



TOWN OF HUDSON – Engineering Department



12 School Street • Hudson, New Hampshire 03051 • Tel: 603-886-6000 • Fax: 603-816-1291

TOWN OF HUDSON WATER UTILITY

WATER SERVICE APPLICATION (RESIDENTIAL)

Please read the following step by step procedures for attaining service. Should you have any questions concerning what is required to attain service, please do not hesitate to call the Engineering Division at 886-6008.

The Town has contracted with Pennichuck Water Works, Inc. (PWW) to assist with the Water Service Application, installation of meters, and inspections. Once an application and the application fee have been submitted to the Town, the application will be sent to PWW for review and processing. The application fee is defined on Exhibit A. There is also a one-time Water Access Fee that is required for all new connections to the water main. The Access Fee is set annually, as per the “New Customer Water System Access Fee” schedule attached, and must be paid prior to Certificate of Occupancy.

STEP BY STEP PROCEDURES FOR OBTAINING SERVICE

1. Please complete both the Water Connection Application and Water Demand Form. All fees are required to be paid in full prior to service.
2. With the application, a plan (8.5” X 11” maximum size) shall be submitted showing the existing water main, edge of pavement, building foundation, location of the proposed service and all applicable dimensions including building ties to the curb stop.
3. Complete the enclosed plan (8.5” X 11”) by showing the existing water and sewer mains, location of the proposed water and sewer services and distance from main to house, and add all applicable dimensions including building ties to the curb stop.
4. Submit the application, water demand form, and plans with fees to the Town.
5. The Town then reviews the application. You will be contacted when the review process is completed and approved.
6. An approved contractor by the Town of Hudson must do the installation of your water service in accordance with Town service specifications. It is your responsibility to contract with the contractor and pay for all installation costs. Copies of the appropriate service details are attached for your convenience, or can be found online by viewing the [Water Service Specifications](#) link.



TOWN OF HUDSON – Engineering Department



12 School Street • Hudson, New Hampshire 03051 • Tel: 603-886-6000 • Fax: 603-816-1291

Town of Hudson Water Utility

The water service must be inspected by one of the Town's technicians or agents (in this case PWW) prior to backfill. PWW requires 24-hour notice prior to an inspection. Inspections are scheduled through the **PWW Engineering Service Department at 882-5191, ext. 2321**. It is your responsibility to fence any trenches that must be left open until inspection.

A street opening permit may be required. Please contact the Hudson Highway Department for application and processing (886-6018).

7. Your final step to receiving water service involves the installation of the water meter, remote reader, and turning on the water service. Please contact PWW to have your meter installed. Note that a remote wire will be installed from the inside meter location to the outside of your house before the meter can be set. If any part of this wire needs to be installed behind sheet rock or in an area that will not be accessible to Pennichuck Water Works at the time the meter is set, it will be required by your contractor to install the wire from the meter location to the outside, using wire supplied by Pennichuck Water Works. One-week notice is required to have the meter set.

Your meter can not be set until your plumber has installed the internal plumbing to your house in accordance with the attached service details.

Once the meter is set at your house, then a service turn-on can be scheduled at anytime through the PWW Customer Service Department at 882-5191. The meter can be set and the water turned on during the same appointment.

High & Low Pressure Conditions

The applicant should be aware that the Town of Hudson has adopted the IRC (International Residential Code). This code addresses high and low pressure conditions for water supply. The applicant must address this issue with their plumber.

The Town of Hudson Water Utility suggests, based on past experience, that the applicant considers any pressure less than 40 psi as low. This pressure may exceed the BOCA Code, however, this standard we feel will provide a better water supply based on simultaneous use of fixtures.



TOWN OF HUDSON – Engineering Department



12 School Street • Hudson, New Hampshire 03051 • Tel: 603-886-6000 • Fax: 603-816-1291

PRV Requirements

On all new residential domestic services and residential service renewals, Pennichuck Water Works will install a backflow prevention device at the service entrance. It is the responsibility of the property owner to install a suitable expansion tank and a pressure release valve on water heaters on the premises to prevent damage resulting from lack of pressure relief through the water line. Pennichuck Water Works may also require the property owner to install increased levels of backflow prevention protection.

Cross Connection

It is illegal to have a connection between the distribution system and any pipes, pumps, hydrants, fire protection, sprinkler system or tanks whereby non-potable water or other contaminating materials may be discharged or drawn into the water distribution system.

Separation of Water and Sewer

Water mains shall be installed at least 10-feet horizontally from any existing or proposed sanitary sewer. In cases where it is not practical to maintain a 10-foot separation, a deviation may be allowed on a case-by-case basis. No water pipe shall pass through or come in contact with any part of a sanitary sewer manhole. The water service or main must be at least 18 inches above the sewer main or service when crossed.

EXHIBIT 'A'

RESIDENTIAL WATER CONNECTION FEES

1. Application processing & inspections by the Town \$100.00
2. Meter Installation & inspections by Pennichuck Water Works:

SIZE

5/8"	(Most residential homes require a 5/8" meter.)	\$400.00
3/4"		\$500.00
1"		\$550.00
1 1/2"		\$800.00
2"		\$1,050.00
3"		\$1,050.00 + Parts
>3"	*Cost to be determined at time of application.	

