Mains, Hydrants & Fire Services
SJWC’S CONTRACTOR IS RESPONSIBLE FOR FLUSHING THE FIRE SERVICE LINE IMMEDIATELY AFTER INSTALLATION.

TEMPORARY BLOW-OFF DETAIL

VALVE BOX & PCC COLLAR
PER STD. DWG. MAIN-VB

8" PVC PIPE

VALVE F x MJ

MAIN CONNECTION
(SEE SPECIFIC PROJECT)

FLANGE INSULATING KIT

FINISHED GRADE
OR SIDEWALK

PROPERTY LINE

CONSUMER’S LINE
CAP W/ 2" TAP MJ & MEGALUG
DICL PIPE
(RESTRAINED)

TEMPORARY BLOW-OFF
(SEE DETAIL ON RIGHT)

2" WHEEL VALVE
F.I.P. x F.I.P.

2" NIPPLE STD. GALV.
(LENGTH VARIES)

2" ELL 90° STREET
STD. GALV.

CONSUMER’S FUTURE LINE
CAP W/ 2" TAP MJ & MEGALUG
(REMOVAL & DISPOSAL OF
CAP & B.O. FITTINGS BY
DEVELOPER’S CONTRACTOR)

SAN JOSE WATER COMPANY
PRIVATE FIRE PROTECTION SERVICE

N. TRINH
9/30/2018

REF. NO.
ENG. NO.

SCALE
NONE

FULL PRESIDENT OF ENGINEERING
STANDARD 1/2" AIR VALVE
INSTALLATION (IN ENCLOSURE)

TAPPING SCHEDULE

<table>
<thead>
<tr>
<th>PIPE</th>
<th>CONNECTION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEEL</td>
<td>* SDL, SSCC, (THRU 10 3/4&quot;)</td>
<td>NOM. DIA. X 3/4&quot;</td>
</tr>
<tr>
<td></td>
<td>** WELD CPLG (ALL OTHERS)</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>AC</td>
<td>* SDL, SSCC, (4&quot;)</td>
<td>NOM. DIA. X 3/4&quot;</td>
</tr>
<tr>
<td></td>
<td>** DIR TAP, STOP CORP (6&quot; &amp; OVER)</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>CI &amp; DLC</td>
<td>* DIRECT TAP, STOP CORP</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>PVC</td>
<td>** SDL, PVC</td>
<td>NOM. DIA. X 3/4&quot;</td>
</tr>
</tbody>
</table>

NOTE:
CONCRETE CAP & SAND BACKFILL TO BE PLACED ONLY IF:
A. DISTANCE FROM TOP OF PIPE TO SUBGRADE IS 18" OR LESS.
B. DISTANCE FROM TOP OF PIPE TO FINISHED GRADE IS LESS THAN 3'.

BLOW OFF MAIN BEFORE INSTALLING AIR VALVE

SEE MAIN-AVpavt FOR INSTALLATION OF AIR VALVE IN PAVEMENT

REFER TO MATERIAL SPECIFICATIONS LIST FOR MAKES & MODEL NUMBERS

SAN JOSE WATER COMPANY

STANDARD 1/2" AIR VALVE INSTALLATION (IN ENCLOSURE)
STANDARD 1/2" AIR VALVE
INSTALLATION (IN PAVEMENT)

** TAPPING SCHEDULE **

<table>
<thead>
<tr>
<th>PIPE</th>
<th>PIPE CONNECTION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEEL</td>
<td>* SDL. SSCC. (THRU 10 3/4&quot;) ** WELD CPLG (ALL OTHERS)</td>
<td>NOM. DIA. X 3/4&quot; 3/4&quot;</td>
</tr>
<tr>
<td>AC &amp; CI</td>
<td>* SDL. SSCC. (4&quot;)</td>
<td>NOM. DIA. X 3/4&quot; 3/4&quot;</td>
</tr>
<tr>
<td>DICL</td>
<td>* DIRECT TAP, CORP STOP</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>PVC</td>
<td>** SDL. PVC</td>
<td>NOM. DIA. X 3/4&quot;</td>
</tr>
</tbody>
</table>

** AIR VALVE & CHECK VALVE MAKES **

<table>
<thead>
<tr>
<th>A.V.</th>
<th>C.V. (LOWER)</th>
<th>C.V. (UPPER)</th>
</tr>
</thead>
<tbody>
<tr>
<td>APCO-50</td>
<td>KITZ WAFFER or APOLLO BALL</td>
<td>KITZ WAFFER, APOLLO BALL or TIDEFLEX DUCKBILL</td>
</tr>
<tr>
<td>CRISPIN MIDGET</td>
<td>KITZ WAFFER or APOLLO BALL</td>
<td>KITZ WAFFER, APOLLO BALL or TIDEFLEX DUCKBILL</td>
</tr>
</tbody>
</table>

** NOTES: **

1) KITZ WAFFER C.V. MUST BE MOUNTED VERTICALLY
2) BLOW OFF MAIN BEFORE INSTALLING AIR VALVE
3) CORP AND ANGLE STOP TO BE LEFT OPEN
4) MSN = METER SWIVEL NUT
5) REFER TO MATERIAL SPECIFICATIONS LIST FOR COMPLETE LIST OF MAKE & MODEL NUMBERS.

