

City Water Connection

JUNEAU PERMIT CENTER, 4TH FLOOR MARINE VIEW CENTER, (907) 586-0770

The attached packet of information is intended to assist you in connecting to City water.

One of the advantages of City water is that it provides a uniform supply of good quality water at a constant pressure. However, the pressure may prove to be a problem to some older plumbing systems. City water is generally supplied at 50-70 psi as compared to the 30-40 psi in most well systems. If there is any doubt concerning the adequacy of your plumbing system, it is recommended that you have your system pressured tested prior to connection to City water.

Your water service line must be inspected by a City inspector before the pipe is covered. Also, in order to protect the water system from any inadvertent contamination, your plumbing fixtures will need to be inspected to verify that the appropriate back-flow prevention devices are installed. It may be that you will need to add a pressure reducing valve to your system or replace weakened components.

The monthly charges for water can be found at: <http://www.juneau.org/pubworks/rates.php>

Welcome to the convenience of City water!

REQUIRED PERMIT APPLICATIONS

When applying for a waterline connection, please fill out the **Water Line Information Sheet** located online at: <http://www.juneau.org/cddftp/documents/Waterline.pdf> and submit with your choice of application process as listed below. The critical information the Permit Center will need from you is the **Number of Fixtures** (new and/or existing); **Size** of incoming line; **Distance** from curb box at the property line to the dwelling; **Pressure** if known and **Height** measured vertically to the highest fixture.

- **PERMIT CENTER APPLICATION IN PERSON**

Please come prepared with the type and number of water fixtures that will be supplied by City water. Our staff will work with you to complete the **Permit Application, Water Line Information Sheet** and collect the required fees.

- **APPLICATIONS BY INTERNET**

The website for the **Online Permit Application** form is:

http://www.juneau.org/cddftp/buildperm/application_request.php (**Permit Application**)

<http://www.juneau.org/cddftp/documents/waterline.pdf> (**Water Line Information Sheet**)

Please fill out the required **Permit Application** and **Water Line Information Sheet** and email to: Permits@ci.juneau.ak.us.

Include your name and contact information on the form. Our staff will contact you to verify receipt of your application and to arrange for payment of fees.

- **APPLICATIONS BY MAIL**

Please fill out the required **Permit Application** and **Water Line Information Sheet** available at:

http://www.juneau.org/cddftp/documents/fill-in_bldperm.pdf (**Permit Application**)

<http://www.juneau.org/cddftp/documents/waterline.pdf> (**Water Line Information Sheet**)

The completed **Permit Application** and **Water Line Information Sheet** may be mailed to: **Permit Center , 155 South Seward St, Juneau, Alaska, 99801**. Include your name and contact information on the form. Our staff will contact you to verify receipt of your application and to arrange for payment of fees.

If you have any questions or wish to have an application and form mailed to you, please call the Permit Center at (907) 586-0770

SPECIFIC INSTRUCTIONS

Water Line Information Sheet: Customer line sizing is based on the Water Fixture Count (WFC) per current uniform plumbing code. To determine the size of waterline your building requires, list the number of fixtures; (2 Shower, 1 Toilet, etc.). If known, list the water service line size (pipe size from CBJ water main to the curb-stop (valve box) at the property line. If known, list the size of the customer line (pipe size from curb-stop to the building). List the distance from the curb-box to the farthest plumbing fixture fed by this water service. If known list the water pressure at the house. List the height (above + or below -) of the highest fixture (new or existing) from street level at the curb-box. Submit water line information sheet and application to the Permit Center. Staff will complete the additional information required to determine the Customer line size.

Water Line Assessment Fee: The Waterline Assessment Fee for a single family home is \$750.00. For multi-family dwellings (2 or more units) including duplexes and single family homes with an apartment, utilizing a 1" water service, the assessment fee is \$1,500.00. An additional \$750.00 assessment fee for each ½" increase above 1" water service line size is required. A meter shall be installed in all multiple unit dwellings.

