<table>
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<tr>
<th>Drawing No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>W-0</td>
<td>CONSTRUCTION METER ON A BLOW-OFF</td>
</tr>
<tr>
<td>W-1</td>
<td>2” BLOW-OFF ASSEMBLY</td>
</tr>
<tr>
<td>W-2</td>
<td>1” AUTOMATIC AIR AND VACUUM VALVE</td>
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<td>W-3</td>
<td>2” AUTOMATIC AIR AND VACUUM VALVE</td>
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<td>W-4</td>
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<td>W-8</td>
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<td>W-9</td>
<td>3”- 4”- 6” METER (BELOW GROUND)</td>
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<td>W-10</td>
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<td>W-11</td>
<td>3”- 4”- 6” METER (ABOVE GROUND)</td>
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<td>W-12</td>
<td>DETECTOR CHECK ASSEMBLY (BELOW GROUND)</td>
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<td>W-13</td>
<td>DETECTOR CHECK ASSEMBLY (ABOVE GROUND)</td>
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<td>W-14</td>
<td>VALVE BOX FRAME AND LID</td>
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<td>W-16</td>
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<td>W-19</td>
<td>BACKFLOW PREVENTION DEVICE 2” AND SMALLER</td>
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<td>W-20</td>
<td>BLANK</td>
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<td>W-21</td>
<td>1” WATER TEST STATION</td>
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<td>W-22</td>
<td>BLANK</td>
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<tr>
<td>W-23</td>
<td>4” &amp; LARGER BLOW-OFF</td>
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<tr>
<td>W-24</td>
<td>3” &amp; LARGER AIR RELEASE ASSEMBLY</td>
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<tr>
<td>W-25</td>
<td>3” &amp; LARGER AIR RELEASE / ENCLOSURE</td>
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<td>W-26</td>
<td>SERVICE CONNECTION FOR STEEL PIPE</td>
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<tr>
<td>W-27</td>
<td>UTILITY CROSSING (STEEL WATER PIPE)</td>
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<tr>
<td>W-28</td>
<td>WATER UTILITY CROSSING (PVC/DIP)</td>
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**SEWER**

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<tr>
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<tr>
<td>S-1</td>
<td>STANDARD MANHOLE</td>
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<tr>
<td>S-2</td>
<td>DROP MANHOLE TYPE “A”</td>
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<tr>
<td>S-3</td>
<td>DROP MANHOLE TYPE “B”</td>
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<td>S-4</td>
<td>STANDARD LATERAL FOR SEWER</td>
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<td>S-5</td>
<td>DEEP-CUT LATERAL CONNECTION</td>
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<td>S-7</td>
<td>PROPERTY LINE CLEAN-OUT</td>
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<td>S-8</td>
<td>DEAD END CLEAN-OUT</td>
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<tr>
<td>S-9</td>
<td>CUT IN FIELD LATERAL</td>
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<tr>
<td>S-10</td>
<td>SUPPORT FOR UNDERCUT V.C. PIPE</td>
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<tr>
<td>S-11</td>
<td>STANDARD CONCRETE CRADLE &amp; EASEMENT</td>
</tr>
<tr>
<td>S-12</td>
<td>TRENCH EXCAVATION &amp; BACKFILL FOR SEWERS</td>
</tr>
<tr>
<td>S-13</td>
<td>INDUSTRIAL WASTE CONTROL MANHOLE</td>
</tr>
</tbody>
</table>
NOTE:
POST WITH EYE HOOKS REQUIRED FOR CHAINING AND LOCKING THE CONSTRUCTION METER.

BACKFLOW PREVENTION DEVICE MAY BE REQUIRED. CHECK WITH DISTRICT BACKFLOW DEPARTMENT PRIOR TO INSTALLATION OF CONSTRUCTION METER.
NOTES:
1) BLOW-OFF SHALL BE LOCATED TO THE SIDE OF THE STREET NEAREST GUTTER/EDGE.
2) ALL JOINTS TO BE 15% SILVER SOLDERED.

ITEM | MATERIAL
--- | ---
1 | SADDLE
2 | BALL CORP STOP
3 | 2" COPPER 45° ELBOW
4 | 2" TYPE K SOFT COPPER TUBING
5 | 2" COPPER 90° ELBOW
6 | NL BALL VALVE McDonald 761098CAPQ 2
7 | 2" X 2 1/2" FIPT X MHT ADAPTER
8 | 2 1/2" HOSE CAP W/CHAIN
9 | 12" OD X 24" SDR-41 CASING, WHITE
10 | FRAME AND COVER
11 | 3000# FORGED STEEL HALF COUPLING (ON STEEL PIPE ONLY)
12 | DIELECTRIC INSULATING BUSHING (ON STEEL ONLY)
13 | MECHANICAL GROUNDING CLAMP PER CURRENT WWD MAT. LIST
14 | ZINC ANODE PER CURRENT WWD MATERIAL LIST

REVISIONS

DATE: JULY 2015

BY:
Drawing No.

VALLECITOS WATER DISTRICT STANDARD DRAWING

2" BLOW-OFF ASSEMBLY
1) ALL PIPE FITTINGS, VALVES, AND COCKS SHALL BE THE SAME SIZE AS AIR VALVE INLET.

2) FOR SERVICE INSTALLATIONS GREATER THAN 150 psig, ALL COMPRESSION FITTINGS LISTED SHALL BE THREADED

3) ALL JOINTS TO BE 15% SILVER SOLDERED.

4) FOR STEEL PIPE CONNECTION SEE DRAWING W-26.

5) ENCLOSURE MAY BE A COLOR OTHER THAN BLUE IN DESIGN DISTRICTS, WITH VWD APPROVAL, ATTACH "VALLECITOS WATER DISTRICT" TAG TO ENCLOSURE.

