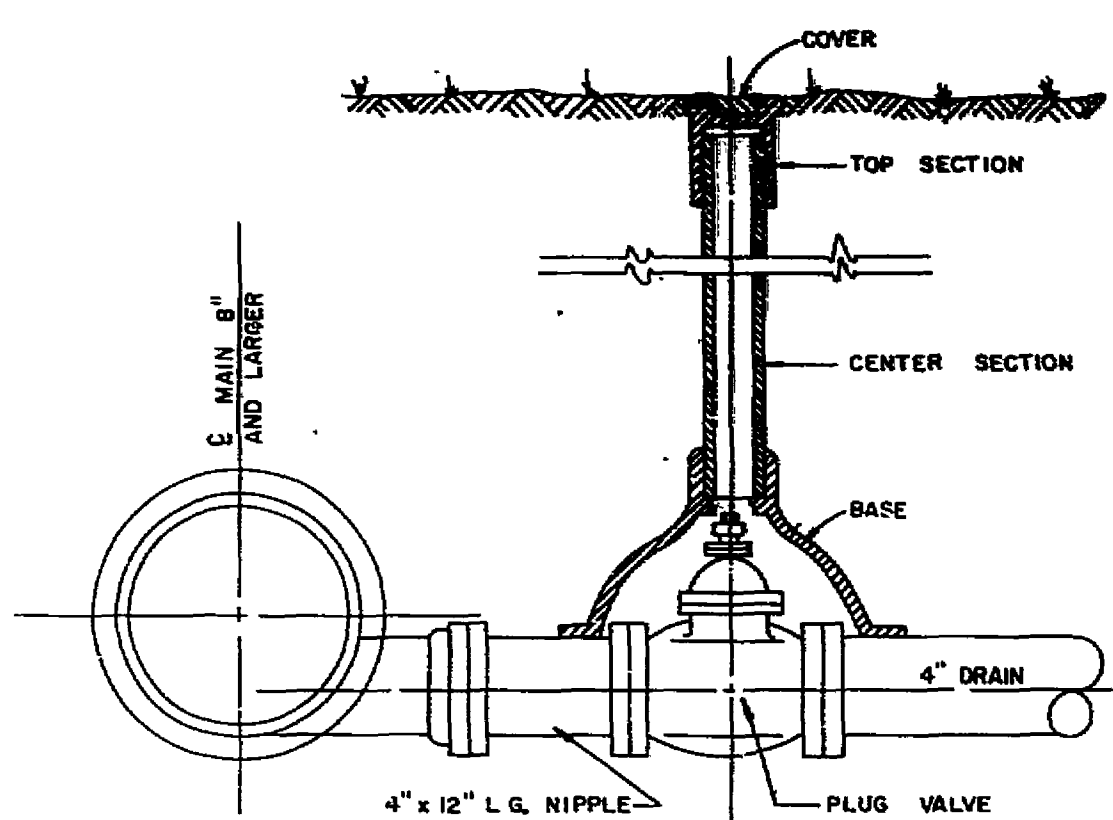
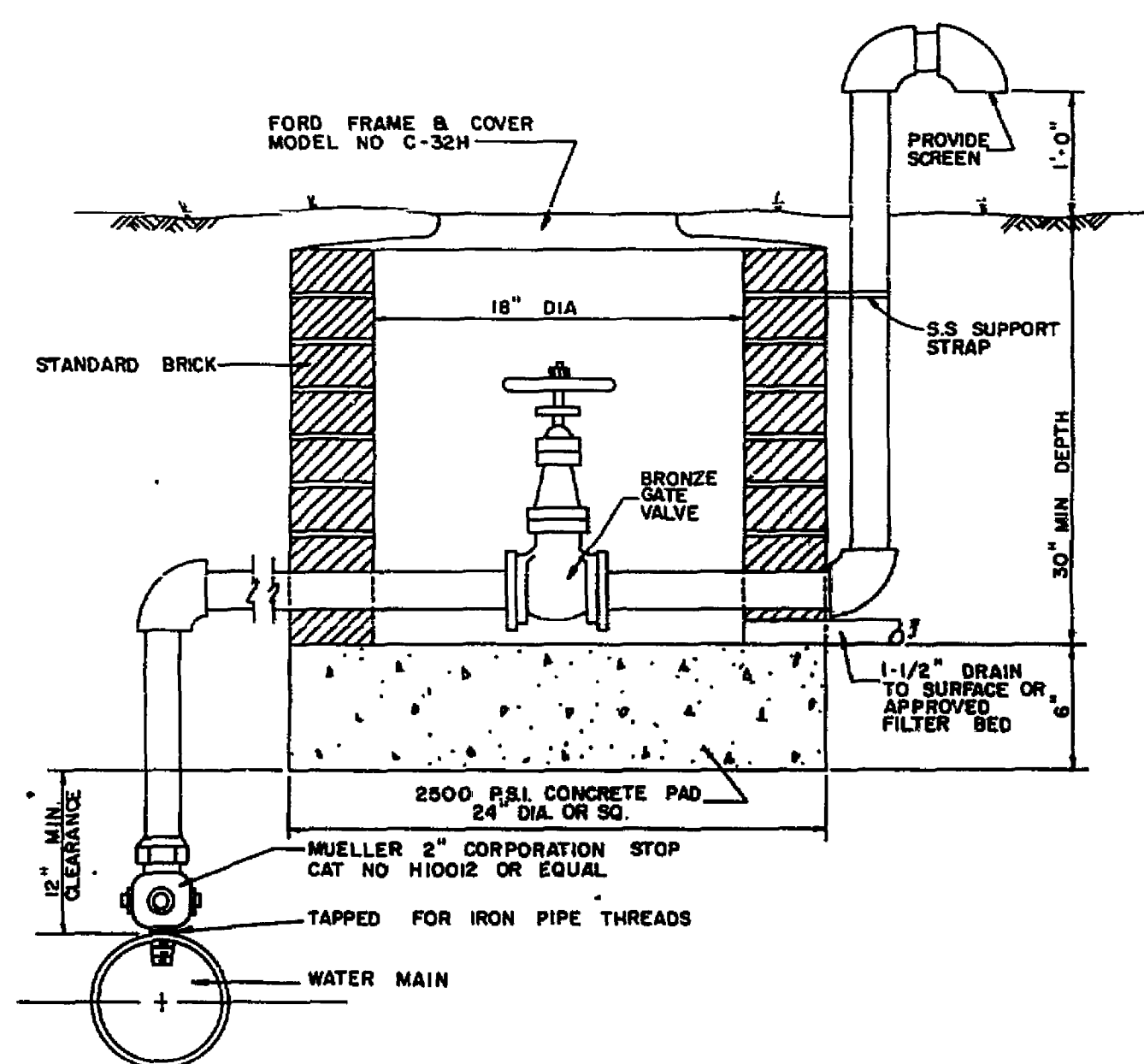