If you wish, the water assessment fee may be added to your property taxes over a five-year period at \$50.00 for every \$750.00 of assessment. A single-family connection would cost \$160.00 per year for a total of \$800.00 under the extended payment option. If you wish to use this option you must complete and sign a contract form entitled "Application For Deferred Payment of Water System Hookup Fee." Please do not request this form unless you are very sure you wish to use the extended payment option. The forms are sequentially numbered and must be accounted for. Note that only the owner of the property or their representative through power of attorney can use this option.

If there is no service connection to your property line and your property abuts a City or State road with an existing City water main and/or sewer main, contact the General Engineering Division at (907) 586-0499 for requirements.

Water Meters: Meter yokes (pre-plumbed copper piping sized to accept a water meter) are provided by the City as a part of your water assessment fee for ¾" and 1" sized lines. Meter yokes must be installed prior to water turn-on. Meter yokes may be picked up at the Permit Center when your permit is issued. No special delivery of meter yokes is provided. Meter yokes and meters must be installed per CBJ Standard Detail 420.

Water meters are required to be installed in single-family dwellings with accessory apartments, duplex dwellings, bed and breakfast businesses, multifamily residential buildings with three or more dwelling units and all commercial buildings. The meter yokes are still required in single family homes for potential future use. Water meters shall match the customer line size.

Inspection Requests: All installations attached to CBJ Utilities must be inspected. To have the work inspected, please call (907) 586-1703 to request an inspection. Since this is a recorded message, be sure to have your **permit number, project location, date, time, type of inspection, contact name, and phone number**. If we are unable to inspect your project within a half-hour of the time you request we will attempt to contact you by telephone to arrange another time. This inspection request line is available 24 hours a day. In order to allow time to schedule inspections, please call at least one day in advance.

The latest time to call for an inspection is 7:30 a.m. on the day of the inspection. Inspection requests after 7:30 a.m. will not be completed the same day.

PLEASE NOTE: Inspection hours are generally from 9:00 a.m. to 3:00 p.m., Monday through Friday, except City holidays. Inspections outside of normal working hours might be possible. However, an additional fee will be charged. Contact the Juneau Permit Center at: (907) 586-0770 to make special arrangements.

Waterline Inspection Fee: One inspection, during normal business hours, is included in the water connection fee. This inspection is to determine that your water line is installed in accordance with CBJ Standard 419, "Residential Water Service Connection" (attached). We also inspect to determine that there are no cross connections in your plumbing system. The cross connection inspection may be made separately at no additional fee.

If additional inspections are required because you were not ready for the initial inspection or re-inspection is necessary due to a failure of test, an additional fee of \$60.00 will be charged for each inspection or hour of inspection time.

Please be sure that you or your contractor call for a free underground utility location search at (907)586-1333 prior to digging. Also, if you do not know the location of your water service, the City will locate it for you at no additional charge. The City will not locate utility lines within private property.

Utility Billing: Water utility billing will begin at the time of water turn-on. If you wish to have your water left on at time of connection billing will begin on that date.