---

**LEGEND SYMBOL**

**ITEM** | **MATERIAL** | **ITEM** | **MATERIAL**
---|---|---|---
1 | SADDLE | 9 | COMBINATION AIR AND VACUUM VALVE
2 | BALL CORP STOP | 10 | PVC THREADED STREET ELLS W/ BUG SCREEN
3 | 1" TYPE K SOFT COPPER TUBING | 11 | ENCLOSURE PIPELINE PRODUCTS #CAS-1424BL
4 | COPPER x MIPT ADAPTER | 12 | 3000# FORGED STEEL HALF COUPLING (ON STEEL PIPE ONLY)
5 | 1" BRASS 90° STREET ELL, MIPxFIP | 13 | DIELECTRIC INSULATING BUSHING (ON STEEL PIPE ONLY)
6 | BALL VALVE W/ HANDLE, FIPxFIP | 14 | MECHANICAL GROUNDING CLAMP PER CURRENT VWD MAT. LIST
7 | 1" X 18" BRASS NIPPLE, WRAPPED W/ 2" X 10 MIL TAPE | 15 | ZINC ANODE PER CURRENT VWD MATERIAL LIST
8 | 1" X CLOSE BRASS NIPPLE |  |  

---

**REVISIONS**

**DESCRIPTION** | **APPROVED** | **DATE**
---|---|---
SUPPORTS INSIDE CAN | 5-16-08
COPR STOP LOCATION | 7-17-07
ENCLOSURE | 6-9-11
SADDLE | 3-5-12
ADDED ZINC ANODE & CLAMP | 3-27-17

---

**VALLECITOS WATER DISTRICT STANDARD DRAWING**

**DATE:** JULY 2015

**BY:** [Drawn By]
1) ALL PIPE FITTINGS, VALVES, AND COCKS SHALL BE THE SAME SIZE AS AIR VALVE INLET.

2) FOR SERVICE INSTALLATIONS GREATER THAN 150 psi, ALL COMPRESSION FITTINGS LISTED SHALL BE THREADED WITH MIP ADAPTERS PER APPROVED MATERIAL LIST.

3) ALL JOINTS TO BE 15% SILVER SOLDERED.

4) FOR STEEL PIPE CONNECTION SEE DRAWING W-26.

5) ENCLOSURE MAY BE A COLOR OTHER THAN BLUE IN DESIGN DISTRICTS, WITH VWD APPROVAL, ATTACH "VALLECITOS WATER DISTRICT" TAG TO ENCLOSURE.

ITEM | MATERIAL
--- | ---
1 | DOUBLE STRAP BRONZE SADDLE W/ BRONZE STRAPS
2 | BALL CORP STOP
3 | 2" TYPE K SOFT COPPER TUBING
4 | COPPER x MIP ADAPTER
5 | 2" BRASS 90° STREET ELL, MIP x FIP
6 | BALL VALVE W/ HANDLE, FIP x FIP
7 | 2" x 10" BRASS NIPPLE / WRAPPED W/ 2" X 10 MIL TAPE
8 | 2" CLOSE BRASS NIPPLE
9 | COMBINATION AIR & VACUUM VALVE
10 | PVC THREADED STREET ELLS W/ BUG SCREEN
11 | ENCLOSURE PIPELINE PRODUCTS #VCAS-18308L
12 | 3000# FORGED STEEL HALF COUPLING (ON STEEL PIPE ONLY)
13 | DIELECTRIC INSULATING BUSHING (ON STEEL PIPE ONLY)
14 | MECHANICAL GROUNDBING CLAMP PER CURRENT VWD MAT. LIST
15 | ZINC ANODE PER CURRENT VWD MATERIAL LIST

REVISIONS

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<tr>
<th>DESCRIPTION</th>
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<th>DATE</th>
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<tbody>
<tr>
<td>SUPPORTS INSIDE CAN</td>
<td>5-16-06</td>
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<tr>
<td>COR STOP LOCATION</td>
<td>7-17-07</td>
<td></td>
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<tr>
<td>ENCLOSURE</td>
<td>6-9-11</td>
<td></td>
</tr>
<tr>
<td>2&quot; COPPER 90° ELBOW</td>
<td>3-5-12</td>
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</tr>
<tr>
<td>ADDED ZINC ANODE &amp; CLAMP</td>
<td>3-27-17</td>
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VALLECITOS WATER DISTRICT STANDARD DRAWING

DATE: JULY 2015

BY: Drawing No.

2" AUTOMATIC AIR & VACUUM VALVE
COLOR CODING FOR FIRE FLOWS WILL BE REQUIRED PER THE DIRECTION OF LOCAL FIRE JURISDICTION.

SEEN DRAWING No. W-6 FOR LOCATION

PAINT YELLOW PER CURRENT VWD MATERIAL LIST.

POSITION PORTS 45° TO CURB

PAINT 6" WIDE RED STRIPE AROUND BASE OF PRIVATE HYDRANT.

SEE W-14

4" MIN./6" MAX.

REFER TO STD. DRAWING No. W-16 FOR GATE VALVE INSTALLATION

BEARING AREA = 5 sq. ft. (typ)

7/8" Ø HOLES

90°

9 1/2" Ø BOLT CIRCLE

DETAIL

HYDRANT BASE FLANGE HOLES AND HYDRANT ELL FLANGE HOLES

NOTES:
1) ALL NUTS & BOLTS BELOW GROUND SHALL BE COATED WITH NO-OXIDE GREASE AND VISQUEEN.
2) FL x FL VALVES REQUIRE FL x PO ADAPTER PER MATERIALS LIST.

ITEM
1. MAIN SIZE x 6" FLG TEE
2. 6" FL x PO GATE VALVE
3. 6" PO x FL BURY SHORT RADIUS
4. PLATED NUTS AND BOLTS W/ RING GASKET
5. 18" MIN. BREAK-OFF SPOOL, DOUBLE SCORE, W/ 2" x 10 MIL TAPE

ITEM
6. PLATED BREAK-OFF NUTS AND BOLTS W/ RING GASKET
7. FIRE HYDRANT

W-4  VALLECITOS WATER DISTRICT STANDARD DRAWING

DATE: JULY 2015

BY:

REVISIONS
DESCRIPTION
REMOVED ADAPTOR & VALVE STEM
9-3-16
ADDED PAINT NOTES
5-8-17

FIRE HYDRANT INSTALLATION
FIRE HYDRANT LOCATION WHERE SIDEWALK IS CONTIGUOUS WITH CURB

CONCRETE APRON 3'6" X 4'0"

FIRE HYDRANT LOCATION WHERE SIDEWALK IS CONTIGUOUS WITH PROPERTY LINE

CONCRETE APRON 3'6" X 4'0"

FIRE HYDRANT LOCATION WHERE SIDEWALK OCCUPIES FULL WIDTH OF PARKWAY STRIP

NOTE: A 10' MIN. HORIZONTAL OFFSET FROM EDGE OF DRIVEWAY ENTRANCES IS REQUIRED
1) METER SET AND BOX TO BE PLACED BEHIND CURB AND/OR SIDEWALK. IN NO CASE SHALL THE BOX BE PLACED IN THE SIDEWALK WITHOUT DISTRICT PERMISSION. BOX WILL BE REQUIRED IF APPROVED LOCATION IS IN A SIDEWALK OR DRIVEWAY.

