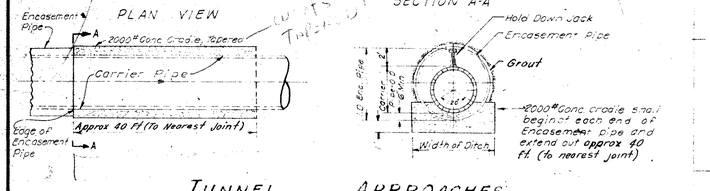
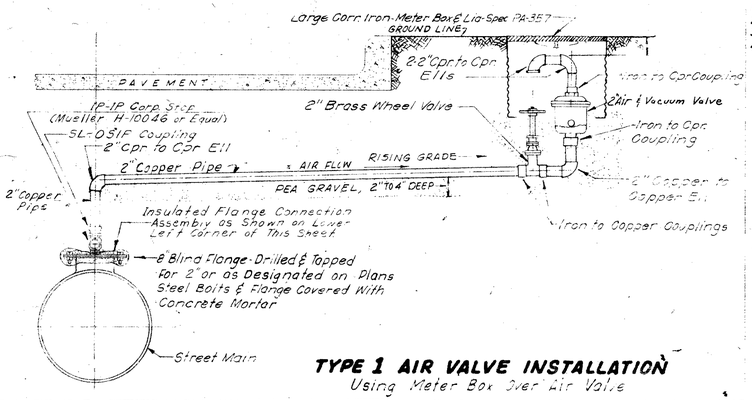
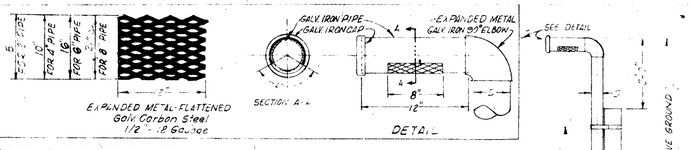


TUNNEL APPROACHES



TYPE 1 AIR VALVE INSTALLATION

Using Meter Box over Air Valve



SIZES FOR TYPE 2 AIR VALVES			
AIR VALVE	GATE VALVE	DRAIN PIPE	VENT PIPE
3"	3"	4"	4"
4"	4"	4	4"
6"	6"	6"	6"
8	8"	8"	8"

THIS RISER SHALL BE AS NEAR AS PRACTICAL TO 2 S.W. LINE AT LEAST 4' BEYOND THE SHOULDER OF THE ROAD. FOR BIDDING PURPOSES ONLY THIS WILL BE A MINIMUM OF 15 FT

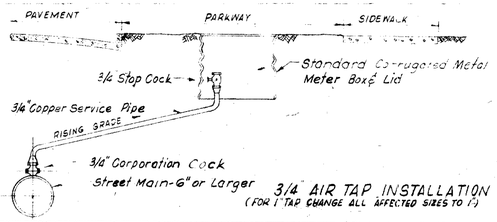
1 1/2" Strap-Drilled & Nailed to Post

Std 4'-6" I.D. Brick Vertical Wall
Std 22" C.I. Frame And Cover
GROUND LINE
Dresser Coupling-Light Pat.-3/16 Gauge, 4" Long
Galv. Iron Pipe Air Vent
RISING GRADE
Combined Air & Vacuum Air Release Valve - Flange Mounting
1/2" Mortar Coating
Insulated Flange Connection Assembly as shown on lower left corner of this sheet
REDUCER
STAG. STEPS
Gate Valve With Hand Wheel-Fig. F-9
18" Blind Flange Bored Drilled & Tapped for Valve Above
8 Flanged Outlet Up-Steel Bolts & Flange Covered With Concrete Mortar
2000# Concrete
DRAIN PIPE
Peg Gravel Pocket On Corner-See Top View
Standard Brick Manhole
Peg Gravel Pocket
Drain Pipe
SECTION
TOP VIEW OF TYPE 2 AIR VALVE