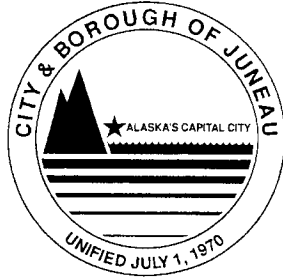
CROSS CONNECTION REQUIREMENTS

RESIDENTIAL

- Hosebibbs:** Need hose connection backflow preventer. Set screws must be set. Non-freeze hosebibbs require drainable vacuum breakers.
- Faucets:** If hose threads, need hose connection backflow preventer.
- Bidets:** Vacuum breaker critical level (CL) to be minimum 6" above flood level of fixture.
- Toilets:** Ballcocks shall be anti-siphon with vacuum breaker critical level (CL) 1" above top of overflow tube. (See next page)
- Submerged Inlets:** At old tubs and sinks, hot tubs and Jacuzzis, need air gaps or submit plan for approved device.
- Solar Systems:** Need protection, see Shawn Williams at the CBJ Building Division.
- Heat Exchangers:** Need protection, see Shawn Williams at the CBJ Building Division.
- Boilers:**
1. Boiler water with additives needs RP or air gap, permit required (See previous page)
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 3. RP's and 9D's or equal require approved hard-piped relief drains to within 6" or 24" of floor. Drain termination shall not be threaded or capped.
 4. Locate devices ahead of supply to boiler feed.
 5. No by-pass is allowed around backflow preventer.
- Auxiliary Water System:** One of the following options required:
1. RP assembly to separate City and auxiliary system, permit required.
 2. If existing water system is not going to be used, then it is to be made totally inoperable to satisfaction of Engineering Department. Physical separation to be minimum 1' above ground or 5' if below ground.
- Grounding:** When changing over for City water hook-up the water pipe grounding electrode continuity shall be maintained by jumpering around all non-soldered joints. Replacement of a metallic water pipe to a non-conductive water pipe **may require additional grounding** for your structure. Please speak with CBJ Building staff regarding a change in grounding.

COMMERCIAL

Schedule an inspection with the CBJ Building Division to determine requirements to protect the plumbing system. Those requirements to be complied with before City water will be granted to the building.



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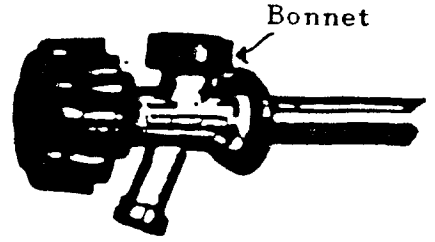
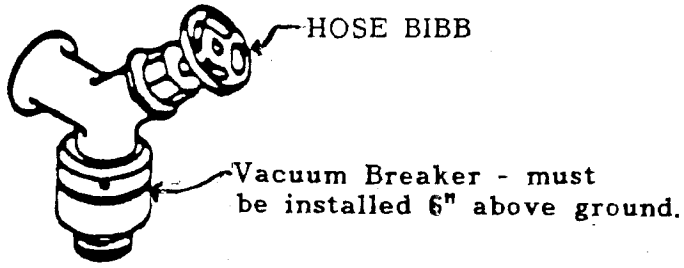
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HOSEBIBB APPLICATION

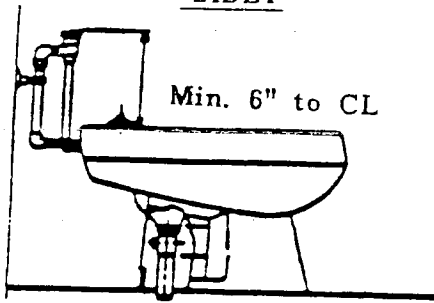
CAUTION

Do not use on frost free hose bibbs unless the vacuum breaker can be drained.

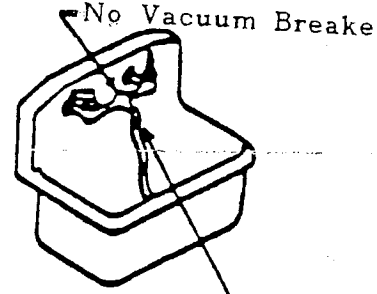
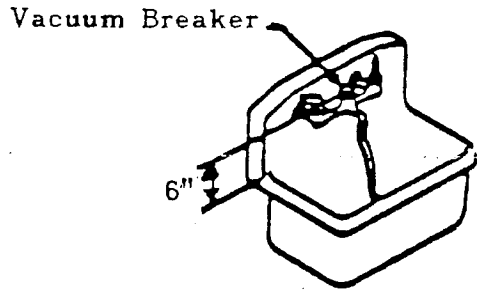


Built-In Bonnet-Like Vacuum Breaker (Self-Draining)