3. New customer water system access fee *See attached chart

**Town of Hudson Water Utility
New Customer Water System Access Fee
January 2002**

<u>Year</u>	<u>Supply Fee *</u>	<u>Distribution Fee</u>	<u>Combined Total</u>
2001	\$1,500	\$467	\$1,967
2002	\$1,545	\$659	\$2,204
2003	\$1,591	\$851	\$2,442
2004	\$1,639	\$1,043	\$2,682
2005	\$1,688	\$1,236	\$2,924
2006	\$1,739	\$1,428	\$3,167
2007	\$1,791	\$1,620	\$3,411
2008	\$1,845	\$1,812	\$3,657
2009	\$1,900	\$2,004	\$3,904
2010	\$1,957	\$2,196	\$4,153
2011	\$2,016	\$2,388	\$4,404
2012	\$2,076	\$2,580	\$4,656
2013	\$2,139	\$2,772	\$4,911
2014	\$2,203	\$2,964	\$5,167
2015	\$2,269	\$3,156	\$5,425
2016	\$2,337	\$3,348	\$5,685
2017	\$2,407	\$3,540	\$5,947
2018	\$2,479	\$3,732	\$6,211
2019	\$2,554	\$3,924	\$6,478
2020	\$2,630	\$4,116	\$6,746
2021	\$2,709	\$4,308	\$7,017
2022	\$2,790	\$4,500	\$7,290
2023	\$2,874	\$4,692	\$7,566
2024	\$2,960	\$4,884	\$7,844
2025	\$3,049	\$5,076	\$8,125
2026	\$3,141	\$5,130	\$8,271
2027	\$3,235	\$5,185	\$8,420
2028	\$3,332	\$5,239	\$8,571

* Supply Fee is adjusted by 3% per year for inflation.

**The above fees are based on a 300 gpd average use.
Fees for other water uses are adjusted proportionally.**



TOWN OF HUDSON – Engineering Department



12 School Street • Hudson, New Hampshire 03051 • Tel: 603-886-6000 • Fax: 603-816-1291

WATER CONNECTION PERMIT APPLICATION (RESIDENTIAL)

APPLICATION FEES MUST ACCOMPANY PERMIT APPLICATION.

1. OWNER INFORMATION

NAME: _____

ADDRESS: _____

PHONE: _____ EXT: _____

CONTRACTOR: _____

CONTRACTOR PHONE: _____

BUILDING LOCATION: _____

TAX MAP: _____ LOT: _____

BY APPLYING FOR THIS CONNECTION, I AGREE TO ABIDE BY ALL APPLICABLE TOWN, STATE AND FEDERAL REQUIREMENTS.

SIGNATURE: _____

AGENT FOR OWNER - IF DIFFERENT FROM ABOVE, INCLUDE ADDRESS AND TELEPHONE NUMBER: _____

For office use:

2a. **PERMIT FEE:** Amount: _____
Date: _____ Receipt #: _____ Received by: _____

2b. **ACCESS FEE:** Amount: _____
Date: _____ Receipt #: _____ Received by: _____

3. **METER SIZE:** _____

SERVICE TYPE: NEW RENEWED METER ONLY



TOWN OF HUDSON – Engineering Department



12 School Street • Hudson, New Hampshire 03051 • Tel: 603-886-6000 • Fax: 603-816-1291

4. DEPARTMENT OF PUBLIC WORKS

_____ Street opening permit required (check if applicable)

SPECIAL CONDITIONS: _____

Road Agent or Designee

Date

5. TOWN ENGINEER REVIEW / PWW REVIEW

SPECIAL CONDITIONS: _____

6. OTHER REQUIREMENTS – PER PWW

BACK FLOW PREVENTER REQUIRED: Yes _____ No _____

PRESSURE REDUCING VALVE REQUIRED: Yes _____ No _____

PRV Requirements

On all new residential domestic services and residential service renewals, Pennichuck Water Works will install a backflow prevention device at the service entrance. It is the responsibility of the property owner to install a suitable expansion tank and a pressure release valve on water heaters on the premises to prevent damage resulting from lack of pressure relief through the water line. Pennichuck Water Works may also require the property owner to install increased levels of backflow prevention protection.

Building Location: _____

Tax Map: _____ Lot: _____



TOWN OF HUDSON – Engineering Department



12 School Street • Hudson, New Hampshire 03051 • Tel: 603-886-6000 • Fax: 603-816-1291

FIRE SERVICE (If applicable)

SUBDIVISION NAME: _____

LOCATION: _____

BUILDING # _____

SERVICE NO. _____

DATE: _____

FIRE SERVICE SIZE: _____



TOWN OF HUDSON – Engineering Department



12 School Street • Hudson, New Hampshire 03051 • Tel: 603-886-6000 • Fax: 603-816-1291

NON-RESIDENTIAL WATER DEMAND FORM

PLUMBING FIXTURES	PIPE SIZE CONNECTION	QUANTITY
Bathtub		
Bedpan Washers		
Combination Sink & Tray		
Dental Unit		
Dental Lavatory		
Drinking Foundation		
Kitchen Sink – 1/2" Connection 3/4" Connection		
Lavatory – 3/8" Connection 3/4" Connection		
Lavatory Tray – 1/2" Connection 3/4" Connection		
Shower Head (Shower On)		
Service Sink – 1/2" Connection 3/4" Connection		
Urinal – Pedestal Flush Valve Wall Flush Valve Trough (2 Ft. Unit)		
Wash Sink (Each Set of Faucets)		
Water Closet – Flush Valve Tank Type		
Dishwasher – 1/2" Connection 3/4" Connection		
Washing Machine – 1/2" Connection 3/4" Connection 1" Connection		
Hose Connection (Wash Down)		
Hose (50 Ft. Wash Down) 1/2" 3/4" 5/8"		
Irrigation		