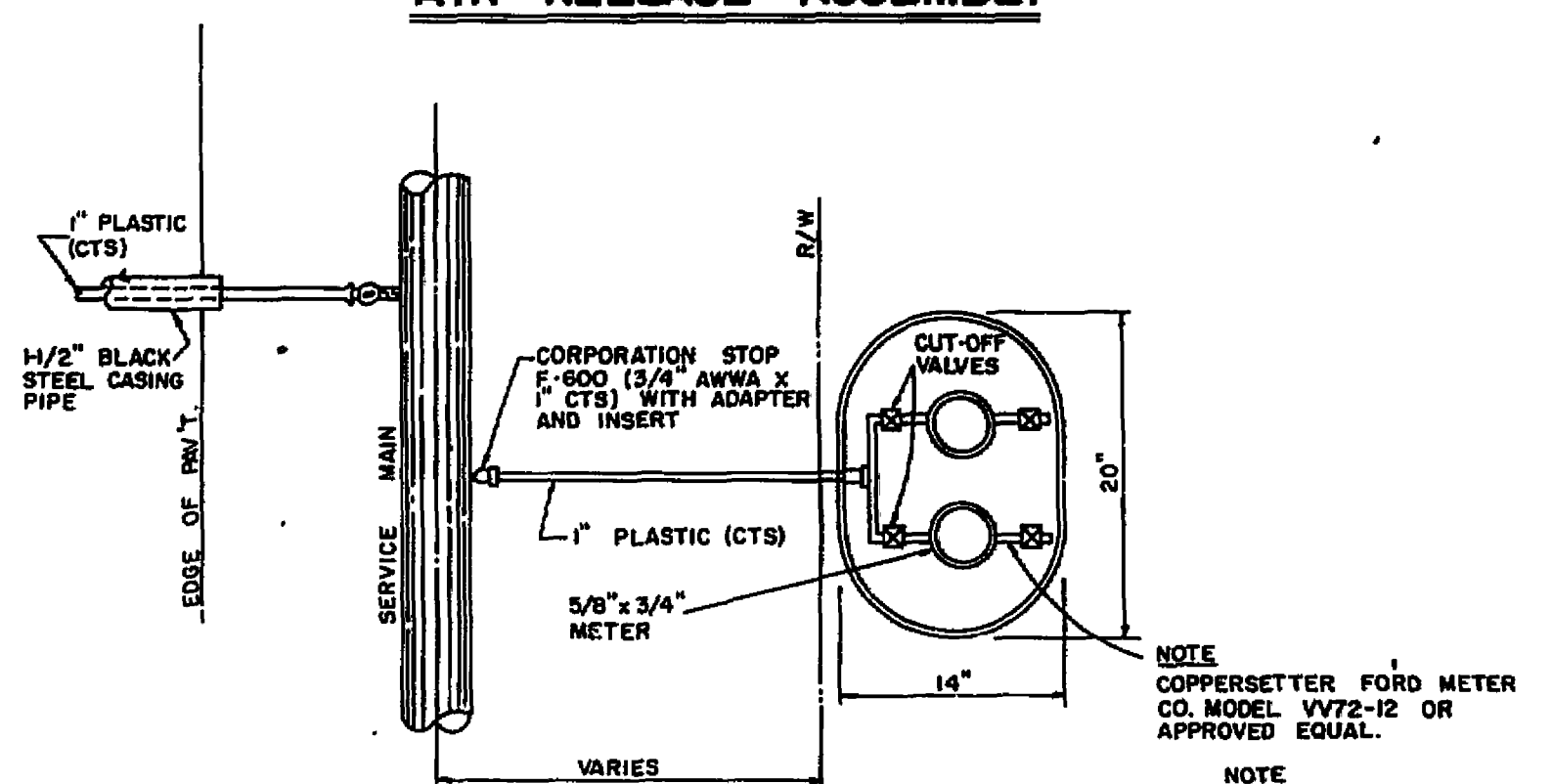