2) FOR SERVICE INSTALLATIONS WITH GREATER THAN 175 psi, SEE W-8. ALL COMPRESSION FITTINGS LISTED SHALL BE THREADED WITH MIP ADAPTERS PER APPROVED MATERIAL LIST.

3) NO JOINTS ALLOWED

---

**LEGEND SYMBOL**

**NOTES:**

**ITEM** | **MATERIAL** | **ITEM** | **MATERIAL**
--- | --- | --- | ---
1 | SADDLE | 6 | BALL VALVE W/HANDLE
2 | BALL CORP STOP | 7 | POLYMER CONCRETE METER BOX W/LID
3 | 1" TYPE "K" SOFT COPPER TUBING | 8 | 3000# FORGED STEEL HALF COUPLING (STEEL PIPE ONLY)
4 | BALL ANGLE METER STOP WITH 1 x 3/4 BRASS METER BUSHING FOR 3/4" METER SET | 9 | DIELECTRIC INSULATING BUSHING (STEEL PIPE ONLY)
5 | WATER METER | 10 | ZINC ANODE PER CURRENT VWD MATERIALS LIST
6 | NEW INSTALLATION | 11 | MECHANICAL GROUNDING CLAMP PER CURRENT VWD MAT. LIST

---

**REVISIONS**

**DESCRIPTION** | **APPROVED** | **DATE**
--- | --- | ---
MXU LID, SADDLE | 2 & 3-12
ANO & CLAMP, 1x3/4 BUSHING | 3 & 6-17
CHANGED PSI | 2-28-16

---

**VALLECITOS WATER DISTRICT STANDARD DRAWING**

**WATER SERVICE CONNECTION**

(3/4" AND 1" METER)

**DATE:** JULY 2015

**BY:**
2" WATER SERVICE CONNECTION
(1-1/2" & 2" METER)

NOTES:
1) FOR SERVICE INSTALLATION WITH GREATER THAN 175 psi, SEE W-8.
   ALL COMPRESSION FITTINGS LISTED SHALL BE THREADED WITH MIP ADAPTERS PER APPROVED MATERIAL LIST.

2) ALL JOINTS TO BE 15% SILVER SOLDERED.

3) ALL NUTS AND BOLTS SHALL BE BRONZE.

4) METER SET AND BOX TO BE PLACED BEHIND CURB AND/OR SIDEWALK. IN NO CASE SHALL THE BOX BE PLACED IN THE SIDEWALK WITHOUT DISTRICT PERMISSION. 6" BOX WILL BE REQUIRED IF APPROVED LOCATION IS IN A SIDEWALK OR DRIVEWAY.
3/4" THROUGH 1" METER W/ REGULATOR,
#6B BOX/ LID SEE W-7

11/2" & 2" METER W/ REGULATOR,
ARMORCAST A6001430PCX18
TWO-PIECE LID
OR APPROVED EQUAL.

NOTES:
1) METER SET AND BOX TO BE PLACED BEHIND CURB AND/OR
SIDIWALK. IN NO CASE SHALL THE BOX BE PLACED IN THE
SIDEWALK WITHOUT DISTRICT PERMISSION.

2) TO PROTECT THE DISTRICT METER, A PRESSURE
REGULATOR IS REQUIRED FOR PRESSURES GREATER THAN
175 PSI.

3) NO JOINTS ALLOWED

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<tr>
<th>ITEM</th>
<th>MATERIAL</th>
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<tbody>
<tr>
<td>1</td>
<td>SEE W-6, W-7</td>
</tr>
<tr>
<td>2</td>
<td>SEE W-6, W-7</td>
</tr>
<tr>
<td>3</td>
<td>TYPE &quot;K&quot; SOFT COPPER TUBING, PER APP'D SIZE</td>
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<tr>
<td>4</td>
<td>BALL ANGLE METER STOP FIP X FIP</td>
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<tr>
<td>5</td>
<td>WATER METER</td>
</tr>
<tr>
<td>6</td>
<td>BALL VALVE W/ HANDLE</td>
</tr>
<tr>
<td>7</td>
<td>POLYMER CONCRETE METER BOX W/ LID</td>
</tr>
<tr>
<td>8</td>
<td>STEEL SUPPORT BEAM</td>
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<tr>
<td>9</td>
<td>PIPE CLAMP W/ LUG, COVERED W/ DIELECTRIC COATING</td>
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<tr>
<td>10</td>
<td>PRESSURE REGULATOR, SAME SIZE AS METER</td>
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</table>

DATE: JULY 2015

HIGH PRESSURE (175 PSI+)
WATER METER CONNECTION
(3/4" THROUGH 2" METERS)
NOTES:

1) SUBSTITUTIONS IN MATERIAL SHALL NOT BE MADE WITHOUT APPROVAL OF THE DISTRICT.

2) A MINIMUM OF 24" CLEARANCE SHALL BE MAINTAINED BETWEEN THE VAULT AND ALL FACILITIES.

3) PIPE LENGTH SHALL BE VERIFIED IN THE FIELD.

4) ALL EXPOSED PIPING AND BOLTS SHALL BE PAINTED BLUE PER CURRENT VWD MATERIAL LIST (EXCLUDING METER AND STRAINER).

5) REFER TO STANDARD DRAWINGS FOR INSTALLATION OF BACKFLOW PREVENTION DEVICE.

6) 2" OUTLET SHALL BE (3) PIPE DIAMETERS MINIMUM DOWNSTREAM OF THE WATER METER.

7) BRASS BOLTS AND NUTS SHALL BE USED FOR ALL CONNECTIONS TO THE WATER METER AND STRAINER.

8) ACCESS LADDER REQUIRED IF VAULT IS OVER 3' DEEP PER VWD INSPECTOR'S DIRECTIONS.

2 1/2" OUTLET W/ 2 1/2" X 2" INS. BUSHING (TYP.)