TOWN OF HUDSON – Engineering Department

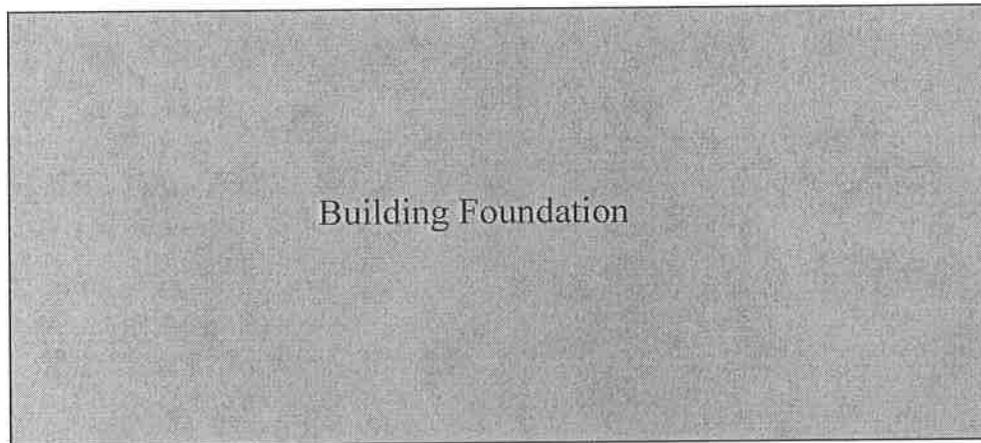


12 School Street • Hudson, New Hampshire 03051 • Tel: 603-886-6000 • Fax: 603-816-1291

Water Service Sketch

Street Address: _____

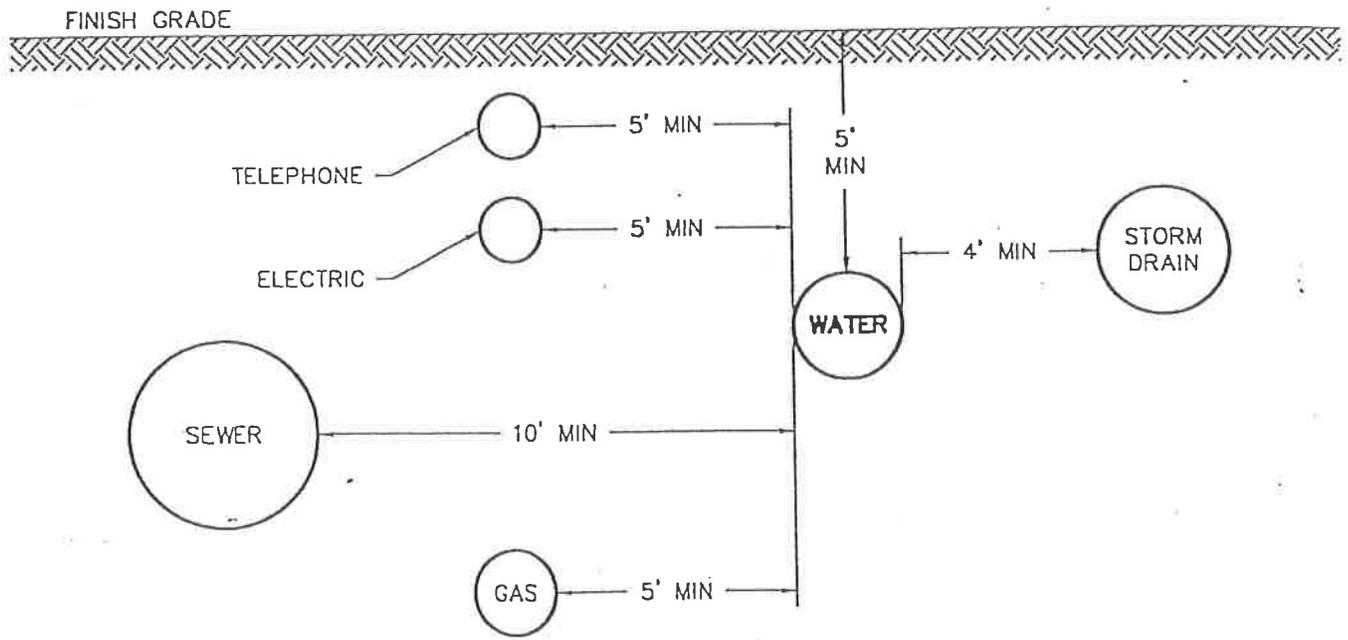
Map: _____ Lot: _____



R.O.W. _____

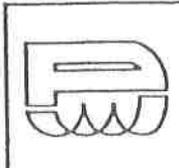
Edge of _____
Pavement _____
R.O.W. _____

Sketch shall show the approximate location of the existing water main, and the location and distance of the proposed water and sewer service.

