ITEM NO. 833
METER AND METER BOX INSTALLATION

833.1 **DESCRIPTION:** This item shall consist of meter and meter box installation and adjustment installed in accordance with these specifications and as directed by the Engineer.

833.2 **MATERIALS**: The materials for meter and meter box installation and adjustment shall conform to the specifications contained within the latest revision of SAWS' Material Specification "Meter Boxes", Item No. 10-30.

833.3 **CONSTRUCTION:**

1. Physical movement of existing meters and meter boxes to new locations may be required where service lines are transferred to new mains in conjunction with main replacement work. Unless specified otherwise, the Contractor shall move existing meters and meter boxes and reconnect and adjust customer's yard piping as part of transferring service lines. A dielectric coupling PVC schedule 80 shall be installed within the meter box between the meter and the customer's yard piping.

   Round and oval meter boxes with round covers shall be salvaged and returned to the Owner by the Contractor. The Contractor shall also replace the salvaged meter boxes with the new, appropriately styled oval plastic meter box with oval cover, or rectangular meter box. Unless otherwise specified, the old service line shall be abandoned after the existing meter has been reset in the existing or new meter box.

   Where meter boxes are installed in sidewalks or driveways, the Contractor shall install a number one meter box (2 pieces) as shown in the Material Specifications Item No. 10-30 and Standard Drawings DD-833 Series.

   New meters will be set by the Owner where mains are extended and new services lines are installed for new or initial customer service. In lieu of the new meter, the Contractor shall furnish and install a meter template in accordance with Standard Drawings DD-833 Series.

   Meter and meter box configuration, shall have the meter set horizontal, approximately 6 inches below the top of meter box, so that the meter is above the bottom of the meter box and inline with the meter box lid opening. The top of the meter box shall be flush with the existing ground surface. All excess soil above the meter coupling, meter flange and meter nuts inside the meter box shall be removed so that the meter register is

clearly visible. The Contractor shall exercise special precautions during excavation at the existing meter location in order to minimize the disturbance of the customer's yard piping. However, if the existing meter elevation is low, the Contractor shall raise the existing meter to conform to the correct configuration indicated herein. Adjustment of meter to proper grade is incidental to the construction and will not be paid for separately.

Where required, pressure reducing valves shall be installed by the customer in accordance with the Uniform Plumbing Code and shall be placed beyond the outlet side of the meter, but not within the Owner's meter box. The pressure reducing valve shall be the property of the water user who will be responsible for its installation, maintenance, and replacement as required.

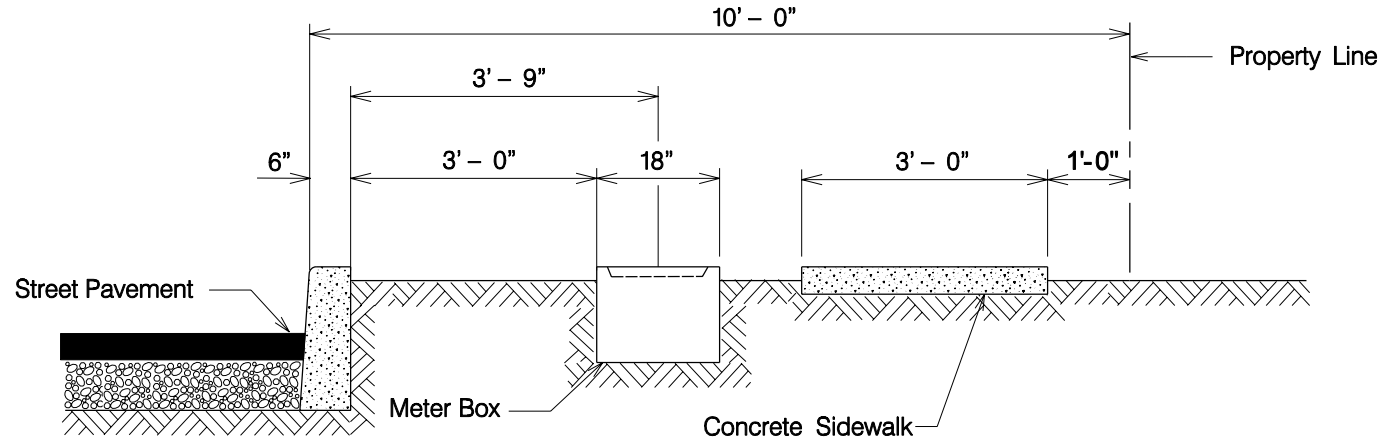
2. The meter box adjustment shall not exceed 10 linear feet from the existing box.