1  TAPPING GATE VALVE & TEE
2  SPOOL, SAME MATERIAL AS MAIN LINE
3  PRE-CAST VAULT
4  D.I.P. SPOOL W/ SADDLE
5  GATE VALVE W/ HANDWHEEL
6  STRAINER
7  TURBINE METER
8  FL x VICTAULIC SPOOL
9  VICTAULIC COUPLING
10 D.I.P. SADDLE
11 VALVE SUPPORT STAND W/ SADDLE TOP
12 2" HARD COPPER OR RED BRASS BY-PASS
13 2" LOCK WING BALL VALVE, BRASS
14 UNION (HARD COPPER OR RED BRASS)
15 FLANGED SPOOL
16 ALUMINUM, SPRING ASSIST LID

REVISIONS

DESCRIPTION                  APPROVED          DATE
REMOVED VALVE STEM EXTENSION  9-9-16

WALLECTOS WATER DISTRICT STANDARD DRAWING

DATE: JULY 2015

BY:

3" – 4" – 6" METER
(BELOW GROUND)
WITH BY-PASS

W-9
NOTES:
1) SUBSTITUTIONS IN MATERIAL SHALL NOT BE MADE WITHOUT APPROVAL OF THE DISTRICT.
2) PIPE LENGTH SHALL BE VERIFIED IN THE FIELD.
3) ALL EXPOSED PIPING AND BOLTS SHALL BE PAINTED BLUE PER CURRENT VWD MATERIAL LIST (EXCLUDING METER AND STRAINER).
4) REFER TO STANDARD DRAWINGS FOR INSTALLATION OF BACKFLOW PREVENTION DEVICE.
5) 2" OUTLET FOR 6" METER INSTALLATION SHALL BE (3) PIPE DIAMETERS MINIMUM DOWNSTREAM OF THE WATER METER.
6) BRASS BOLTS AND NUTS SHALL BE USED FOR ALL CONNECTIONS TO THE WATER METER AND STRAINER.
7) USE 4" PIPING AND VALVES FOR 3" & 4" METERS. USE 6" PIPING AND VALVES FOR 6" METER.

ITEM | MATERIAL | ITEM | MATERIAL
--- | --- | --- | ---
1 | GATE VALVE | 9 | FL x VICTAULIC SPOOL
2 | SPOOL, SAME MATERIAL AS MAIN LINE | 9 | VICTAULIC COUPLING
3 | FL, 90° ELBOW | 10 | D.I.P. SADDLE
4 | D.I.P., SPOOL W/SADDLE | 1 | VALVE SUPPORT STAND W/SADDLE TOP
5 | GATE VALVE W/HANDWHEEL | 2 | 2" HARD COPPER OR RED BRASS BY-PASS
6 | STRAINER | 3 | 2" LOCK WING BALL VALVE, BRASS
7 | TURBINE METER | 14 | UNION (HARD COPPER OR RED BRASS)

REVISIONS
DESCRIPTION | APPROVED | DATE
--- | --- | ---
REMOVED VALVE RISER STEM & REMOVED 45° ELBOW | 9-9-16

VALLECTOS WATER DISTRICT STANDARD DRAWING
DATE: JULY 2015
BY: Drawing No.

3" – 4" – 6" METER
(ABOVE GROUND)
WITH BY-PASS
NOTES:

1) SUBSTITUTIONS IN MATERIAL SHALL NOT BE MADE WITHOUT APPROVAL OF THE DISTRICT.

2) A MINIMUM OF 34" CLEARANCE SHALL BE MAINTAINED BETWEEN THE VAULT AND ALL FACILITIES.

3) PIPE LENGTH SHALL BE VERIFIED IN THE FIELD.

4) ALL EXPOSED PIPING AND BOLTS SHALL BE PAINTED BLUE PER CURRENT VWD MATERIAL LIST (EXCLUDING BY-PASS PLUMBING & METER)

5) BY-PASS METER SHALL BE RAISED TO WITHIN ONE FOOT OF THE VAULT LID.

6) ALL BY-PASS PLUMBING SHALL BE HARD COPPER OR RED BRASS AS SUPPLIED BY MANUFACTURER.

7) CONTACT THE FIRE PROTECTION DISTRICT FOR SPECIFICATIONS ON FIRE DEPARTMENT CONNECTION.

8) ACCESS LADDER REQUIRED FOR VAULTS OVER THREE FEET DEEP.

9) DCDA OR RPDA, PER STATE HEALTH DEPARTMENT APPROVED LIST, DEVICE TO DETERMINED BY TYPE OF HAZARD.

10) BYPASS METER BACKFLOW DEVICE SHALL BE AN INCLUDED COMPONENT OF DETECTOR CHECK ASSEMBLY.

<table>
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<tr>
<th>ITEM</th>
<th>MATERIAL</th>
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<tbody>
<tr>
<td>1</td>
<td>TAPPING VALVE AND SADDLE</td>
</tr>
<tr>
<td>2</td>
<td>PIPE, SAME MATERIAL AS MAIN LINE</td>
</tr>
<tr>
<td>3</td>
<td>PRECAST VAULT</td>
</tr>
<tr>
<td>4</td>
<td>ALUMINUM, TWO PIECE SPRING ASSIST LID</td>
</tr>
<tr>
<td>5</td>
<td>STATE APPROVED DETECTOR CHECK ASSEMBLY</td>
</tr>
<tr>
<td>6</td>
<td>BY-PASS METER W/ BACKFLOW</td>
</tr>
<tr>
<td>7</td>
<td>FLANGED SPOOL, SAME MATERIAL AS MAIN LINE</td>
</tr>
<tr>
<td>8</td>
<td>VALVE &amp; INDICATOR POST PER APPROPRIATE FIRE DIST.</td>
</tr>
<tr>
<td>9</td>
<td>VALVE SUPPORT STAND W/ SADDLE TOP AND 3/8&quot; S.S. &quot;L&quot;</td>
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ANCHOR BOLTS W/ WASHERS

REVISIONS

<table>
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<th>APPROVED</th>
<th>DATE</th>
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<tbody>
<tr>
<td>REMOVED VALVE RISER STEM</td>
<td>9-9-16</td>
<td></td>
</tr>
</tbody>
</table>
NOTES:
1) SUBSTITUTIONS IN MATERIAL SHALL NOT BE MADE WITHOUT APPROVAL OF THE DISTRICT.
2) PIPE LENGTH SHALL BE VERIFIED IN THE FIELD.
3) ALL EXPOSED PIPING AND BOLTS SHALL BE PAINTED BLUE PER CURRENT VWD MATERIAL LIST (EXCLUDING BY-PASS PLUMBING)
4) ALL BY-PASS PLUMBING SHALL BE HARD COPPER OR RED BRASS AS SUPPLIED BY MANUFACTURER.
5) CONTACT THE APPLICABLE FIRE PROTECTION DISTRICT FOR SPECIFICATIONS ON FIRE DEPARTMENT CONNECTION.
6) DCDA OR RPDA, PER STATE HEALTH DEPARTMENT APPROVED LIST, DEVICE TO DETERMINED BY TYPE OF HAZARD.
7) BYPASS METER BACKFLOW DEVICE SHALL BE AN INCLUDED COMPONENT OF DETECTOR CHECK ASSEMBLY.