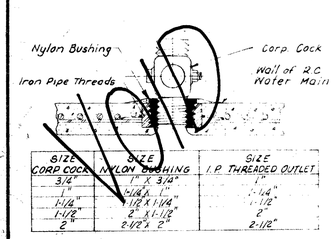
NOTE: THE PIPE MANUFACTURER SHALL SUPPLY THE 18" FLANGED OUTLET UP & THE 18" BLIND FLANGE BORED DRILLED & TAPPED FOR STUDGATE VALVE FLANGE. THE CONTRACTOR SHALL FURNISH AND INSTALL THE AIR VALVE FLANGE MOUNTING COMPLETE WITH ASSEMBLY-THE ASSEMBLY SHALL CONSIST OF GALV. IRON PIPE & FITTINGS AND FLANGED GATE VALVE. THE CONTRACTOR SHALL FURNISH ALL MATERIALS & CONSTRUCT THE 4'-6" DIA MANHOLE OVER EACH AIR VALVE COMPLETE WITH COVER. 2000# CONCRETE, GALV. PIPE AIR VENT WITH POST AND PIPE DRAIN UNDER MANHOLE WITH GRAVEL POCKET FOR DRAINAGE.

TYPE 2 AIR VALVE INSTALLATION

Using Manhole Over Air Valve

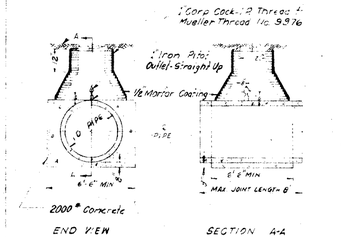


3/4" AIR TAP INSTALLATION
(FOR 1" TAP CHANGE ALL AFFECTED SIZES TO 1")

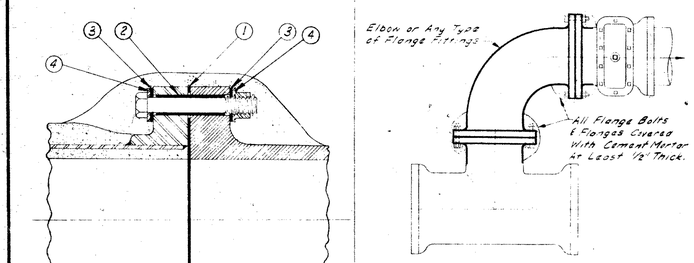


SIZE CORP COCK	NYLON BUSHING	SIZE I.P. THREADED OUTLET
3/4"	1" X 3/4"	1"
1"	1-1/4" X 1"	1-1/4"
1-1/4"	1-1/2" X 1-1/4"	1-1/2"
1-1/2"	2" X 1-1/2"	2"
2"	2-1/2" X 2"	2-1/2"