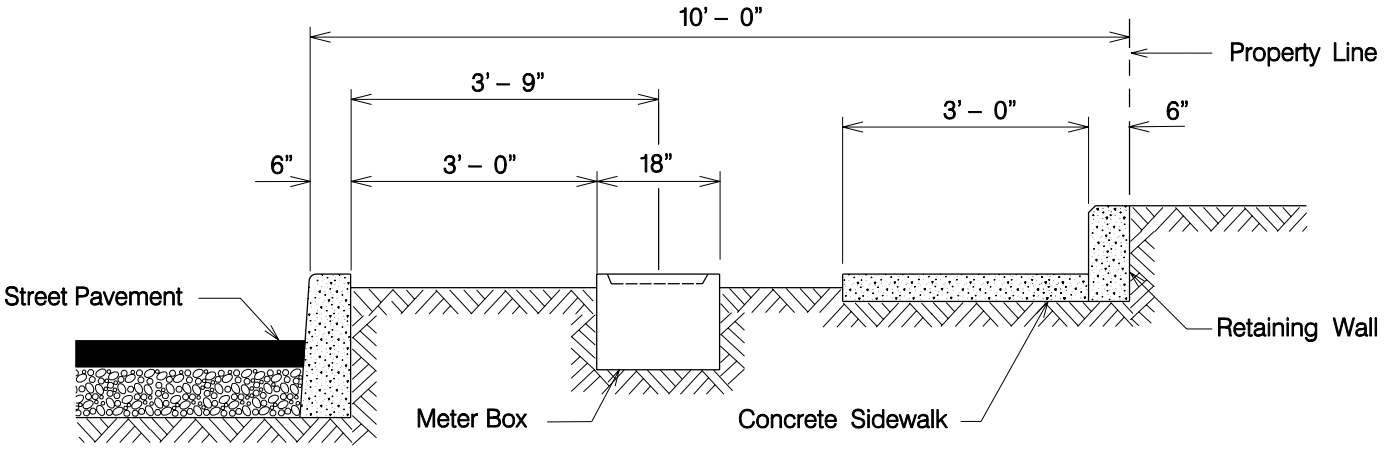
833.4 **MEASUREMENT:** Relocation of meters and boxes will be measured by the unit of the various types and sizes of meters and boxes relocated.

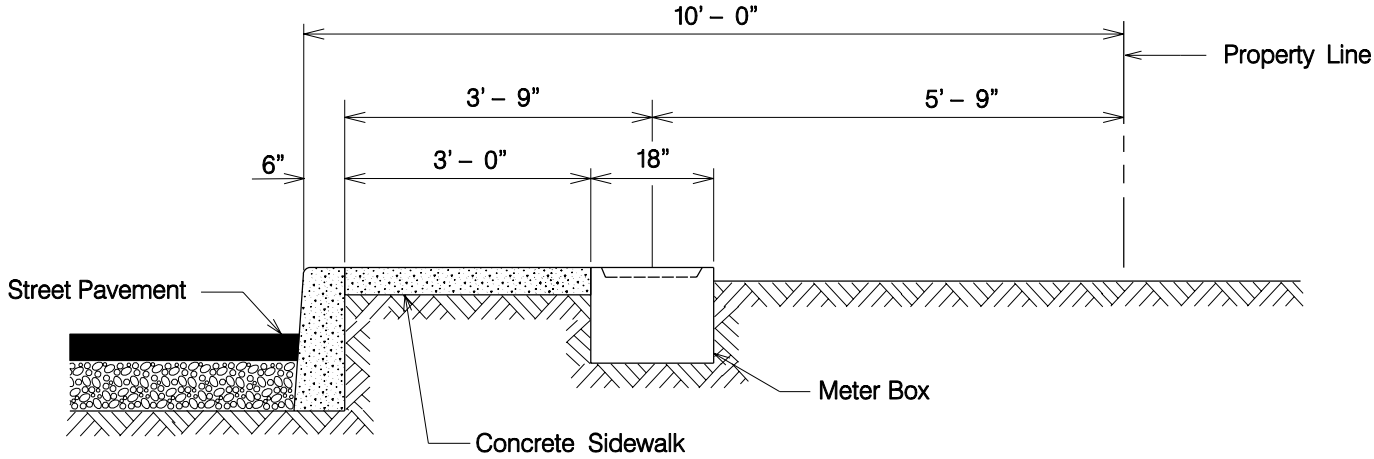
833.5 **PAYMENT:** Payment for "Existing Meter and Existing Meter Box Relocation (⅝ inch through 2 inch meter)" will be made at the unit price bid for each existing meter and existing meter box relocated. Such payment shall also include; excavation, hauling and disposition of surplus materials, sand backfill, removal and replacement of yard piping with copper tubing of the various types and sizes and in the quantities necessary to complete the connection and adjustment between the relocated existing meter and existing meter box, and the existing yard piping.