UPGRADES:
1) RE-CONNECTION TO BE MADE ON STRUCTUALLY SOLID EXISTING PIPE MATERIAL (PER VWD INSPECTOR)
2) ANY VALVES LOCATED BETWEEN THE DISTRICT VALVE AND PUBLIC RIGHT OF WAY TO BE REMOVED.
3) EXISTING FIRE SERVICES LOCATED IN VAULTS MUST BE RELOCATED ABOVE GROUND. VAULT LID AND SIDE WALLS TO BE REMOVED.

ITEM | MATERIAL | ITEM | MATERIAL
--- | --- | --- | ---
1 | TAPPING SLEEVE W GATE VALVE & TEE | 6 | BY-PASS METER W/ BACKFLOW
2 | SPOOL, SAME MATERIAL AS MAINLINE | 7 | 3/8" S.S. "L" ANCHOR BOLTS W/ WASHERS
3 | FL. 90° ELBOW | | |
4 | VALVE SUPPORT STAND W/ SADDLE TOP | | |
5 | STATE APPROVED DETECTOR CHECK ASSEMBLY | | |

REVISIONS

DESCRIPTION | APPROVED | DATE
--- | --- | ---
REMOVED VALVE RISER STEM & REMOVED 45° ELBOW | 9-9-16
ADDED UPGRADE NOTES | 10-21-19

VALLECITOS WATER DISTRICT STANDARD DRAWING
DATE: JULY 2015
BY: 
DRAWING NO. W-13

DETECTOR CHECK ASSEMBLY
(ABOVE GROUND)
FIG. 1

FIG. 2

FIG. 3

(HORIZONTAL OR VERTICAL BEND)

FIG. 4

(VERTICAL BEND ONLY)

NOTES:

1) CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED IN ALL PIPELINES AT THE LOCATIONS SHOWN HEREON WHERE THE RESPECTIVE FITTINGS AND PLUGS ARE INSTALLED.

2) IN REBAR LOOPS SHALL EXTEND TO THE DEPTH OR WIDTH OF BLOCK. WRAP EXPOSED METAL WITH 10 MIL TAPE PRIOR TO INSTALLATION.

3) ALL THRUST BLOCKS TO BE FORMED WITH SAND BAGS.

4) FOR CLASS 200 PIPE INCREASE AREAS AND VOLUMES BY 33%.

MINIMUMS—SPECIAL DESIGN MAY BE REQUIRED

<table>
<thead>
<tr>
<th>SIZE OF PIPE</th>
<th>BEARING AREA IN SQUARE FEET</th>
<th>CUBIC FEET</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FIG 1</td>
<td>FIG 2</td>
</tr>
<tr>
<td></td>
<td>CL. 150</td>
<td>CL. 150</td>
</tr>
<tr>
<td>4&quot;</td>
<td>3</td>
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<td>6&quot;</td>
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<td>12&quot;</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>14&quot;</td>
<td>28</td>
<td>28</td>
</tr>
</tbody>
</table>

VALLECITOS WATER DISTRICT STANDARD DRAWING

THRUSt AND ANCHOR BLOCKS

DATE: JAN. 04

BY: 

Drawing No. W-15
**END CAP ASSEMBLY**

**PLAN**

1) NUTS & BOLTS TO BE COATED WITH NO-OXIDE GREASE AND VISQUEEN.
2) GATE VALVES TO COMPLY WITH VALLECITOS WATER DISTRICT SPECIFICATIONS.

**ELEVATION**

- **#4 REBAR LOOP**
- **WRAP EXPOSED METAL W/ 10 MIL. TAPE PRIOR TO INSTALLATION.**

**NOTES:**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MATERIAL</th>
<th>ITEM</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VALVE BOX AND COVER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>8&quot; GL. 100 SDR41-WHITE (PIP)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**REVISIONS**

- **DESCRIPTION**
- **APPROVED**
- **DATE**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>APPROVED</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>REMOVED VALVE RISER STEM</td>
<td>9-9-16</td>
<td></td>
</tr>
</tbody>
</table>
SAND/D.G. TO BE PLACED IN 6" LAYERS THROUGHOUT PIPE ZONE & THOROUGHLY COMPACTED BEFORE ANY ADDITIONAL BACKFILL SHALL BE PLACED.

NOTES:
1) LOCATION TAPE TO BE 12" ABOVE PIPE
   REFER TO MATERIAL LIST.
WARNING IDENTIFICATION TAPE AND TRACER WIRE INSTALLATION FOR FIRE HYDRANTS

VALLECITOS WATER DISTRICT STANDARD DRAWING

DATE: July 11

BY: W-18

ITEM | MATERIAL | ITEM | MATERIAL
--- | --- | --- | ---
1 | 10 GA. INSULATED TRACER WIRE (PVC ???) | 2 | WARNING TAPE
3 | TAPE |

LEGEND

F.H.
STA._____

WATER MAIN
WARNING TAPE
CURB
PROPERTY LINE
SIDEWALK
TRACER WIRE, NO SPLICES (USE SEPERATE WIRES)
TRACER WIRE TEST BOX

REVISIONS
DESCRIPTION | APPROVED | DATE
--- | --- | ---

SNAKE PIT TRACER BOX

6"
NOTES:

1) ALL INSTALLATIONS SHALL BE ABOVE GROUND.
   THE BACK FLOW DEVICE SHALL BE NO MORE THAN 1/2"
   GREATER THAN THE METER SIZE.