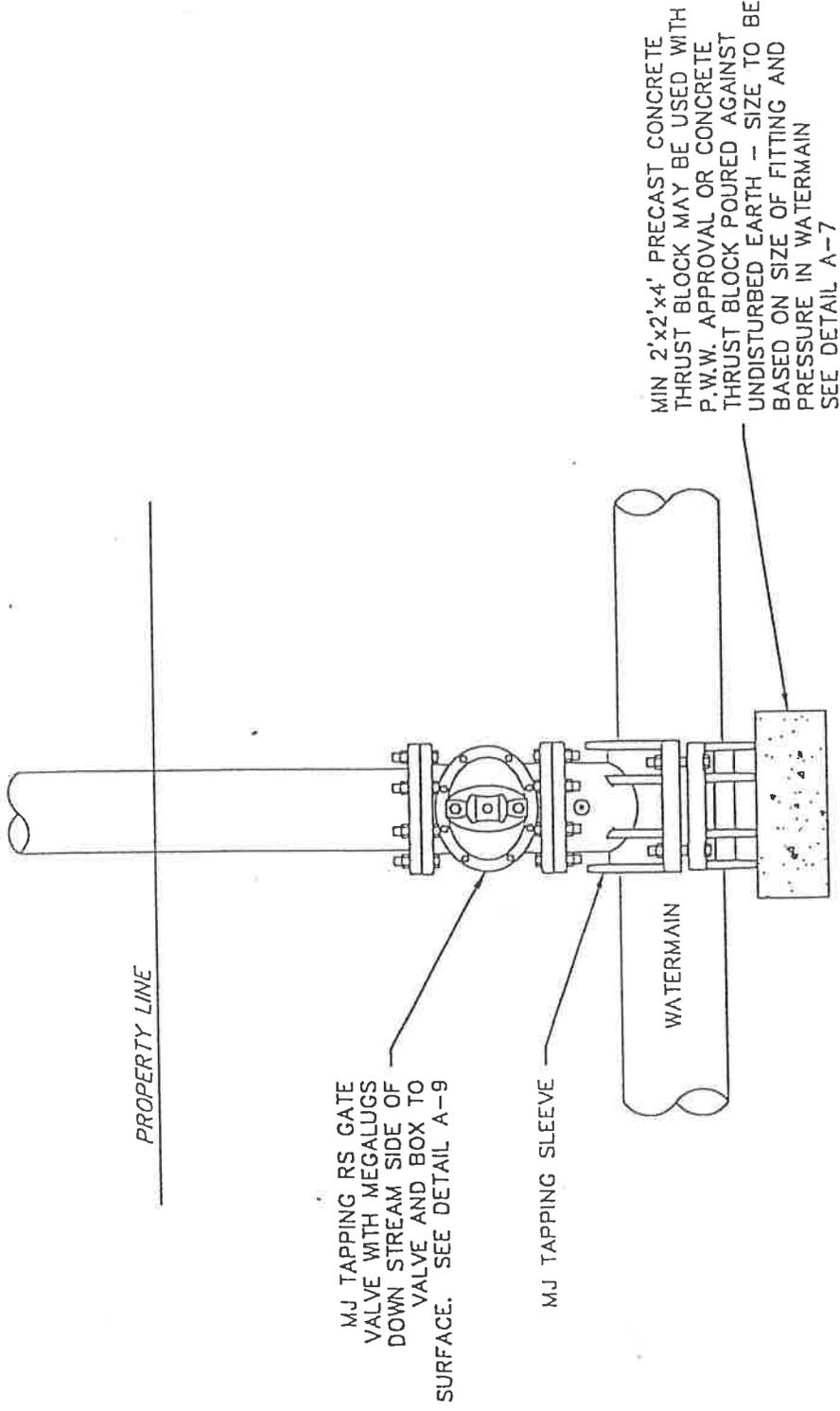


NOTES:

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL WATER MAIN SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. SEE DETAIL A-2 FOR TRENCH DETAIL.
4. SEE DETAIL A-11 FOR OUTSIDE SERVICE ENTRANCE DETAIL.



DETAIL A-1
 TYPICAL UTILITY SEPERATION DETAIL
 PENNICHUCK WATER WORKS, INC.
 REV: 2-98 SCALE: NTS



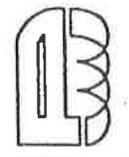
MJ TAPPING RS GATE VALVE WITH MEGALUGS DOWN STREAM SIDE OF VALVE AND BOX TO SURFACE. SEE DETAIL A-9