** SAN JOSE WATER COMPANY **

** STANDARD 1/2" AIR VALVE INSTALLATION (IN PAVEMENT) **

** CRISPIN MIDGET FITTINGS **
NOTE:
WRAP ALL PIPE W/2 LAYERS
PROTECTIVE WRAP
SEE MAIN-Avag FOR AIR VALVE ENCLOSURE BOX INSTALLATION
STANDARD 4" BLOWOFF INSTALLATION

CAMLOCK & RISER MUST BE CENTERED IN BOX & ORIENTED AS SHOWN

NOTES:
* MIN. DIMENSION TO AVOID 2 CONCRETE COLLARS. NOTE THAT THIS LENGTH VARIES DEPENDENT ON LOCATION OF 4" BLOW OFF.

SAN JOSE WATER COMPANY
STANDARD 4" BLOWOFF INSTALLATION

Effective 10/09/2018
INSTALL CONCRETE CAP WHERE MAIN IS LESS THAN 30" COVER 

CONCRETE CAP

4 X 4 - W2.9 X W2.9 WELDED WIRE FABRIC

EXISTING GRADE (L/S OR PAVEMENT)

IMPORT BACKFILL OR COMPACTED FILL

SECTIONAL VIEW
PENTAGON NUT
FOR LEFT-HAND OPEN GATE VALVE

TOP VIEW

NOTES:
DEPTH & DIAMETER OF SKIRT BELOW BASE OF NUT IS NOT CRITICAL

REMOVE SQUARE GATE VALVE WRENCH NUT FROM VALVE STEM AND REPLACE W/PENTAGON NUT.

MATERIAL: CAST IRON OR DUCTILE IRON

SIDE VIEW

SAN JOSE WATER COMPANY

PENTAGON NUT
FOR LEFT-HAND OPEN GATE VALVE

Effective 09/03/2013
EXISTING RESTRAINED DICL PIPE

PROPOSED RESTRAINED DICL PIPE

SOLID SLEEVE MJ (2 PLCS) W/MEGALUGS

CUT & REMOVE DAMAGED SECTION OF EXISTING RESTRAINED DICL PIPE

SAN JOSE WATER COMPANY

RESTRAINED PIPE REPAIR

Effective 09/03/2013
RESTRAINED PIPE MARKER TAPE AND TRACER WIRE DETAIL

MARKER TAPE
(WATER - RESTRAINED JOINTS)
OR (RECYCLED WATER - RESTRAINED JOINTS)
ATTACHED TO TOP OF PIPE

COPPER TRACER WIRE
(SEE SJWC STANDARD DRAWING MAIN-TW)

RESTRAINED PIPE

Effective 2/11/15

SAN JOSE WATER COMPANY

RESTRANDED PIPE MARKING

DATE: 2/3/15

J. GUEVARA

ENGINEERING / DSN

REVISION

SCALE: NONE

SCHEDULE DRP

MAIN-RPM

Effective 2/11/15
TRACER WIRE INSTALLATION

1. TRACER WIRE WITH CUT IN TEE ON EXISTING MAIN
   - Use TRACER WIRE WITH MAIN INSTALLATION AND TERMINAL END DETAIL.
   - Connect TRACER WIRE TO NEW WATER MAIN IN A "Y" DIRECTION.

2. TRACER WIRE WITH MAIN INSTALLATION AT ELBOWS AND TIE-IN LOCATIONS
   - Use TRACER WIRE WITH MAIN INSTALLATION.
   - Install Aqua-Seat and Terminal End Details.
   - Use 7/16" BLACK ELECTRICAL TAPE.

3. TRACER WIRE AT A HYDRANT
   - Use TRACER WIRE INSTALLATION.
   - Feed TRACER WIRE INTO HYDRANT BURSTのご予感

4. TRACER WIRE WITH BLOWOFF INSTALLATION
   - Use TRACER WIRE INSTALLATION.
   - Install Aqua-Seat and TRACER WIRE WITH BLOWOFF INSTALLATION.
   - Use CONTINUOUS TRACER WIRE ALONG MAIN

5. TRACER WIRE WITH FIRE SERVICE INSTALLATION
   - Use TRACER WIRE INSTALLATION.
   - Install TRACER WIRE WITH FIRE SERVICE INSTALLATION.
   - Use CONTINUOUS TRACER WIRE ALONG MAIN

6. SERVICE TRACER WIRE AT WATER METER
   - Use SERVICE TRACER WIRE AT WATER METER.
   - Connect TRACER WIRE TO NEW WATER MAIN IN A "Y" DIRECTION.

7. SERVICE LINE TRACER WIRE TIE-IN AT MAIN
   - Use SERVICE TRACER WIRE AT WATER METER.
   - Connect TRACER WIRE TO NEW WATER MAIN IN A "Y" DIRECTION.