IRON PIPE THREADED OUTLET WITH NYLON BUSHING



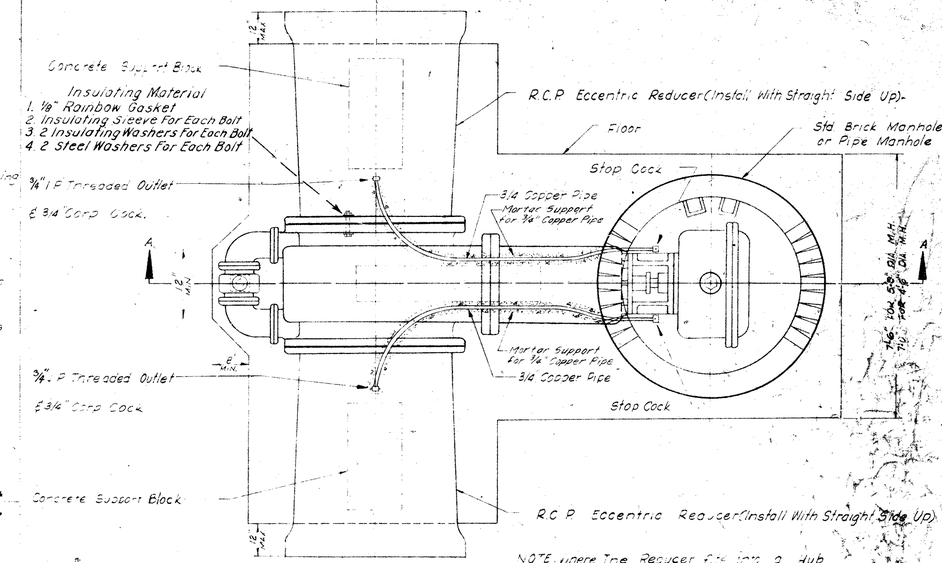
DETAIL OF PITOT OUTLET



Insulating Material
1. 1/8" Rainbow Gasket
2. Insulating Sleeve For Each Bolt
3. 2 Insulating Washers For Each Bolt
4. 2 Steel Washers For Each Bolt

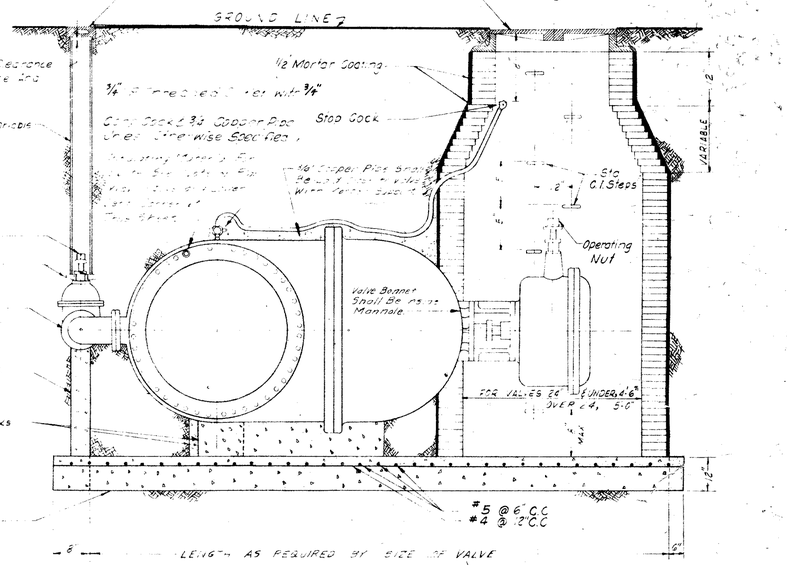
INSULATED FLANGE CONNECTION ON CONCRETE PRESSURE PIPE

MORTAR PROTECTION FOR TYPICAL C.I. FLANGE JOINT INSTALLATION



NOTE: Where the Reducer Fits Into a Hub End Valve, the Exposed Steel on End of Reducer Will be Wrapped with Wire Mesh & a Mortar Coat of ½" Minimum Thickness Will be Applied.

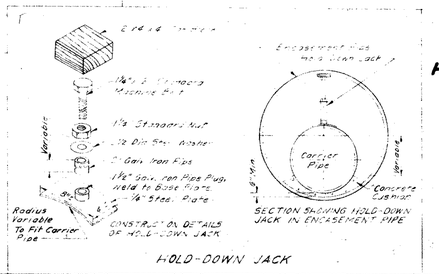
For Valves 24" & Under Construct 4'-6" Dia. Manhole. For Valves Over 24" Construct 5'-0" Dia. Manhole. Standard 22" Cast Iron Frame & Cover For All Size Manholes.



NOTE: Reinforcing Steel May be Omitted for Valves 24" & Under

HORIZONTAL VALVE INSTALLATION

Using Manhole Over Gear Case



HOLD-DOWN JACK

Attch 3

VALVE INSTALLATIONS
DALLAS CITY WATERWORKS
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE		FILE	NO.
R.E.M.	LOVE	1-64	NONE		414-D	11