BIDET

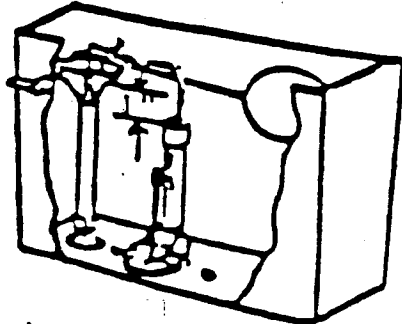
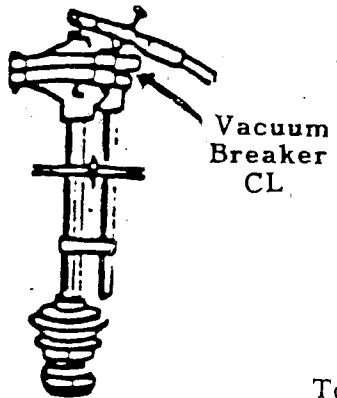


SERVICE SINK

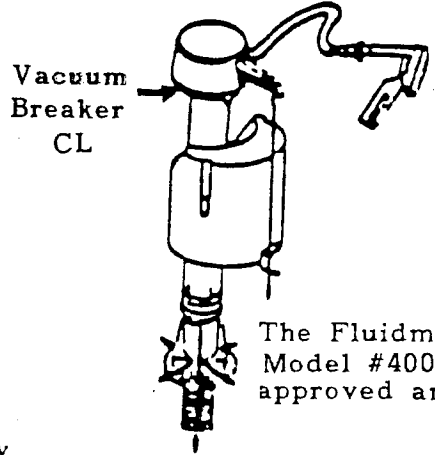


Need Vacuum Breaker Attached To Spout

TOILETS

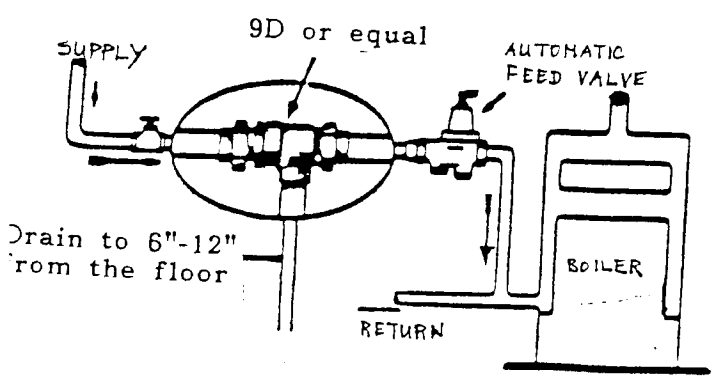


Toilet's Vacuum Breaker to be minimum 1" above the overflow level.