2) ALL BACKFLOW PREVENTION DEVICES SHALL BE AS CLOSE TO
   THE WATER METER AS POSSIBLE.

3) THE BACKFLOW PREVENTION DEVICE SHALL BE SELECTED FROM
   APPROVED STATE OF CALIFORNIA-DEPARTMENT OF HEALTH
   SERVICES LIST ON FILE WITH THE DISTRICT.

4) NO CONNECTIONS SHALL BE MADE BETWEEN THE WATER METER
   AND THE BACKFLOW PREVENTION DEVICE.

5) TYPE OF BACKFLOW PREVENTION DEVICE SHALL BE BASED ON
   THE DEGREE OF HAZARD.

6) APPROPRIATE TEST COCKS SHALL BE IN PLACE AT ALL TIMES.

7) DISTRICT SHALL HAVE ACCESS TO BACKFLOW PREVENTION DEVICE
   AT ALL TIMES.

8) CONCRETE PAD SHALL BE A MINIMUM OF 18" WIDE.

9) REFER TO STANDARD DRAWINGS FOR INSTALLATION OF WATER
   METER AND SERVICE.

10) PIPING MATERIAL SHALL BE RED BRASS, OR "K", OR "L",
    COPPER PIPING.

11) ALTHOUGH THE DISTRICT REQUIRES THE USE OF RED BRASS
    OR RIGID COPPER PIPING, AGRICULTURAL SERVICES, IN NON-TRAFFIC
    AREAS, MAY USE SCHEDULE 80 UV RESISTANT PVC PIPING MATERIALS
    WITH PRIOR APPROVAL OF THE DISTRICT.

 ITEM   MATERIAL                          ITEM   MATERIAL
-------  --------------------------------  -------  --------------------------------
  (1)    BACKFLOW PREVENTION DEVICE      (4)    NIPPLE, VARIES IN LENGTH
  (2)    90° ELBOW                      (5)    TEST COCK (4 REQUIRED)
  (3)    THREADED UNION RECOMMENDED, BUT NOT REQUIRED
         (FOR REMOVAL AND REPAIR OF DEVICE)
  (6)    RED BRASS OR RIGID COPPER

VALLECITOS WATER DISTRICT STANDARD DRAWING

BACKFLOW PREVENTION DEVICE
2" AND SMALLER

DATE: JULY 2015
BY:
DRAWING NO. W-19
NOTE:
1) FOR SERVICE INSTALLATIONS WITH GREATER THAN 150 psi, ALL COMPRESSION FITTINGS LISTED SHALL BE THREADED WITH MIP ADAPTORS PER APPROVED MATERIAL LIST.
NOTE:
1) PIPE MATERIAL SHALL BE SAME AS MAIN.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WATER MAIN W/ FLG'D OUTLET.</td>
</tr>
<tr>
<td>2</td>
<td>GATE VALVE, FLG'D.</td>
</tr>
<tr>
<td>3</td>
<td>PIPE SPOOL PIECE, FL x FL.</td>
</tr>
<tr>
<td>4</td>
<td>90 DEGREE FL, ELBOW</td>
</tr>
<tr>
<td>5</td>
<td>RISER, FL x FL.</td>
</tr>
<tr>
<td>6</td>
<td>90° ELBOW W/ MIP THREADS &amp; CAP</td>
</tr>
<tr>
<td>7</td>
<td>THRUST BLOCK, PER VWD DWG W-15.</td>
</tr>
</tbody>
</table>

VALLECITOS WATER DISTRICT STANDARD DRAWING

DATE: JULY 2015

REVISIONS

DESCRIPTION | APPROVED | DATE
---|---|---
REMOVED VALVE RISER STEM | 9-9-16 |
NOTE:
1) PIPE MATERIAL SHALL BE SAME AS MAIN.
REMOVE AND REPLACE COATING AND LINING AS NECESSARY TO INSTALL SERVICE CONNECTION

MAIN LINE

HEAVY DUTY 3000# THD
HALF STEEL COUPLING WITH THREADED 316L STAINLESS STEEL

3/16" x 6" DIA. STEEL BACKING PLATE

BALL CORPORATION STOP

FULL CIRCLE

FIELD WELD SERVICE CONN.

FILLET WELD
NOTES:
1) ALL FLANGES TO BE WELDED IN FIELD.
   PER A.W.W.A. C-207.
2) ALL STEEL PIPE, FIELD WELDING'
   AND REPAIRS, SHALL BE
   PER A.W.W.A. C-255 & C-206.
3) INSTALL HANDHOLE W/ PLUG MIN. OF 6''
   FROM EACH WELDED JOINT, DETAIL "A"
NOTES:

1) ALL PIPE JOINTS AT 45-DEGREE BENDS SHALL BE RESTRAINED

2) THE THRUST AND ANCHOR BLOCKS SHALL BE PER VWD STD. DWG. W-15.

3) DIP INSTALLATION SHALL BE DOUBLE ENCASED POLYETHYLENE WRAPPING PER VWD STANDARDS SECTION 15058 PART 3 C4

4) AN AUTOMATIC AIR AND VACUUM VALVE SHALL BE INSTALLED ON THE HIGH POINT OF THE OFFSET AS SPECIFIED ON THE PLAN OR DIRECTED BY VWD INSPECTOR.

5) A BLOW OFF MAY BE REQUIRED AT THE LOW POINT OF THE OFFSET AS SPECIFIED ON THE PLAN OR DIRECTED BY VWD INSPECTOR.

6) IF BOTTOM LENGTH EXCEEDS 18 FEET, CONNECT PIPE SECTIONS WITH MECHANICAL JOINT RETAINING GLAND.
NOTES

1) ALL PIPE AND FITTINGS IN DROP CONNECTION SHALL BE THE SAME SIZE AND MATERIAL AS MAIN LINE UNLESS OTHERWISE SHOWN ON THE PLANS.

2) BITUMASTIC SHALL BE USED ON ALL MANHOLE JOINTS, EXCLUDING GRADE RINGS.

3) MANHOLES SHALL BE 60" DIAMETER (MIN.) FOR SEWER MAIN 15" AND LARGER.

4) MANHOLES 80" DIAMETER AND LARGER SHALL HAVE A PROTECTIVE LINING SYSTEM. PROTECTIVE LINING SHALL BE PER CURRENT VWD STANDARD SPECIFICATIONS.

NOTE:
SHEAR COUPLINGS ARE REQUIRED WHEN BELLED ENDS ARE NOT USED.