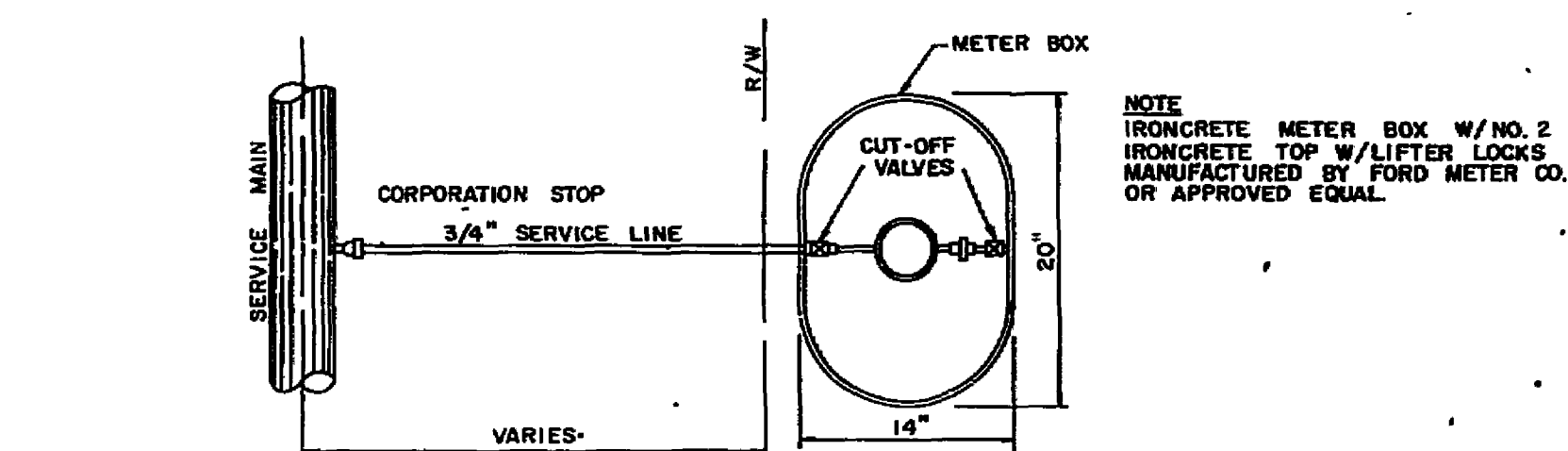
**BLOW OFF ASSEMBLY
TYPE I**



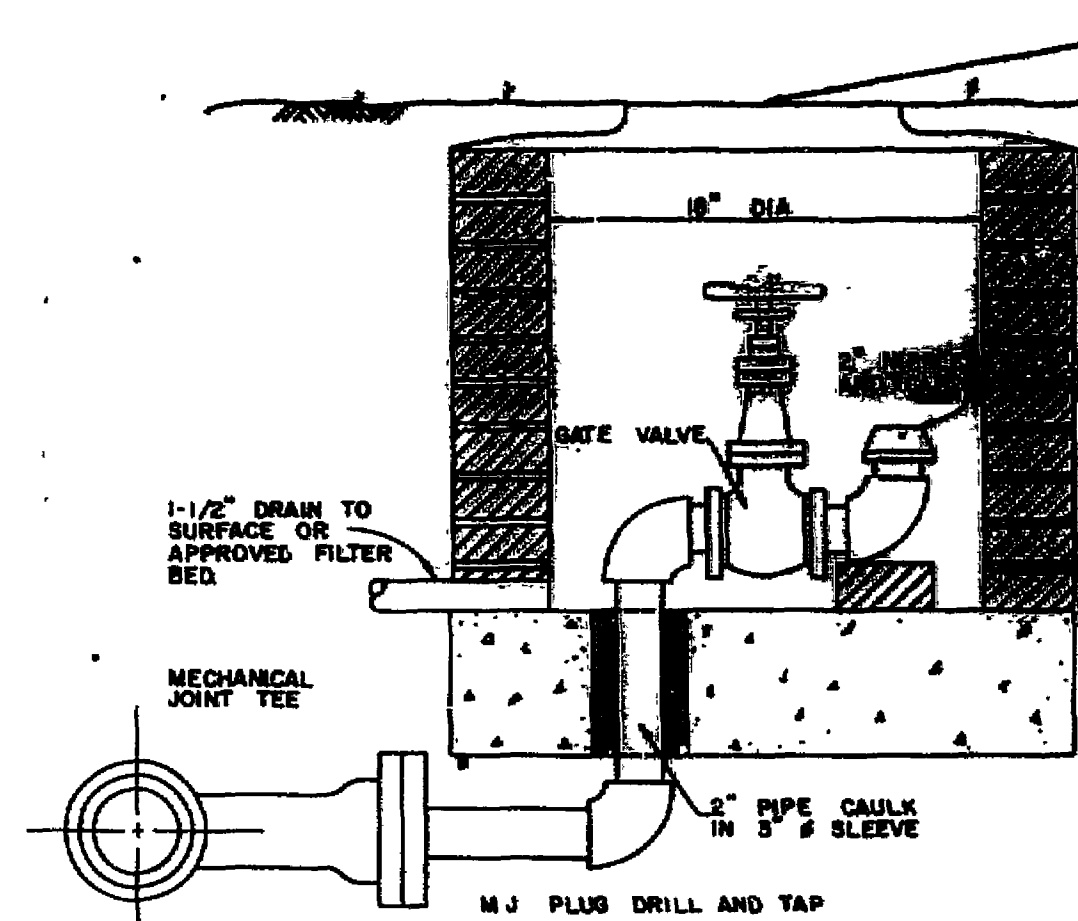
AIR RELEASE ASSEMBLY



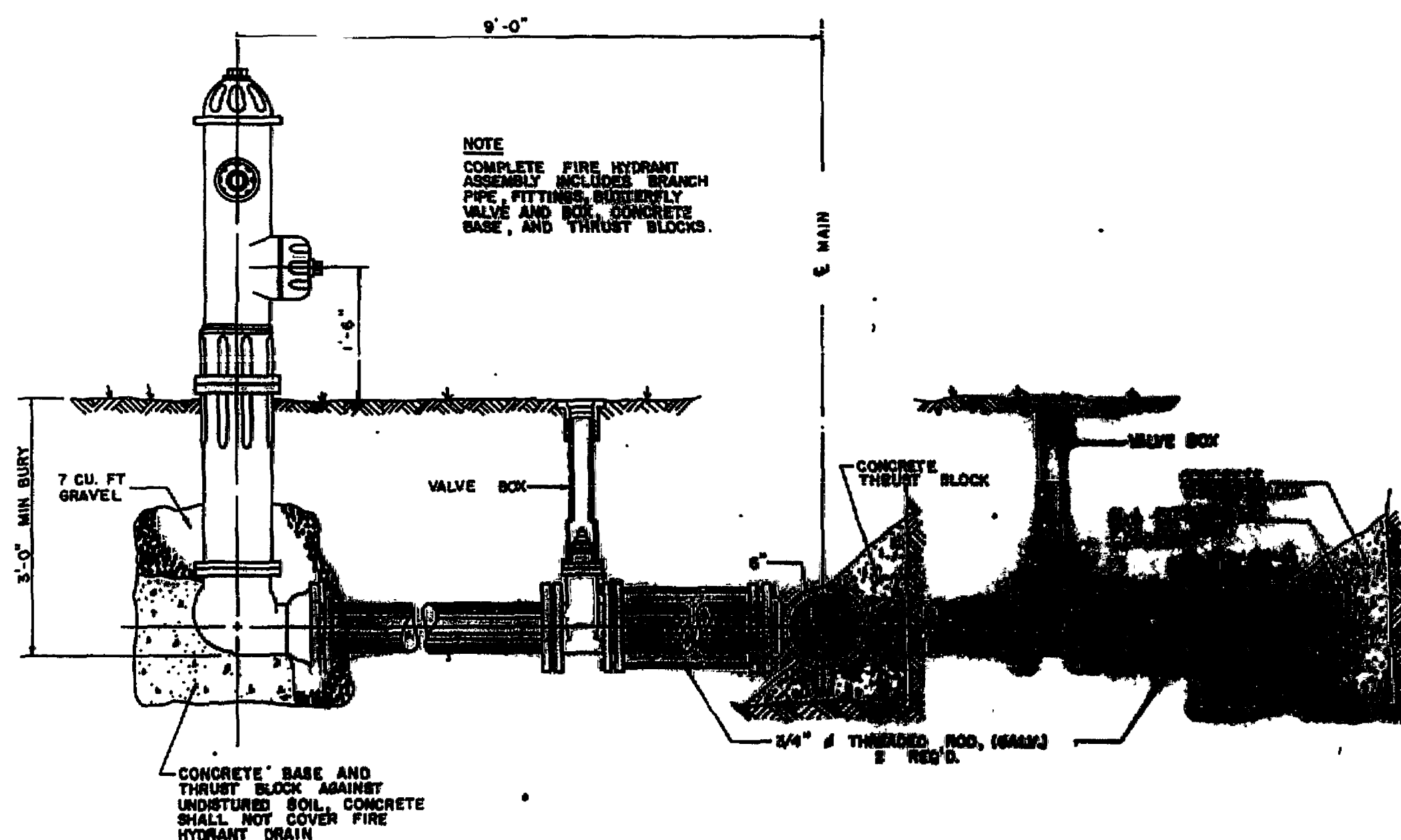
DOUBLE SERVICE CONNECTION TYPICAL