8. SPLIT SERVICES
   - Use SPLIT SERVICES.
   - Connect TRACER WIRE TO NEW WATER MAIN IN A "Y" DIRECTION.

GENERAL NOTES:
1. ALL TRACER WIRES SHALL BE 12 AWG SOLID COPPER WIRE WITH 45 MIL HMW PE INSULATION (MIN.) RATED FOR DIRECT BURIAL AS MANUFACTURED BY AGAVE WIRE LTD.

2. TRACER WIRE SHALL BE INSTALLED ABOVE AND ALONG ALL WATER MAINS, SECURELY FASTENED TO TOP OF PIPELINE WITH TAPE.

3. TRACER WIRE SHALL TERMINATE IN LOCATION AS SHOWN AND AT METER BOXES, BLOWOFF BOXES, FIRE SERVICES HYDRANTS, AND DEDICATED VALVE BOXES.

4. CONTRACTOR SHALL TEST TO CONFIRM CONTINUITY IN ALL TRACER WIRES. IF A SEGMENT OF TRACER WIRE IS FOUND TO BE DISCONTINUOUS, THE CONTRACTOR SHALL REPAIR OR REPLACE THE FAILED SEGMENT OF TRACER WIRE.

5. THE LOCATION OF THE TRACER WIRE AND LEADS SHALL BE MARKED ON THE RECORD DRAWINGS WITH THE LEAD LOCATION CLEARLY MARKED IN THE FIELD.
SOURCE OF WATER:
FOR CONNECTION TO A NEARBY FIRE HYDRANT,
SJWC CONTRACTOR SHALL OBTAIN PORTABLE
METER AND DOUBLE CHECK VALVE ASSEMBLY
FROM SJWC STORES DEPARTMENT.

APPLICANT SHALL LEAVE 10' MINIMUM
SPACE BETWEEN PIPE ENDS TO ALLOW
FOR THE METER INSTALLATION AND/OR
TIE-IN BY SJWC.

APPLICANT'S MAIN

SOURCE OF WATER: FOR CONNECTION TO A NEARBY FIRE HYDRANT, SJWC CONTRACTOR SHALL OBTAIN PORTABLE METER AND DOUBLE CHECK VALVE ASSEMBLY FROM SJWC STORES DEPARTMENT.

APPROVED DOUBLE CHECK VALVE ASSEMBLY (THREADED)

FOR END CAP, SEE BLOCKING AND BLOW OFF DETAIL ON INSTALLATION DRAWING.

UPON ACCEPTANCE OF THE APPLICANT'S MAINS, SJWC WILL INSTALL THE FINAL CONNECTION BETWEEN THE APPLICANT'S MAIN AND SJWC MAIN.

SJWC MATERIALS LIST

<table>
<thead>
<tr>
<th>#</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2&quot; ELL 90° GALVANIZED</td>
</tr>
<tr>
<td>2</td>
<td>2&quot; GALVANIZED PIPE</td>
</tr>
<tr>
<td>3</td>
<td>2&quot; METER WHEEL VALVE, MODEL J-372-F</td>
</tr>
<tr>
<td>4</td>
<td>2&quot; FLANGED METER (TURBO OR POSITIVE DISPLACEMENT)</td>
</tr>
<tr>
<td>5</td>
<td>2&quot; METER FLANGE MALE</td>
</tr>
<tr>
<td>6</td>
<td>2&quot; NIPPLE CLOSE BRASS</td>
</tr>
<tr>
<td>7</td>
<td>2&quot; DOUBLE CHECK VALVE ASSEMBLY</td>
</tr>
</tbody>
</table>

SAN JOSE WATER COMPANY

STANDARD TEMPORARY TIE-IN

Effective 09/03/2013
NOTES:
1.) IN-LINE ANCHOR BLOCK SHALL BE Poured AGAINST UNDISTURBED GROUND.
2.) APPLY TWO COATS OF SUPER TANK SOLUTION ON ALL METAL EXPOSED TO SOIL.
3.) ANCHOR BLOCK SIZES ARE BASED ON 150 PSI WORKING PRESSURE (SAFETY FACTOR OF 1.5) AND 2000 LBS./SQ. FT. BEARING SOIL.
4.) CONCRETE SHALL BE KEPT CLEAR OF FLANGES, NUTS, AND BOLTS.
NOTES:

APPLY BITUMASTIC #33 ON ALL NON-GALVANIZED SURFACES.

PAINT OUTSIDE OF SOCKET YELLOW FOR IDENTIFICATION.

NOTE:

AWWA, AWS & ASTM DESIGNATIONS TO BE WITH LATEST REVISIONS.
NOTES:
BARRIER IS REQUIRED FOR ANY PROPOSED UTILITY CROSSING INVOLVING SJWC PIPING WHERE THE CLEARANCE BETWEEN THE 2 UTILITIES IS LESS THAN 12".

IF THE CLEARANCE IS LESS THAN 6", THEN THE PROPOSED CROSSING IS NOT ALLOWED; AN OFFSET MAY THEN BE REQUIRED IF AN ALTERNATE SOLUTION CAN'T BE FOUND.