MINIMUM DIMENSIONS:
(All Manhole Types)

<table>
<thead>
<tr>
<th>D'</th>
<th>F'</th>
<th>G'</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; to 8&quot;</td>
<td>6&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>10&quot; to 15&quot;</td>
<td>6&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>18&quot; to 27&quot;</td>
<td>12&quot;</td>
<td>4&quot;</td>
</tr>
</tbody>
</table>

DIMENSIONS 'F' & 'G' SHALL BE USED FOR 'D' (INSIDE DIA. OF PIPE) OF THE LARGEST PIPE IN THE MANHOLE.
CLEAN & ROUGHEN EXT. SURFACE OF CONC. & APPLY NEAT CEMENT PASTE PRIOR TO POURING SUPPORT CONCRETE.

NOTES:
1) ALL PIPE AND FITTINGS IN DROP CONNECTION SHALL BE THE SAME SIZE AND MATERIAL AS MAIN LINE UNLESS OTHERWISE SHOWN ON THE PLANS.

2) DROP SECTION CHANNEL IN MANHOLE SHALL BE FORMED FOR 8" DIAMETER PIPE UNLESS OTHERWISE SHOWN ON PLANS.

3) CHANNEL INVERTS SHALL BE TRUE TO GRADES AND ALIGNMENT AND FINISHED SMOOTH.

4) SHEAR COUPLINGS ARE REQUIRED WHEN BELLED ENDS ARE NOT USED.

5) BITUMASTIC SHALL BE USED ON ALL MANHOLE JOINTS, EXCLUDING GRADE RINGS.

SECTION D-D

SECTION E-E

MINIMUM DIMENSIONS:
(All Manhole Types)

<table>
<thead>
<tr>
<th>D</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; to 8&quot;</td>
<td>6&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>10&quot; to 15&quot;</td>
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<tr>
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<td>12&quot;</td>
<td>4&quot;</td>
</tr>
</tbody>
</table>

DIMENSIONS "F" & "G" SHALL BE USED FOR "D" (INSIDE DIA. OF PIPE) OF THE LARGEST PIPE IN THE MANHOLE.

TYPE "A" DROP MANHOLE TO BE USED ONLY UPON APPROVAL OF DISTRICT ENGINEER.

REVISIONS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>APPROVED</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>REMOVE STEPS &amp; REVISE &quot;F&quot; &amp; &quot;G&quot;</td>
<td>7-24-07</td>
<td></td>
</tr>
<tr>
<td>ROTATED SECTION</td>
<td>10-27-11</td>
<td></td>
</tr>
<tr>
<td>ADDED APPROVAL NOTE</td>
<td>3-27-17</td>
<td></td>
</tr>
</tbody>
</table>

VALLECITOS WATER DISTRICT STANDARD DRAWING

DATE: JULY 2015

BY: Drawing No. S-2
NOTES:
1) ALL PIPE AND FITTINGS IN DROP CONNECTION SHALL BE THE SAME SIZE AND MATERIAL AS MAIN LINE UNLESS OTHERWISE SHOWN ON THE PLANS.

2) DROP SECTION CHANNEL IN MANHOLE SHALL BE FORMED FOR 8" DIAMETER PIPE UNLESS OTHERWISE SHOWN ON PLANS.

3) CHANNEL INVERTS SHALL BE TRUE TO GRADES AND ALIGNMENT AND FINISHED SMOOTH.

4) IF DISTANCE C IS GREATER THAN 4'-0" USE MANHOLE TYPE 'A'.

5) SHEAR COUPLINGS ARE REQUIRED WHEN BIELLED ENDS ARE NOT USED.

6) BITSUMASTIC SHALL BE USED ON ALL MANHOLE JOINTS, EXCLUDING GRADE RINGS.

SECTION G-G

3 PIECE C.I. MANHOLE FRAME & COVER WITH VALLECITOS WATER DISTRICT, SEWER IN RAISED LETTERS.

EXIST, PAVED ROADWAY

EXIST, UNPAVED ROADWAY

GROUT TO GRADE (3" MAX.)

36" I.D. SHAFT SECTION

48" I.D. SHAFT SECTION

VARYES (30") MIN

ECCENTRIC CONE

SECTION H-H

MINIMUM DIMENSIONS:
(All Manhole Types)

<table>
<thead>
<tr>
<th>D'</th>
<th>T&quot;</th>
<th>G&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; to 8&quot;</td>
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<tr>
<td>18&quot; to 27&quot;</td>
<td>12&quot;</td>
<td>4&quot;</td>
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DIMENSIONS T" & G" SHALL BE USED FOR D' (INSIDE DIA. OF PIPE) OF THE LARGEST PIPE IN THE MANHOLE.

TYPE "B" DROP MANHOLE TO BE USED ONLY UPON APPROVAL OF DISTRICT ENGINEER.

VALLECITOS WATER DISTRICT STANDARD DRAWING

DATE: JAN, 04

BY:

DROP MANHOLE TYPE "B"

REVISIONS

DESCRIPTION | APPROVED | DATE
---|---|---
REMOVE STEPS & REVISE "F" & "G" | 7-24-07
ROTATED SECTION | 10-27-11

Drawing No. S-3
NOTES:
1) FINAL APPROVAL WILL NOT BE GRANTED UNLESS THE LETTER "S" IS STAMPED ON CURB AS NOTED ABOVE, AT CORRECT STATION.

2) FINAL APPROVAL WILL NOT BE GRANTED UNLESS THE SEWER LATERALS COMPLY FULLY WITH THIS DRAWING.

3) ALL LATERALS MUST HAVE STATION AND INVERT ELEV, AT PROPERTY LINE NOTED ON "AS-BUILT" DRAWING, OR FINAL APPROVAL WILL NOT BE GRANTED.

4) PROPERTY LINE CLEAN OUTS WILL BE REQUIRED ON ALL LATERALS IF WATER IS NOT SERVED BY THE V.W.O.

5) CONCRETE SUPPORT OF SEWER LATERALS, REQUIRED ON HOT TAPS ONLY.

6) "A" DIM. SHALL BE 5.0 FT. UNLESS NOTED OTHERWISE ON THE PLANS. FOR LATERALS WHERE COVER IS LESS THAN 4 FT. CONC. ENCASEMENT WILL BE USE.
DEEP CUT LATERALS TO BE USED ONLY UPON APPROVAL OF DISTRICT ENGINEER.