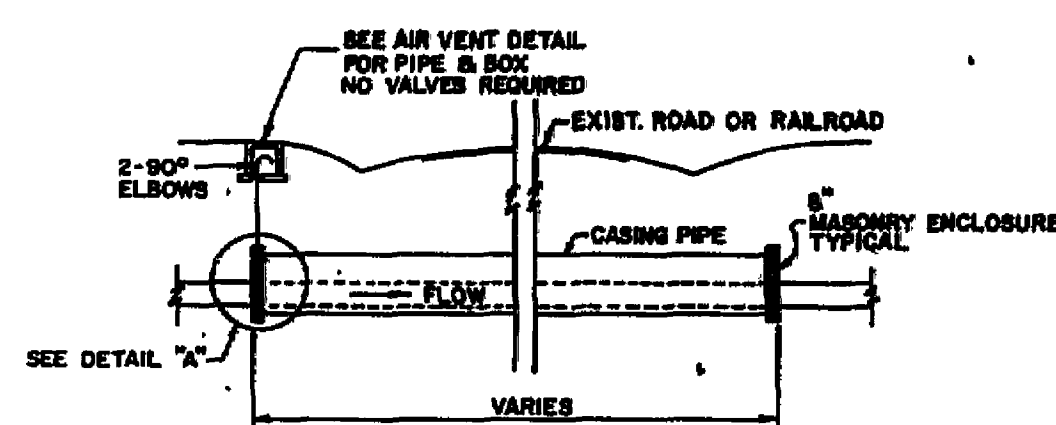
SINGLE SERVICE CONNECTION TYPICAL



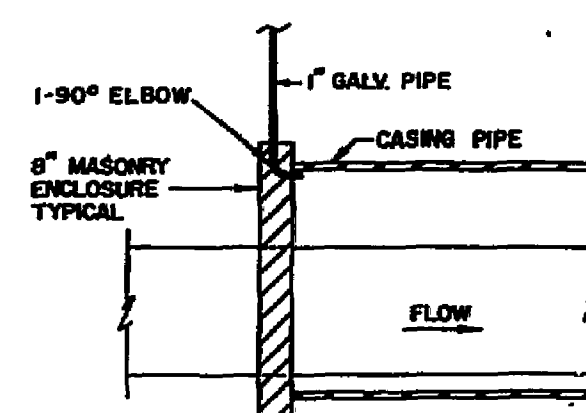
**BLOW OFF ASSEMBLY
TYPE II**



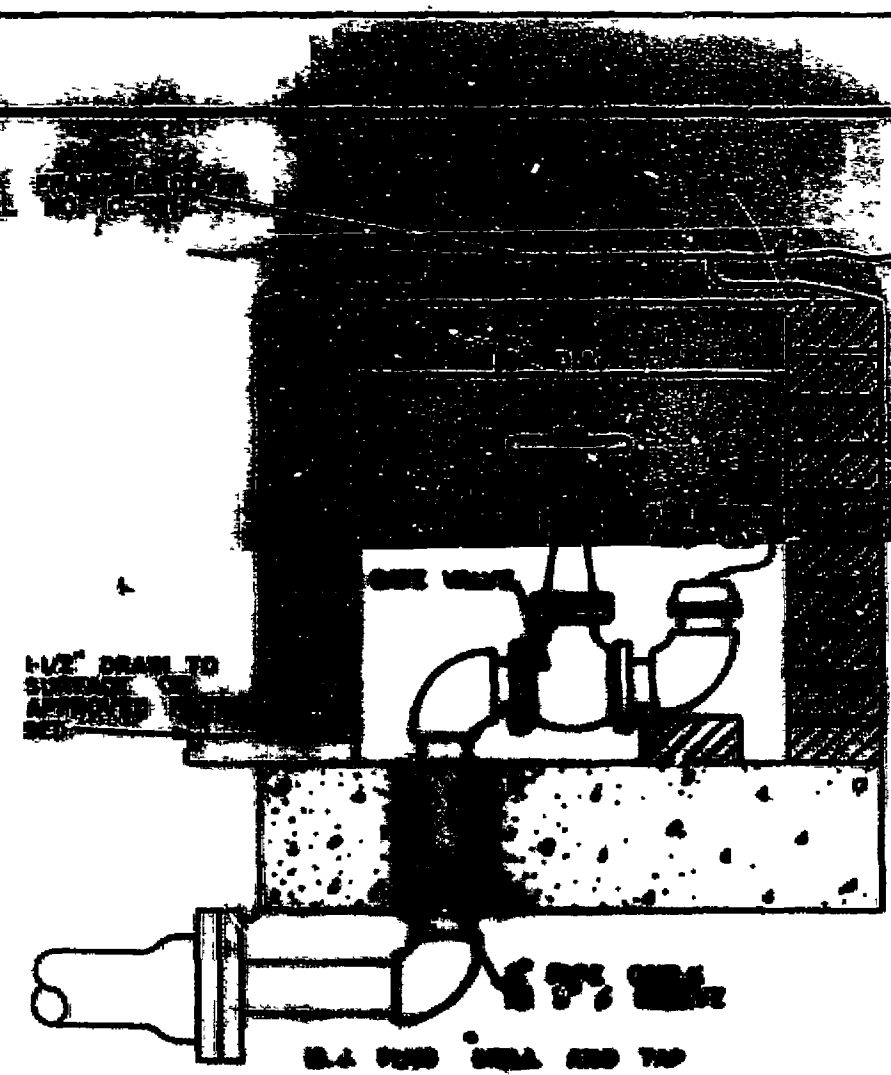
FIRE HYDRANT SETTING



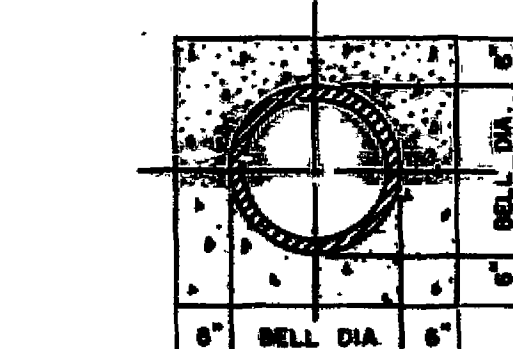
