



The diagrams illustrate the required thrust block configurations for different pipe fittings. Each diagram shows a cross-section of the pipe and the surrounding concrete block, with labels for 'THICKNESS', 'SURFACE AREA', and 'STEEL TIE STRAP'.

TEES & DEAD ENDS: Shows a pipe with a tee or dead end. The thrust block is a rectangular concrete structure. Labels include 'THICKNESS' (the height of the block), 'SURFACE AREA' (the top surface of the block), and 'STEEL TIE STRAP' (a strap used to secure the pipe to the block).

HORIZONTAL BENDS: Shows a pipe with a horizontal bend. The thrust block is a rectangular concrete structure. Labels include 'THICKNESS' (the height of the block), 'SURFACE AREA' (the top surface of the block), and 'STEEL TIE STRAP' (a strap used to secure the pipe to the block).

VERTICAL BENDS: Shows a pipe with a vertical bend. The thrust block is a rectangular concrete structure. Labels include 'THICKNESS' (the height of the block), 'SURFACE AREA' (the top surface of the block), and 'STEEL TIE STRAP' (a strap used to secure the pipe to the block).

HYDRANT BURLYS: Shows a pipe with a hydrant burl. The thrust block is a rectangular concrete structure. Labels include 'THICKNESS' (the height of the block), 'SURFACE AREA' (the top surface of the block), and 'STEEL TIE STRAP' (a strap used to secure the pipe to the block).

The diagram shows a cross-section of a meter vault. A manhole is located on the left side, with a cover labeled 'W-15'. Inside the vault, there is a horizontal pipe labeled 'METER' and a vertical pipe labeled 'VENT'. The vault is labeled 'METER VAULTS' at the bottom. The manhole is labeled 'MANHOLE' and the vent pipe is labeled 'VENT PIPE'.

W-15

METER VAULTS

MANHOLE

METER

VENT PIPE

2" METER SERVICE

1. 1" x 2" DOUBLE STRAP BRASS SADDLE
2. 1" BALL CONE MPX C.T.S.
3. 2" COPPER TUBING TYP. 1"
4. 2" BRASS ANGLE STOP
5. WATER METER N.Y. CITY OF EDINBURG
6. LASE C.I. METER BOX WILL BE PROVIDED BY CITY OF EDINBURG.

* ALL WATER METERS 4" AND ABOVE SHALL BE PLACED IN A CONCRETE METER VAULT APPROVED BY THE CITY OF EDINBURG.

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MANHOLE FRAME AND COVER

SCREEN COVER OVER

Diagram illustrating the components and dimensions of a riser assembly:

- END OF VENT PIPE
- CRISPEN AIR RELEASE VALVE MODEL P-200 WITH 1" INLET OR EQUAL
- 1" RCP
- 5"x14" SLAB REINFORCED WITH 6"x6" @ 6 A. W/M
- 1" COPPER OR BRASS PIPE BRASS NIPPLE PT (1/2") BRASS 90 ELL PT (1/2") BRASS NIPPLE PT (1/2")
- 2" HOLE IN CENTER OF SLAB
- PEA GRAVEL
- 6" DIA.
- 1'-0" DIA.

NOTE:
AIR RELEASE VALVE STATIONING IS ONLY APPROXIMATE.
ACTUAL LOCATION OF AIR OF LINE OR AS DIRECTED BY

ELEVATION

SPECIFICATIONS:

CONCRETE: Class 1 concrete with design strength of 4500 PSI at 28 days. Unit of monolithic construction and first stage of wall with sectioned riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

STEEL COVER: All steel fabrication shall be in accordance to AISC D1.1. Steel shall be ASTM A36 carbon steel and hot dipped galvanized after fabrication in accordance to ASTM A 123. Standard cover: 5 noted for 5/8" and 3/4" rebar, 4" for 1" rebar.

VALVE INSTALLATION DETAIL

ENGINEERING DATA: The meter assembly shall be factory assembled in vault & hydrostatically tested prior to field excavation & preparation shall be complete prior to delivery. Pipes, valves and fittings of the assembly shall be approved by one or more of the following associations: American Water Works Association, Underwriters Laboratories, National Fire Protection Association, International Association of Plumbing and Mechanical Officials, Uniform Plumbing Code, American Society of Sanitary Engineering.

Diagram of a water main tapping sleeve assembly. The diagram shows a cross-section of a water main with a tapping sleeve installed. Various components are labeled with letters A through H. A dimension line indicates a variable length of 3 inches to 5 inches minimum. The diagram is a technical drawing showing the internal structure of the sleeve and its connection to the main pipe.

CONSTRUCTION NOTES:

- WATER MAIN (SEE PLANS AND SPECIFICATIONS)
- TAPPING SLEEVE (SIZE AS REQUIRED).
- CONCRETE SUPPORT UNDER TAPPING SLEEVE & BEHIND.
- THRUST BLOCK AS PER SPECIFICATIONS.
- FLANGED & HUB ENDS "O" RING SEALS WITH SQUARE WRENCH NUT GATE VALVE.
- ANCHOR RODS
- PVC PIPE
- COMPLEX COUPLING

EXISTING PIPE

D

CONCRETE