ITEM NO. 844
BLOW-OFF ASSEMBLIES

844.1 DESCRIPTION: This item shall consist of blow-off assemblies installed in accordance with these specifications and as directed by the Engineer.

844.2 MATERIALS: The materials for blow-off assemblies, installation and adjustment shall conform to the specifications contained within the latest revision of SAWS’ Material Specification.

844.3 CONSTRUCTION: Permanent and temporary blow-off assemblies shall be installed where shown on the plans and/or at locations designated by the Engineer/Owner and at the end of all dead end mains in accordance with the Texas Administrative Code (TAC) rules to include 30 TAC § 290.44.(d)(5), (6). The permanent blow-off shall consist of the following: all galvanized iron pipe, valve, and fittings of the various sizes shown on the plans, 6 inch valve box assembly and concrete collar around the valve box. The temporary blow-off shall consist of the following: all galvanized iron pipe, valve and fittings of the various sizes shown on the plans. Valve box shall be raised or installed to finished grade and installed in accordance with Standard Drawing DD-844 Series.

844.4 MEASUREMENT: Permanent Blow-off assemblies will be measured by the unit of each such assembly of the various sizes of permanent blow-offs installed.

Temporary Blow-off assemblies will be measured by the unit of each such assembly of the various sizes of temporary blow-offs installed.

844.5 PAYMENT: Payment for Permanent and Temporary Blow-off will be made at the unit price bid for each such assembly of the various types and sizes installed in accordance with the details shown in the Standard Drawing DD-844 Series. Such payment shall also include excavation, selected embedment material, anti-corrosion embedment when specified, and the hauling and disposition of surplus excavated materials. Payment for eccentric reducers and eccentrically tapped caps and flanges will be made under Item No. 836, “Grey-Iron and Ductile-Iron Fittings,” while payment for the pipe nipple with reaction stop ring will be made under Item No. 812, "Water Main Installation."

- End of Specification -
PLAN

SECTION A-A

* Cut as required to extend beyond excavation
SECTION A-A

Ground or Street Surface

Restained

12" or 16" x 2" Eccentrically Tapped Cap, M.J.

2" x 12" G.I. Nipple, Thd.

2" Ball Valve, Thd.

2" x 6" G.I. Nipple, Thd.

2" 90° G.I. Ell, Thd.

2" G.I. Solid Plug, Thd.

2" G.I. Pipe, Thd. (Cut as Required)

1" Eccentric Tap
1" Solid Plug, Thd.

* Cut as required to extend beyond excavation.
* Cut as required to extend beyond excavation.

**Property of**
SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS

**2" (TEMPORARY) BLOW-OFF ASSEMBLY**
ON 6" & 8" D. I./P.V.C. MAINS
(JOINT RESTRAINT)

**APPROVED**
MARCH 2008

**REVISED**
APRIL 2014

**DD-844-01**
SHEET 3 OF 4
* Cut as required to extend beyond excavation.
SAN ANTONIO, TEXAS
PROPERTY OF SAN ANTONIO WATER SYSTEM
SHEET 1 OF 5

APPROVED MARCH 2008
REVISED APRIL 2014

#2 Meter Box, Complete
6" Valve Box & Lid only
2" SCH 40 Plug, Thd.
2" PVC SCH 40 Plug, Thd.
2" G.I. Coupling, Thd.
2" x " G.I. Nipple, Thd.
Concrete Support
2" G.I. Pipe, Thd.
2" 90° G.I. Ell, Thd.
12" or 16" x 2" Eccentrically Tapped Cap, M.J.
12" or 16" M.J. Retainer Gland

PLAN

% Cut to fit in meter box.

SECTION A-A

12" or 16" Main

All Galvanized pipe must be
wrapped with a 50% overlap
with pipe tape.

1" Eccentric Tap & 1" Solid Plug

2" Ball Valve, Thd.

2" x " G.I. Nipple, Thd.

Concrete Support

2" 90° G.I. Ell, Thd.

12" or 16" x 2" Eccentrically Tapped Cap, M.J.

12" or 16" M.J. Retainer Gland

* Cut to fit in meter box.

2" PERMANENT BLOW-OFF ASSEMBLY ON 12" & 16" MAINS

DD-844-02
BLOW-OFF MEASUREMENT: From the Southwest Corner of "A" St. and "B" St. West 306' and North 13' to Eccentric Reducer, and West 332' and North 8' to Blow-Off Assembly.
**Cut to fit in meter box.**

- **2" Permanent Blow-Off Assembly on 6" & 8" Mains**
- **Approved March 2008**
- **Revised April 2014**

**Property of San Antonio Water System, San Antonio, Texas**

**Sheet 3 of 5**

- **2" Cast Coupling**
- **Ground Line**
- **6" Valve Box & Lid only**
- **2" PVC SCH 40 Plug, Thd.**
- **2" G.I. Coupling, Thd. (2" Min. and 7" Max. from surface)**
- **2" G.I. Pipe, Thd.**
- **2" Angle Valve (Ball-type only)**
- **Ground Line**
- **2" Angle Valve (Ball-type only)**
- **Ground Line**
- **2" x 4" G.I. Nipple, Thd.**
- **Concrete Support**
- **2" G.I. Pipe, Thd.**
- **2" 90° G.I. Ell, Thd.**
- **2" x 12" G.I. Nipple, Thd.**
- **2" Cast Coupling**
- **Ground or Street Surface**
- **2" x 4" G.I. Nipple, Thd.**
- **6" or 8" M.J. x 2" Thd. C.I. or D.I. Eccentric Reducer**
2" Blow-off Assembly to Be Installed in the Terrace Nearest to the Water Main

2" BLOW-OFF MEASUREMENT:
FROM THE SOUTHWEST CORNER OF "A" ST. AND "B" ST. WEST 306' AND NORTH 13' TO ECCENTRIC REDUCER, AND WEST 332' AND NORTH 8' TO BLOW-OFF ASSEMBLY

R. L. = RESTRAINED LENGTHS TO BE DETERMINED BY ENGINEER.
PLAN

Temporary timber stabilizer

Place timber & pipe strap to prevent lateral motion
1" Solid Plug, Thd.
1" Eccentric Tap & 1" G.I. Coupling welded to flange

4" G.I. Solid Cap, Thd.
4" G.I. Pipe, Thd. to extend beyond excavation
4" Ball Valve
2" x 2" G.I. Nipple, Thd.

4" - 90° Ell, Thd.
4" G.I. Pipe, Thd. (Cut as Required)

20" and Larger D.I. Main

4" x 18" or 20" Cap, Ecc Tapped, M.J.
4" x 12" G.I. Nipple, Thd.

SECTION A-A
C.S.C. Special Joint, Splgct x Flange D.I. O.D., with Reaction Stop Ring (11' - 0" L.L.)

Temporary timber stabilizer

PLAN

Place timber & pipe strap to prevent lateral motion
1" Solid Plug, Thd.
1" Eccentric Tap & 1" G.I. Coupling welded to flange

4" G.I. Solid Cap, Thd.
4" G.I. Pipe, Thd. to extend beyond excavation
4" Ball Valve
2" x 2" G.I. Nipple, Thd.
4" - 90° Ell, Thd.

4" G.I. Pipe, Thd. (Cut as Required)

Ground or Street Surface

20" and Larger C.S.C. Main
Standard C.S.C. Bell

4" x 20" (or larger) Dish Head Cap, Eccentric Tap
4" x 12" G.I. Nipple, Thd.

4" - 90° Ell, Thd.
4" x 18" G.I. Nipple, Thd.