MJ TAPPING SLEEVE

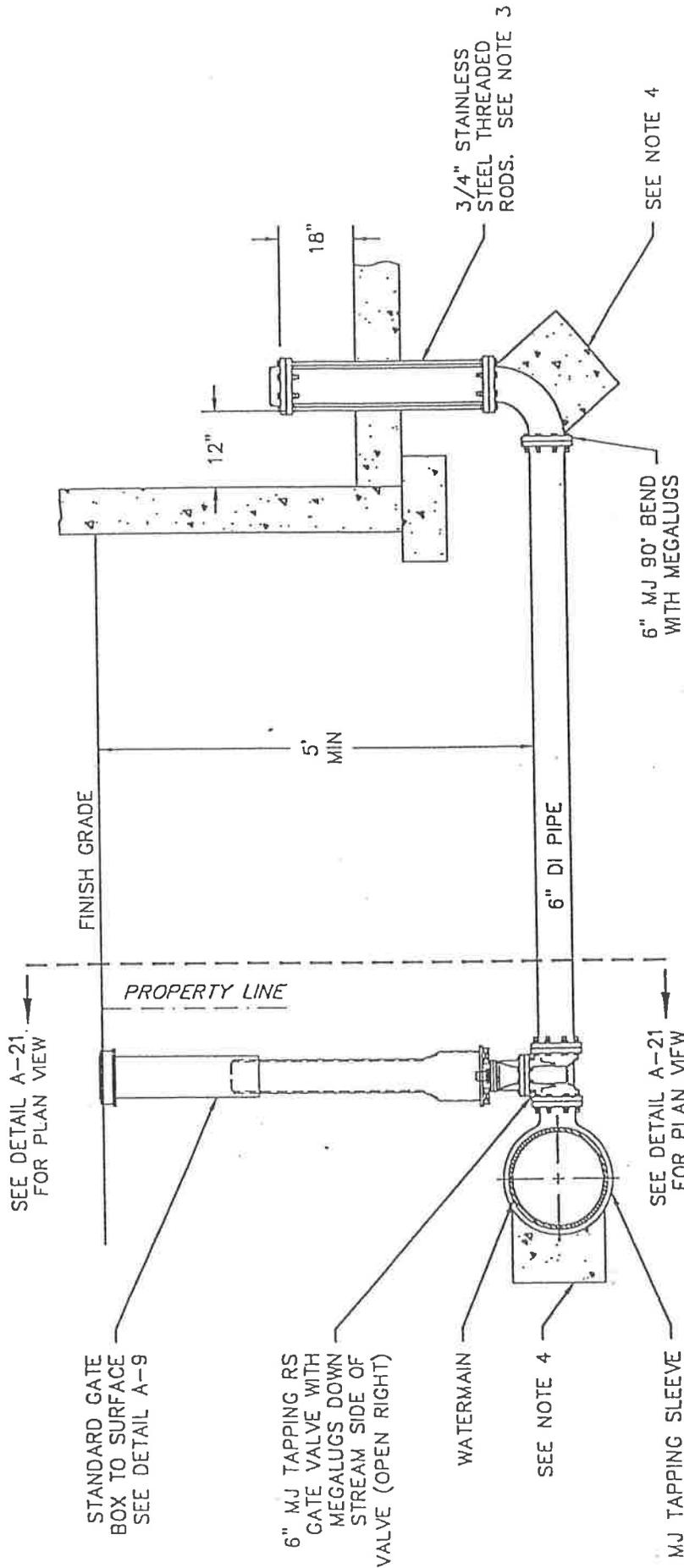
WATERMAIN

MIN 2'x2'x4' PRECAST CONCRETE THRUST BLOCK MAY BE USED WITH P.W.W. APPROVAL OR CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH - SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATERMAIN SEE DETAIL A-7

- NOTES:
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
 2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
 3. SEE DETAIL A-22 FOR CROSS-SECTIONAL VIEW.

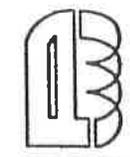


DETAIL A-21
 TYPICAL LARGE SERVICE CONNECTION
 PENNICHUCK WATER WORKS, INC.
 REV: 3-97 SCALE: NTS

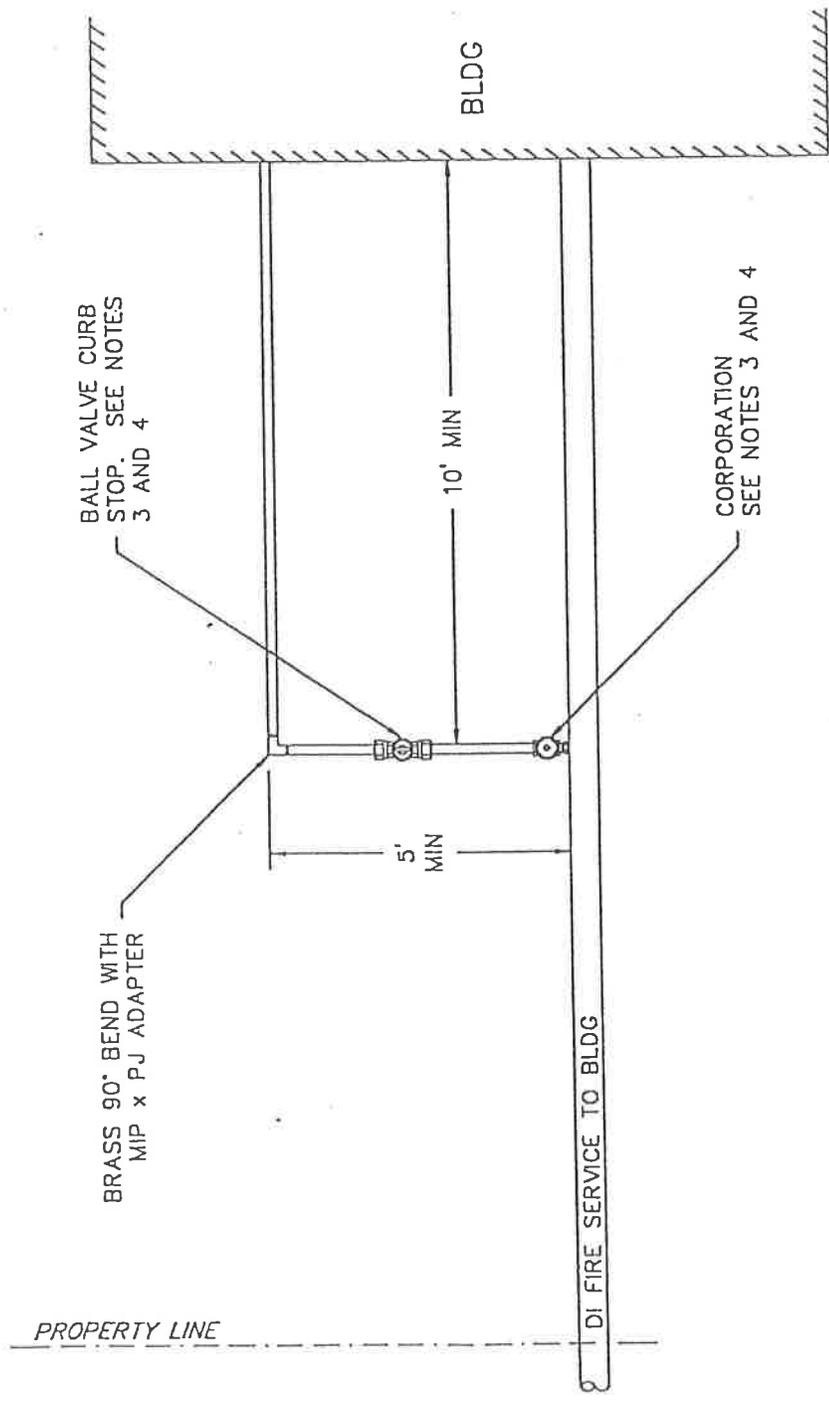


NOTES:

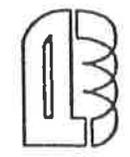
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. ALL THREADED RODS AND NUTS MUST BE STAINLESS STEEL.
4. MIN 2'x2'x4' PRECAST CONCRETE THRUST BLOCK MAY BE USED WITH P.W.W. APPROVAL OR CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH - SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATERMAIN. SEE DETAIL A-7.
5. SEE DETAIL A-23 FOR FIRE SERVICE INSTALLATION WITH SLAB FOUNDATIONS.



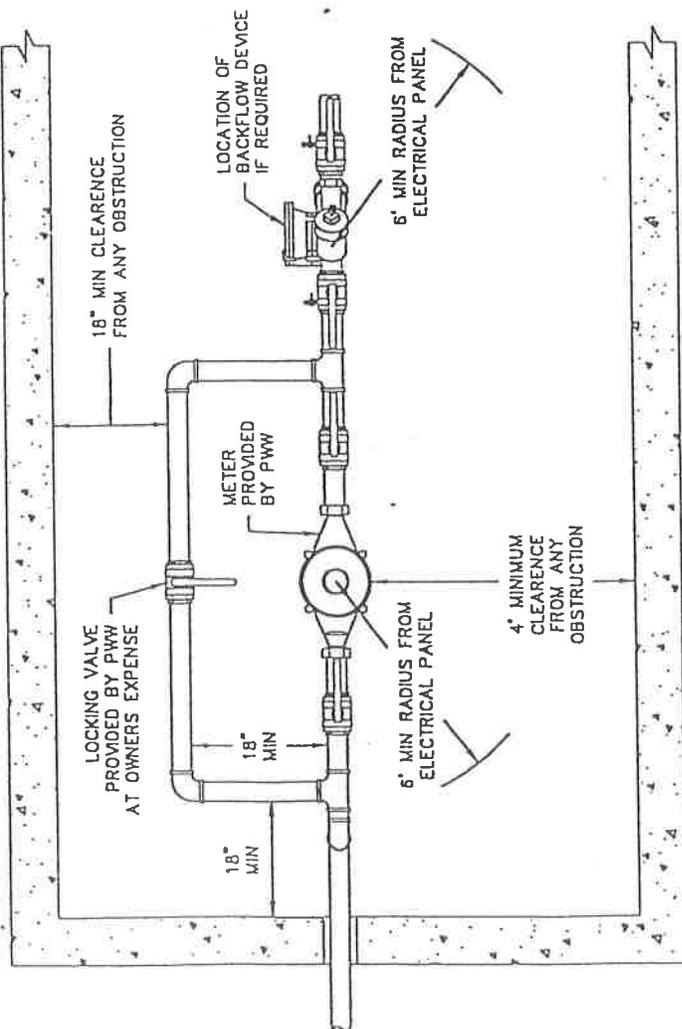
DETAIL A-22
 TYPICAL FIRE SERVICE
 INSTALLATION DETAIL
 PENNICHUCK WATER WORKS, INC.
 REV: 3-97
 SCALE: NTS



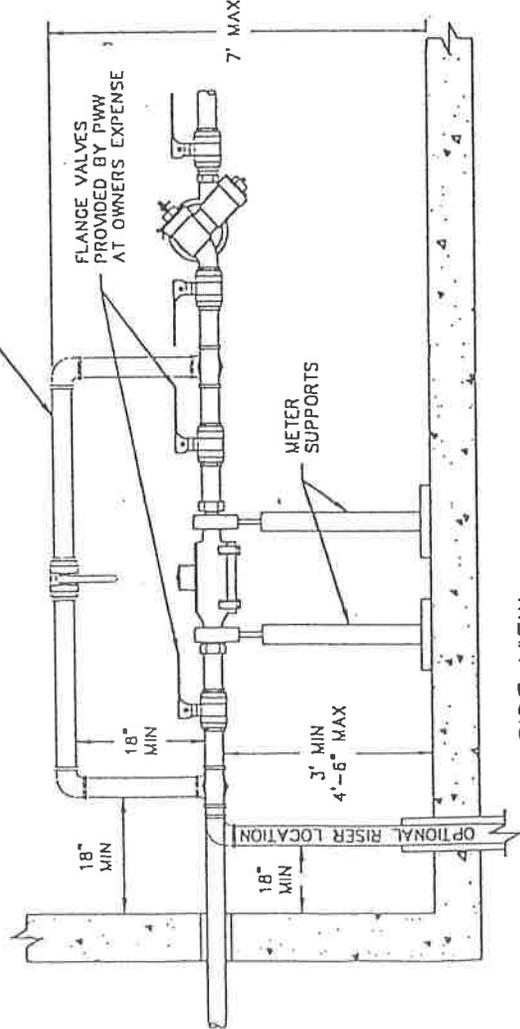
- NOTES:**
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
 2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
 3. SEE DETAIL A-20 FOR 1" SERVICE AND VALVE BOX INSTALLATION DETAIL.
 4. SEE DETAIL A-12 FOR 1 1/4" - 2" SERVICE AND VALVE BOX INSTALLATION DETAIL.
 5. SEE DETAIL A-11 FOR OUTSIDE SERVICE ENTRANCE PLAN VIEW.