Payment for "Existing Meter and New Meter Box Relocation (⅝ inch through 2 inch meter)" will be made at the unit price bid for each existing meter relocated to a new meter box. Such payment shall also include excavation, hauling and disposition of surplus materials, sand backfill, removal and replacement of whatever type surface structure encountered, salvaging the existing meter box, reconnection and adjustment of yard piping with copper tubing of the various types and sizes and in the quantities necessary to complete the connection between the relocated existing meter and new meter box, and the existing yard piping.

Payment for number one meter box installation in sidewalks and driveways shall be paid in the amount of difference between the standard meter box and the number one box.

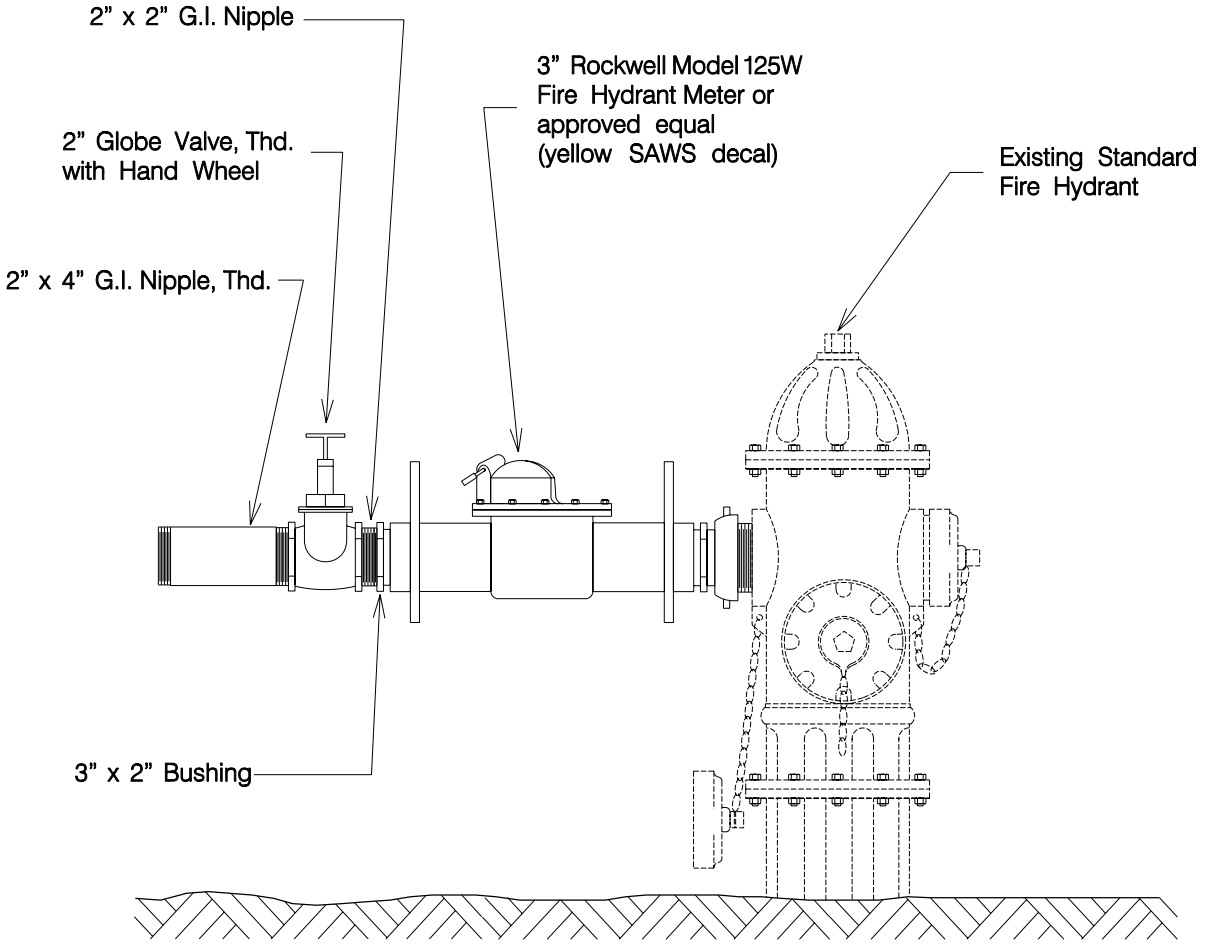






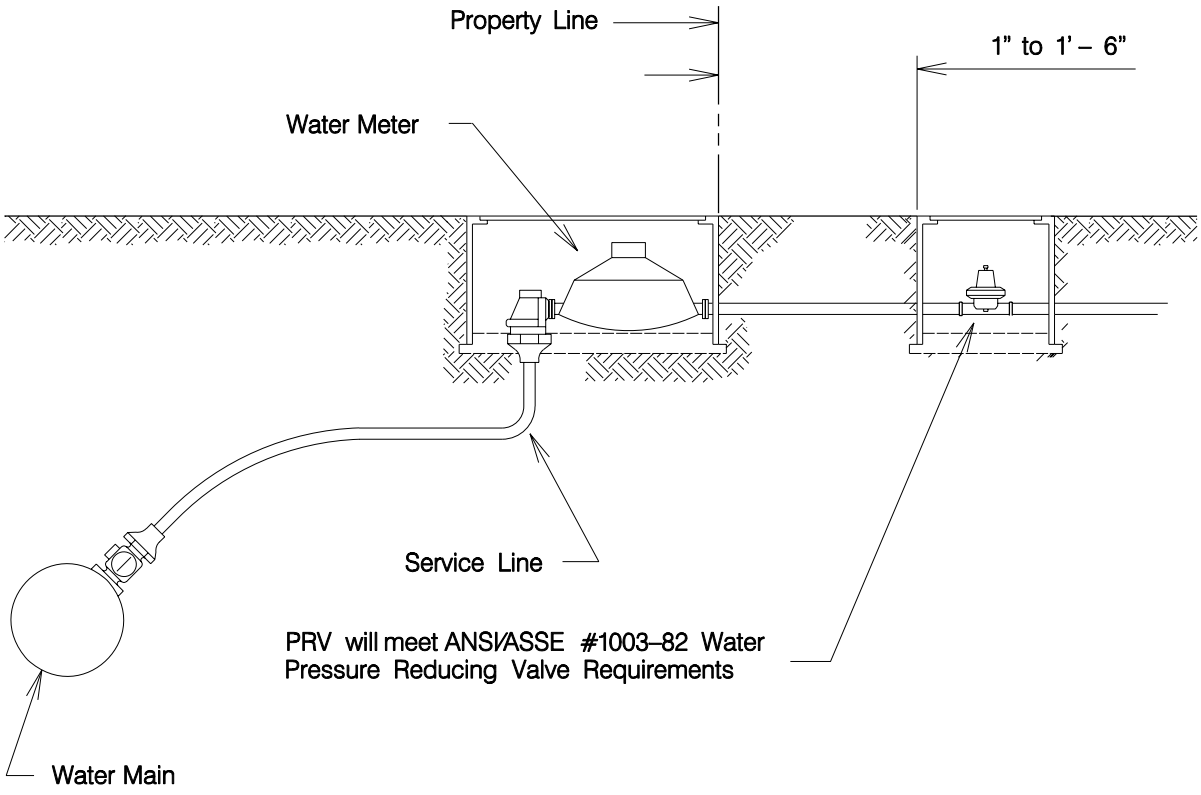
Note:
Meter Box location in commercial and industrial areas will be as directed by the Engineer

PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	TYPICAL METER BOX LOCATION (RESIDENTIAL)	APPROVED March 2008	REVISED
		DD–833–01	SHEET 1 OF 1



NOT TO SCALE

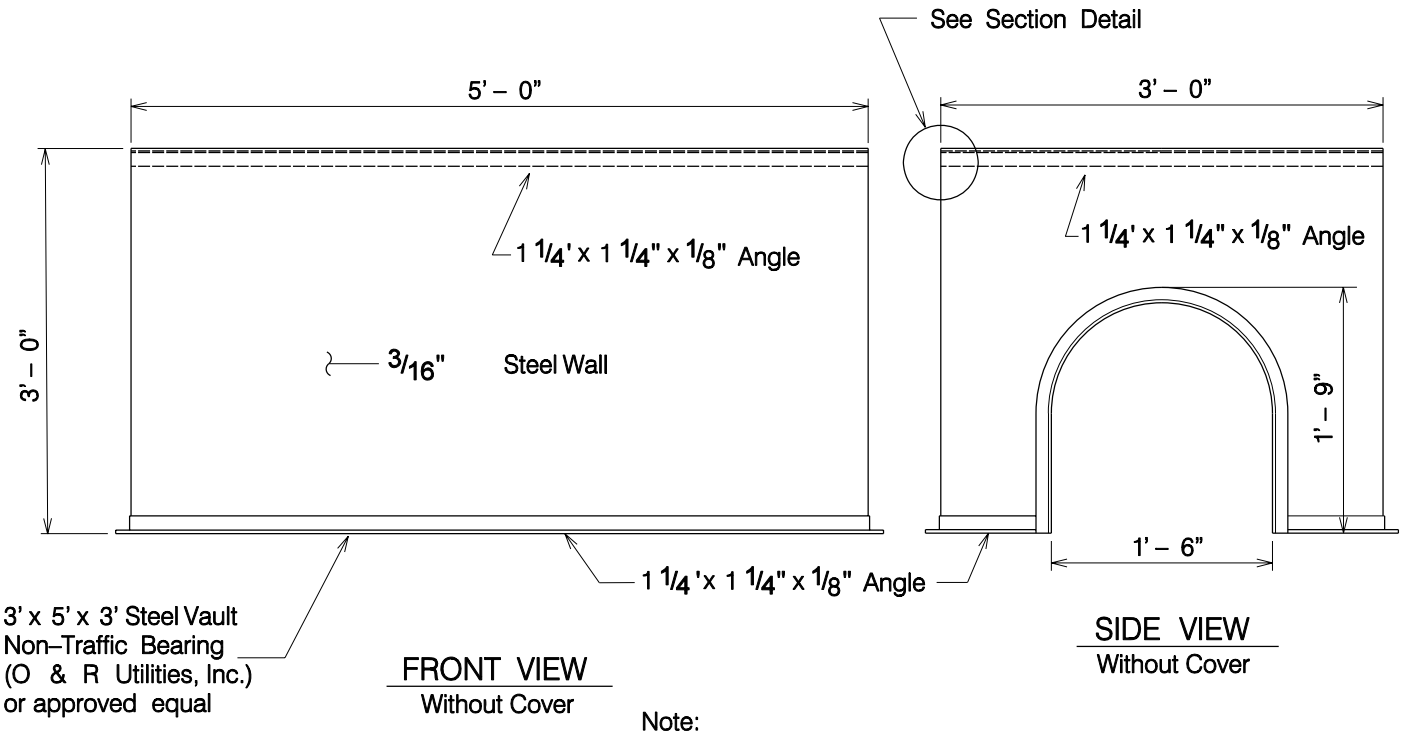
PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	TEMPORARY 3" FIRE HYDRANT METER	APPROVED March 2008	REVISED
		DD–833–02	SHEET 1 OF 1