<table>
<thead>
<tr>
<th>NOTES:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) WHEN &quot;A&quot; DIMEN. IS 5 FT. OR GREATER, CONTRACTOR MAY ELECT TO USE DEEP-CUT LATERAL WHERE THE SYMBOL &quot;D&quot; IS SHOWN FOR THE INV. ELEV. OF THE LATERAL AT THE PROP. LINE. &quot;A&quot; SHALL BE CALCULATED BY THE FORMULA: &quot;A&quot; = DIA. OF MAIN - 0.2 x &quot;L&quot; (ALL DIMEN. IN FEET.)</td>
</tr>
<tr>
<td>2) &quot;B&quot; DIMEN. SHALL BE 5.0 FT. UNLESS NOTED OTHERWISE ON THE PLANS. FOR LATERALS WHERE COVER IS LESS THAN 4 FT. CONC. ENCASEMENT WILL BE USED.</td>
</tr>
<tr>
<td>3) &quot;D&quot; = DIA. OF SEWER LATERAL, SHALL BE 4&quot; UNLESS NOTED OTHERWISE ON THE PLANS.</td>
</tr>
<tr>
<td>4) &quot;L&quot; = LENGTH OF LATERAL-TO BE DETERMINED IN THE FIELD.</td>
</tr>
<tr>
<td>5) IN NO INSTANCE SHALL THE WYE CONNECTION OR ANY PART OF THE WYE FITTING BE PLACED UPSTREAM OF THE LATERAL AS STAKED IN THE FIELD.</td>
</tr>
<tr>
<td>6) MARKER POSTS SHALL BE AT PROPERTY LINE 3' ABOVE GROUND, IN A PLUMB LINE. EXPOSED PORTION OF STAKE TO BE PAINTED WHITE.</td>
</tr>
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VALLECITOS WATER DISTRICT STANDARD DRAWING

DEEP-CUT LATERAL CONNECTION

DATE: JAN. 04

BY:

Drawing No. S-5
NOTES:

1.) THE UPPER END OF THE CHIMNEY PIPE SHALL BE 8' BELOW THE
GRADE OF THE LOWER CURB; UNLESS OTHERWISE SPECIFIED.

2.) WHERE ONE OR TWO HOUSES CONNECTIONS ARE TO BE JOINED TO THE
CHIMNEY PIPE, USE A SINGLE "Y" BRANCH, WHERE THREE HOUSE CONNECT-
ATIONS ARE TO BE JOINED, USE A DOUBLE "Y" BRANCH.

3.) WHERE THE CHIMNEY PIPE IS TO BE USED FOR A SINGLE HOUSE
CONNECTION FACE TOWARD PROPERTY TO BE SERVED; WHERE USE FOR
HOUSE CONNECTIONS ON BOTH SIDES OF THE SEWER, THE HOUSE
CONNECTION ON THE RIGHT SIDE OF THE SEWER (LOOKING UP GRADE) SHALL
BE CONNECTED TO THE "Y" BRANCH BY A 90° BEND AND THE HOUSE
CONNECTION ON THE LEFT SIDE SHALL BE CONNECTED TO THE UPPER END
OF THE CHIMNEY BY 4" OR 8" 1/4 BEND, UNLESS OTHERWISE SPECIFIED.

4.) CHIMNEY PIPE USE ONLY UPON APPROVAL OF THE DISTRICT ENGINEER.
NOTE:
1) CLEAN-OUT PIPE MUST BE THE SAME DIAMETER AS HOUSE LINE.
2) FINAL APPROVAL WILL NOT BE GRANTED UNLESS LATERALS COMPLY FULLY WITH THIS DRAWING.
3) REQUIRED WITHIN IMPROVEMENT DISTRICT "A" OR UPON DIRECTION OF DISTRICT ENGINEER.
NOTE:
THE SEWER MAIN SHALL BE LAID FOR THE FULL LENGTH AND DEPTH SHOWN ON THE PLANS AND PROFILE TO THE POINT MARKED DEAD END (D.E.)

NOTE:
THE TRENCH FOR A DEAD END SHALL BE EXCAVATED ONLY TO SUBGRADE, WHICH IS THE BOTTOM OF THE SLOPING PIPE AND FITTINGS. SHOULD THE EXCAVATION FOR ANY REASON BE CARRIED BELOW SUCH A GRADE, IT SHALL BE REFILLED TO GRADE WITH TYPE 'A' CRUSHED ROCK WHICH SHALL BE TAMPERED FIRM AND UNYELDING. SHOULD A FIRM AND UNYELDING FOUNDATION BE UNOBTAINABLE BY THIS METHOD, A PARTIAL CONCRETE CRADLE SHALL BE EMPLOYED.
NOTE:
WHERE TRENCH WIDTH EXCEEDS THE WIDTH SPECIFIED IN THE SPECIFICATIONS, CONTRACTOR SHALL FURNISH AND PLACE AT HIS OWN EXPENSE, A CRADLE AS SHOWN ABOVE.
NOTE: MIRAFI TO BE USED ON MAINLINE TRENCH AND SEWER LATERALS.
1) CONSTRUCT CONTROL MANHOLE ON STRAIGHT RUN OF SEWER PIPE. FLOW SHALL BE STRAIGHT THROUGH AS SHOWN.

2) BOTTOM OF V-NOTCH MUST ALWAYS BE ABOVE MAXIMUM POSSIBLE LEVEL IN DOWNSTREAM CHANNEL TO PREVENT SUBMERGED DISCHARGE CONDITIONS.

3) THE CONTROL MANHOLE SHALL BE A MINIMUM SIZE OF 4 FOOT SQUARE INSIDE OR 4 FOOT INSIDE DIAMETER AND CONSTRUCTED OF CONCRETE BLOCK, BRICK, STANDARD MANHOLE RINGS OR POURRED CONCRETE.

4) CONTROL MANHOLE PLANS ARE TO BE SUBMITTED TO THE ENGINEERING DEPARTMENT OF THE VALLECITOS WATER DISTRICT FOR APPROVAL.

5) FOR 6" OR 8" LINES ONLY.

6) FOR FLOWS OF 10,000 TO 100,000 PER DAY, FOR FLOWS OTHER THAN THOSE SPECIFIED, CONTACT THE DISTRICT.