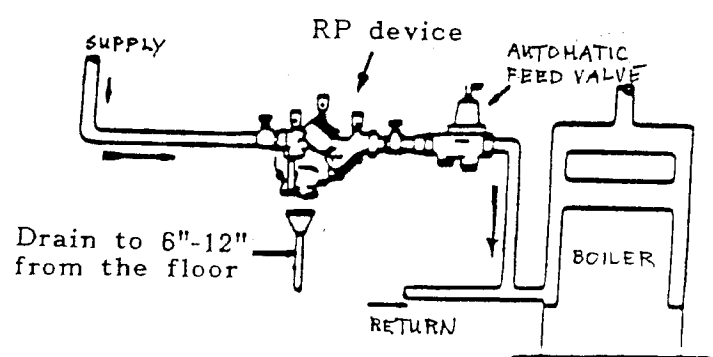


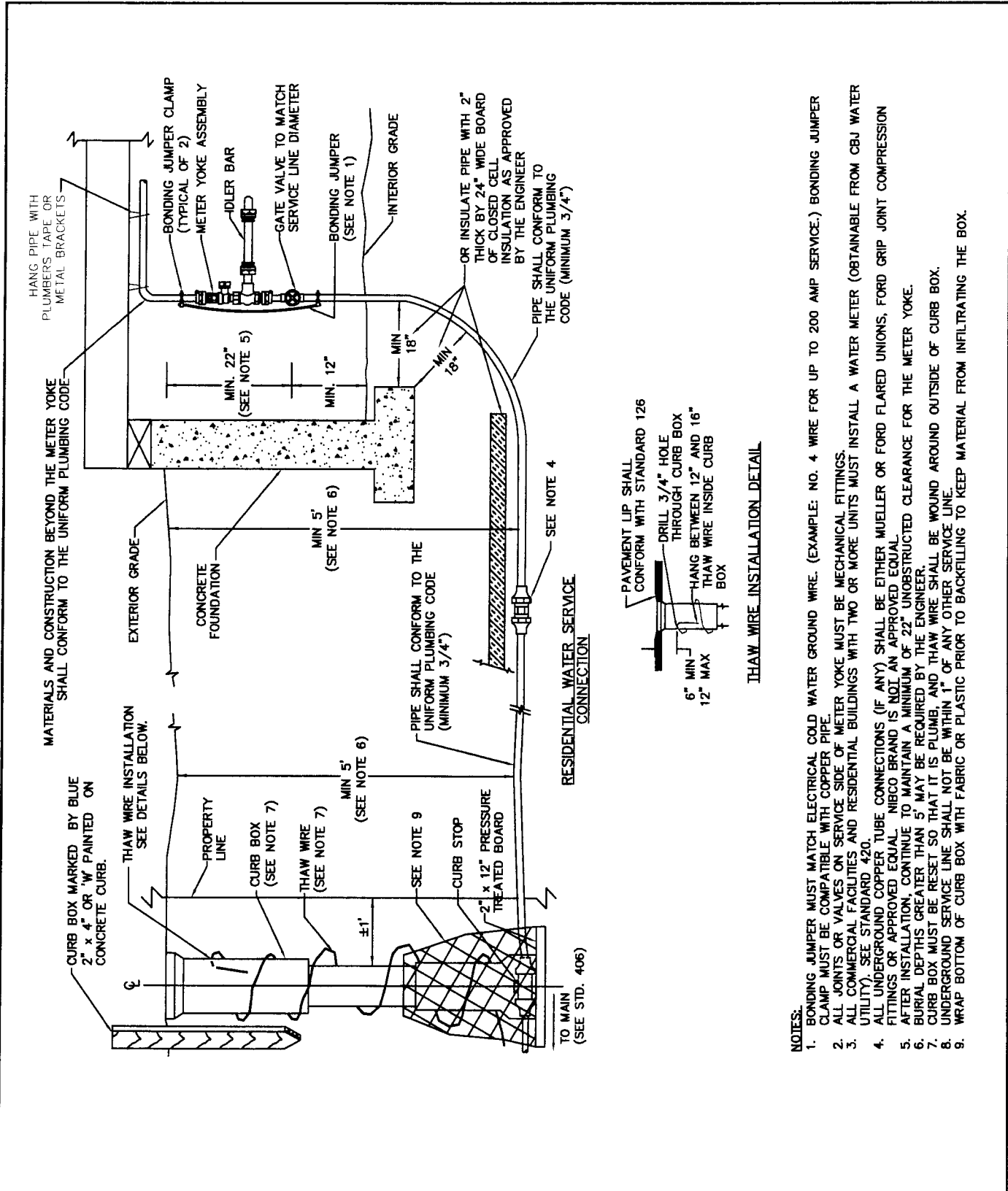
The Fluidmaster Model #400 is also approved antisiphon.