DETAIL A-24
 TYPICAL DOMESTIC SERVICE TAPPED
 OFF FIRE SERVICE
 PENNICHUCK WATER WORKS, INC.
 REV: 2-98 SCALE: NTS



TOP VIEW

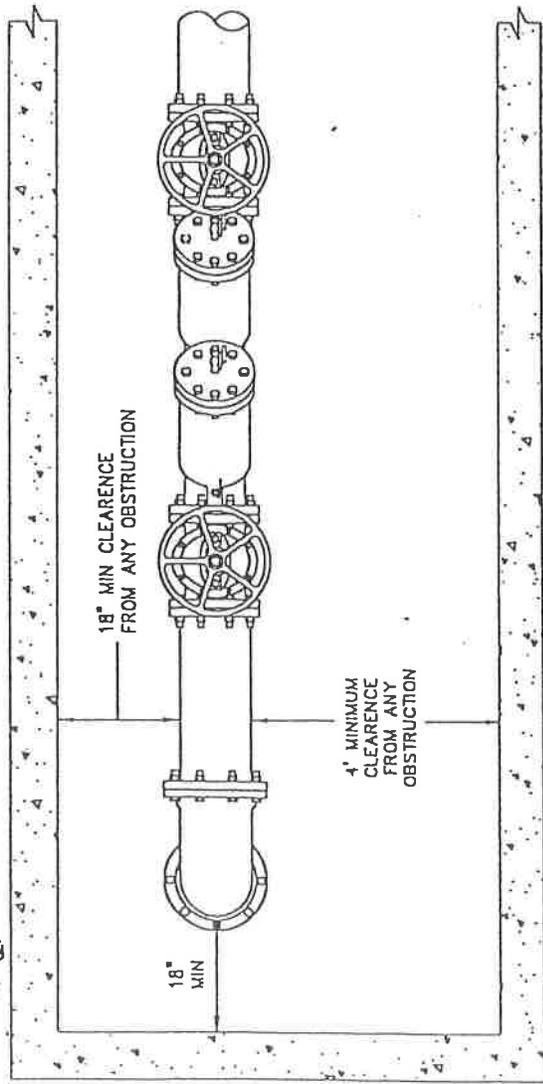


SIDE VIEW

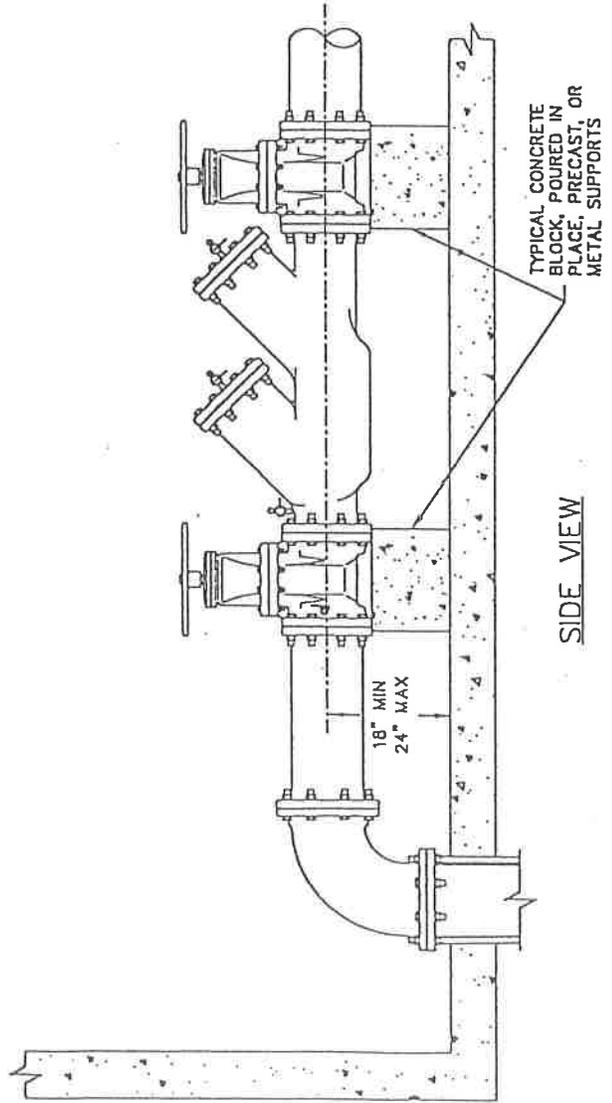
- NOTES:**
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
 2. PRV WHEN NECESSARY WILL BE INSTALLED AND PURCHASED BY OWNER OR CONTRACTOR.
 3. 1 1/2" METER = 13" LAYING LENGTH.
 4. 2" METER = 17" LAYING LENGTH.
 5. SEE DETAIL A-27 FOR COMBINED FIRE AND DOMESTIC SERVICE ENTRANCE DETAIL.
 6. ANY ELECTRICAL PANEL MUST MAINTAIN A 6' MINIMUM RADIUS FROM METER AND BACKFLOW.