BORED CROSSING



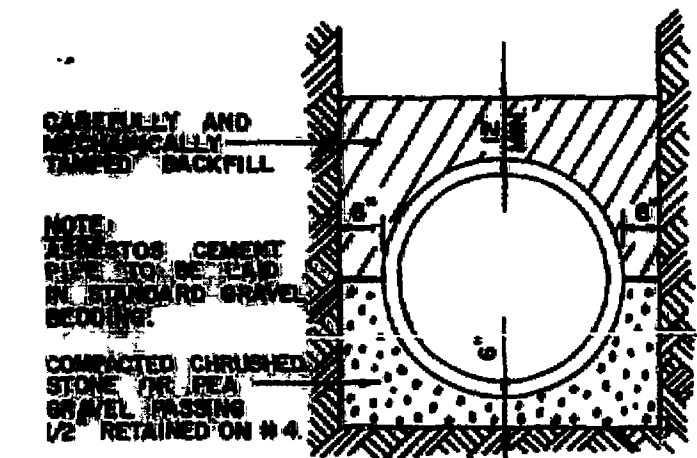
DETAIL A



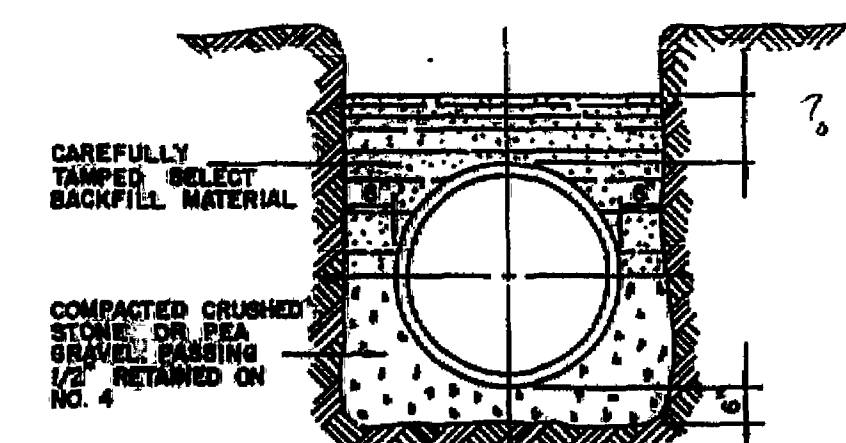
BLOW OFF ASSEMBLY



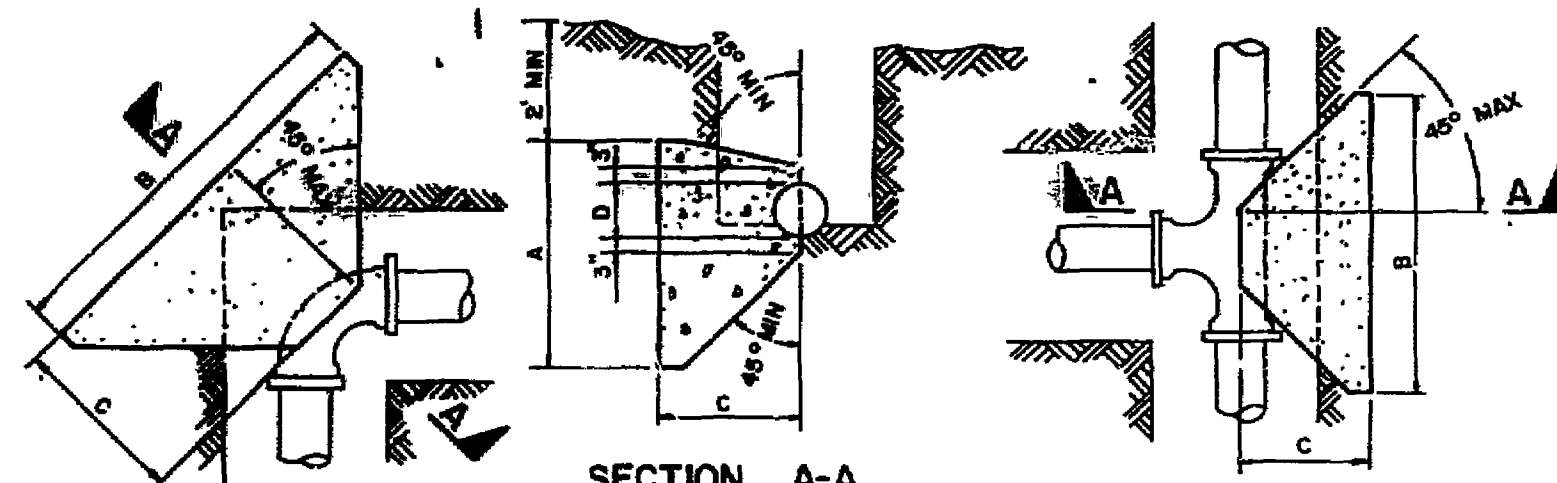
CONCRETE ENCASEMENT



**STANDARD GRAVEL
BEDDING**