BOILER with WATER ONLY



BOILER with ADDITIVES

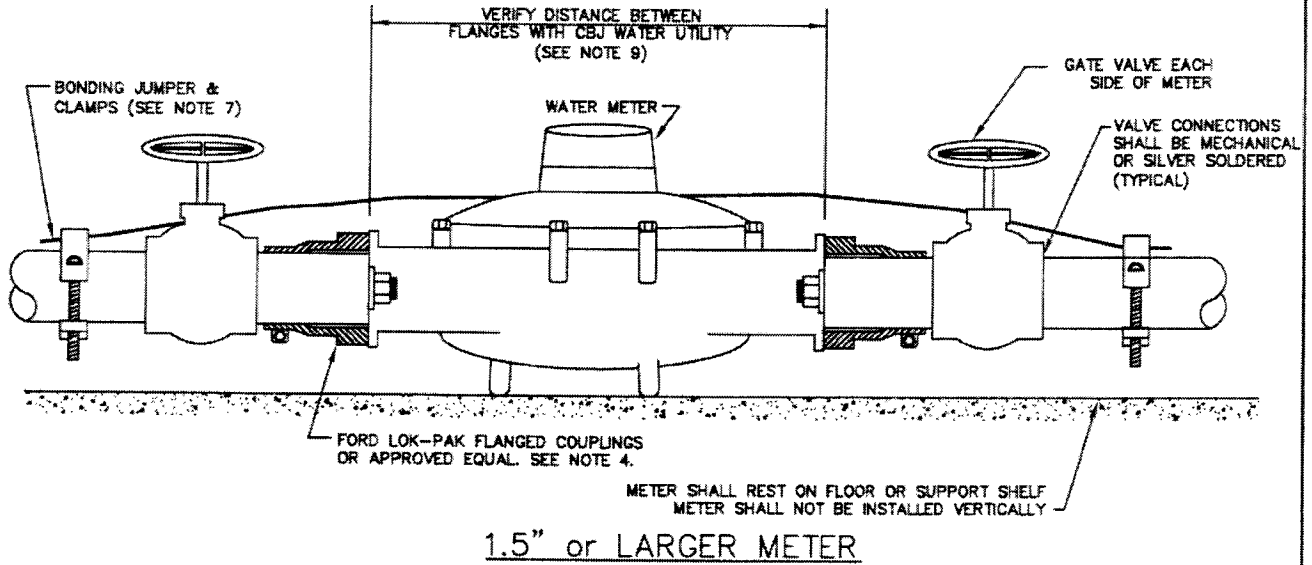




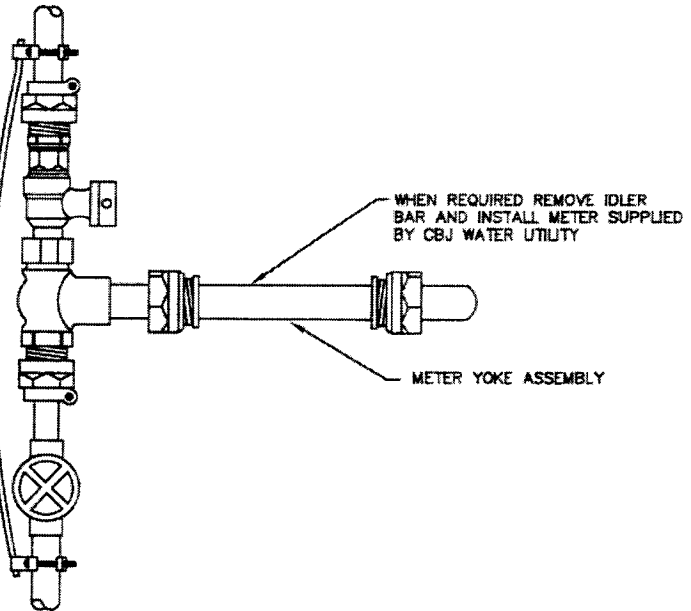
THAW WIRE INSTALLATION DETAIL

- NOTES:**
- BONDING JUMPER MUST MATCH ELECTRICAL COLD WATER GROUND WIRE. (EXAMPLE: NO. 4 WIRE FOR UP TO 200 AMP SERVICE.) BONDING JUMPER CLAMP MUST BE COMPATIBLE WITH COPPER PIPE.
 - ALL JOINTS OR VALVES ON SERVICE SIDE OF METER YOKE MUST BE MECHANICAL FITTINGS.
 - ALL COMMERCIAL FACILITIES AND RESIDENTIAL BUILDINGS WITH TWO OR MORE UNITS MUST INSTALL A WATER METER (OBTAINABLE FROM CBU WATER UTILITY). SEE STANDARD 420.
 - ALL UNDERGROUND COPPER TUBE CONNECTIONS (IF ANY) SHALL BE EITHER MUELLER OR FORD FLARED UNIONS, FORD GRIP JOINT COMPRESSION FITTINGS OR APPROVED EQUAL. NIBCO BRAND IS NOT AN APPROVED EQUAL.
 - AFTER INSTALLATION, CONTINUE TO MAINTAIN A MINIMUM OF 22" UNOBSTRUCTED CLEARANCE FOR THE METER YOKE.
 - BURIAL DEPTHS GREATER THAN 5' MAY BE REQUIRED BY THE ENGINEER.
 - CURB BOX MUST BE RESET SO THAT IT IS PLUMB, AND THAW WIRE SHALL BE WOUND AROUND OUTSIDE OF CURB BOX.
 - UNDERGROUND SERVICE LINE SHALL NOT BE WITHIN 1" OF ANY OTHER SERVICE LINE.
 - WRAP BOTTOM OF CURB BOX WITH FABRIC OR PLASTIC PRIOR TO BACKFILLING TO KEEP MATERIAL FROM INFILTRATING THE BOX.

SCALE: NTS	DATE: 12/12/96	CITY AND BOROUGH OF JUNEAU, ALASKA	