DETAIL A-25
 1 1/2" THRU 2" SERVICE
 ENTRANCE DETAIL
 PENNICHUCK WATER WORKS, INC.
 REV: 10-97 SCALE: NTS



TOP VIEW



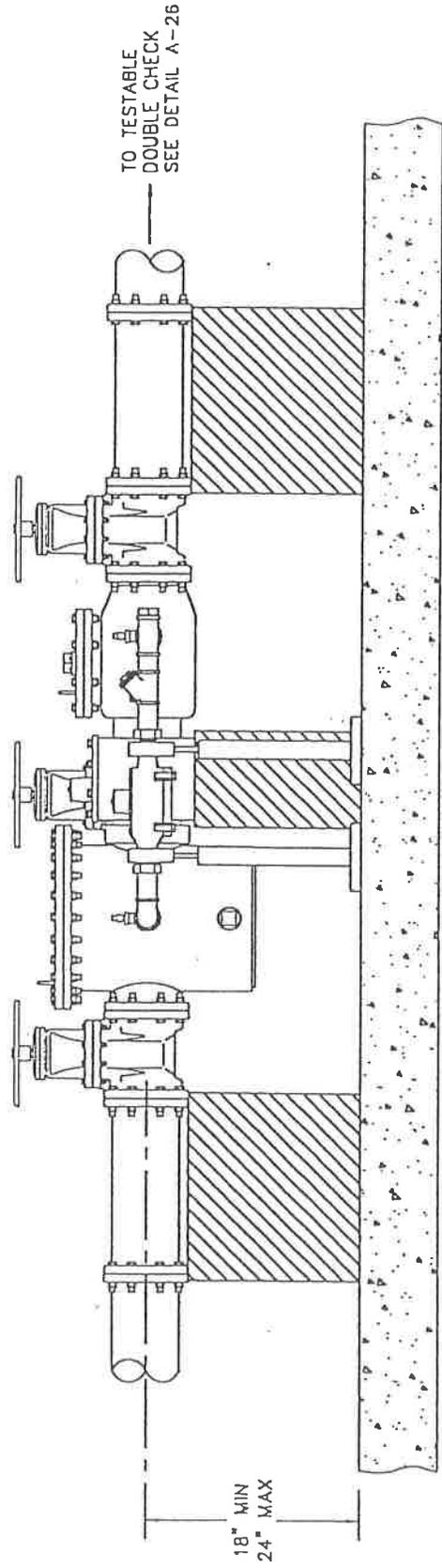
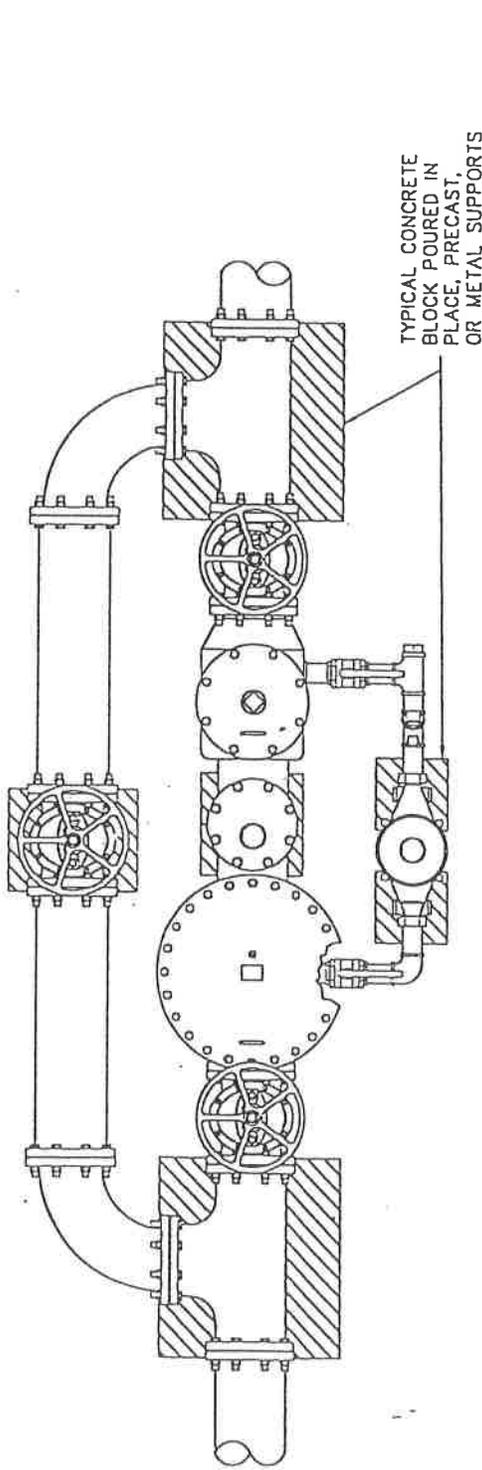
SIDE VIEW

NOTES:

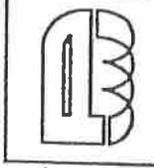
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. BACKFLOW PREVENTOR REQUIRED ON ALL FIRE SERVICES. TYPE AND LOCATION SUBJECT TO P.W.W. APPROVAL.
3. SEE DETAIL A-27 FOR COMBINED FIRE AND DOMESTIC SERVICE ENTRANCE DETAIL.



DETAIL A-26
 FIRE SERVICE ENTRANCE DETAIL
 PENNICHUCK WATER WORKS, INC.
 REV: 01-98 SCALE: NTS



NOTES:
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.



DETAIL A-28
TYPICAL FIRE SERVICE
WITH YARD HYDRANTS
PENNICHUCK WATER WORKS, INC.
REV: 02-98
SCALE: NTS