3/4" THRU 2" SERVICE
PRESSURE REDUCING VALVE

Note:
For Tapping Schedule, See DD–30–00 Sheet 3 of 3

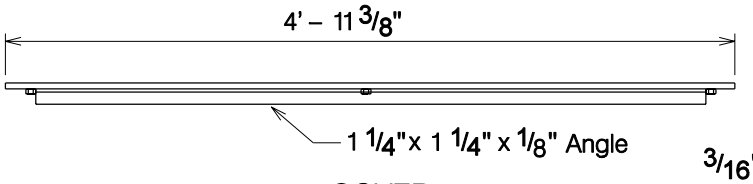
PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	SERVICE INSTALLATION WITH PRESSURE REDUCING VALVE	APPROVED March 2008	REVISED
		DD–833–03	SHEET 1 OF 1



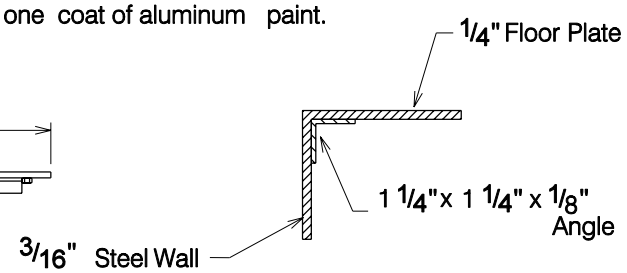
FRONT VIEW
Without Cover

SIDE VIEW
Without Cover

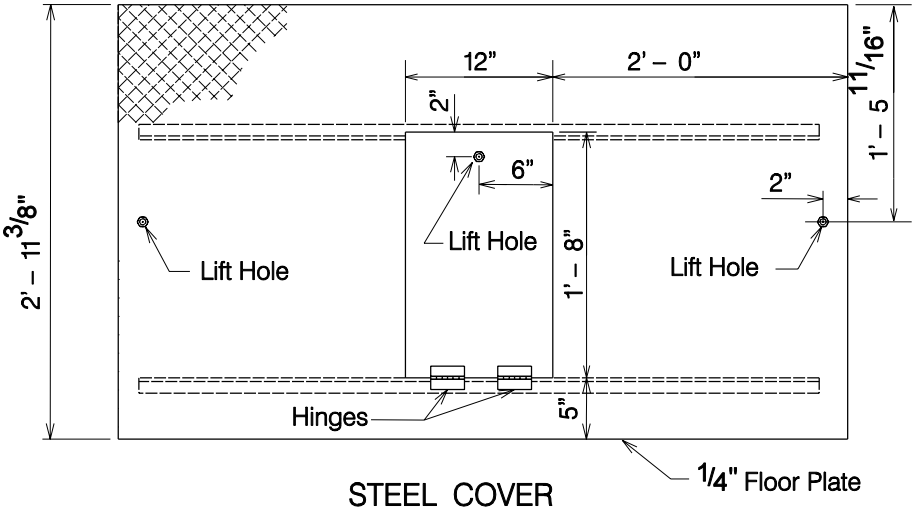
Note:
Paint inside of vault with one coat of rust–inhibitive primer and outside with one coat of rust–inhibitive primer plus one coat of aluminum paint.



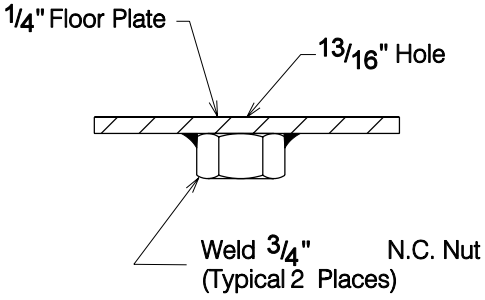
COVER



SECTION DETAIL



STEEL COVER



LIFT HOLE

3' x 5' x 3' RECTANGULAR STEEL VAULT
(NON–TRAFFIC BEARING LOCATION)

PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	VAULT FOR 3", 4", 6" & 8" TURBINE METER AND 6" & 8" DETECTOR CHECK INSTALLATION	APPROVED March 2008	REVISED
		DD–833–04	SHEET 1 OF 1