DRAWN BY: DRW	CHECKED BY: STAFF	RESIDENTIAL WATER SERVICE CONNECTION	
APPROVED BY: 	REVISED: 8/14/2011	STANDARD 419	



BONDING JUMPER. USE #4 COPPER WIRE FOR UP TO 200 AMP SERVICE. SEE NOTE 7.



3/4" or 1" METER YOKE

NOTES:

1. ALL COMMERCIAL FACILITIES AND RESIDENTIAL BUILDINGS WITH TWO OR MORE UNITS MUST INSTALL A WATER METER.
2. INSTALL WITH BASE OF METER PARALLEL TO FLOOR.
3. INSTALL THREE 22 GAUGE MULTICOLORED CONDUCTORS IN 1/2" ELECTRICAL CONDUIT FROM MAIN ENTRANCE OF BUILDING TO WITHIN 12" OF METER REGISTER (NOT TO EXCEED 100'). ALLOW AN EXTRA 2 FEET OF WIRE FOR METER CONNECTIONS.
4. PROVIDE MINIMUM 18" CLEARANCE ABOVE METER, AND MINIMUM 12" CLEARANCE EACH SIDE AND BELOW METER.
5. FOR 1.5" OR 2" METERS, COUPLINGS SHALL BE FORD LOK-PAK METER COUPLING CF34 (COPPER), CF35 (IRON), CF37 (PVC), OR AN APPROVED EQUAL WITH IDLER BAR.
6. WATER METERING SHALL BE COORDINATED WITH AND APPROVED BY THE CBJ WATER UTILITY.
7. BONDING JUMPER MUST MATCH ELECTRICAL COLD WATER GROUND WIRE. CLAMPS SHALL BE COMPATIBLE WITH COPPER PIPE.
8. NO SERVICE TAPS ALLOWED PRIOR TO METER INSTALLATION.
9. INSTALL IDLER BAR BETWEEN FLANGES AND VERIFY METER DIMENSION WITH CBJ WATER UTILITY PRIOR TO INSTALLATION.

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DRAWN BY: DRW	CHECKED BY: STAFF	METER INSTALLATION	
APPROVED BY: <i>DRW</i>	REVISED: 8/14/2011	STANDARD 420	