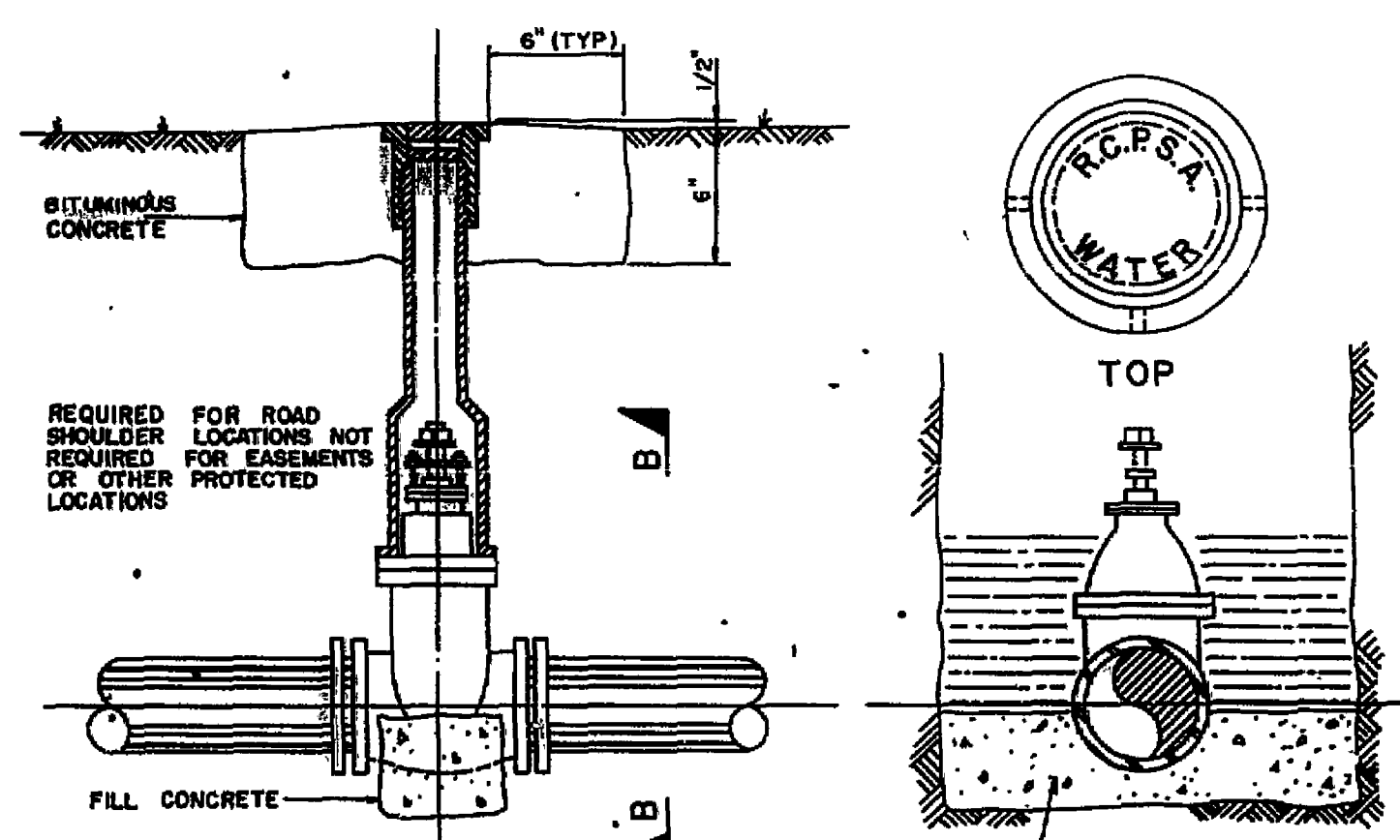
**GRANULAR BEDDING
AND BACKFILL MATERIAL**



THRUST BLOCK

PIPE SIZE	TEE OR DEAD END	90° BEND	45° BEND	22 1/2° & 11 1/4° BENDS
8"	2.0	3.5	2.0	2.5
10"	3.0	4.5	2.0	2.5
12"	4.0	5.5	2.0	2.5
14"	5.0	6.5	2.0	2.5
16"	6.0	7.5	2.0	2.5
18"	7.0	8.5	2.0	2.5
20"	8.0	9.5	2.0	2.5
22"	9.0	10.5	2.0	2.5
24"	10.0	11.5	2.0	2.5
26"	11.0	12.5	2.0	2.5
28"	12.0	13.5	2.0	2.5
30"	13.0	14.5	2.0	2.5

NOTE
CONCRETE SHALL NOT BE
POURED ON JOINTS,
LIMITING FLEXIBILITY



VALVE BOX INSTALLATION & VALVE SETTING



ROANOKE COUNTY PUBLIC SERVICE AUTHORITY
ROANOKE COUNTY, VIRGINIA
WATER FACILITY IMPROVEMENTS
WOODLANDS INTERCONNECTION
PROJECT NO. 78-1-W
DETAIL SHEET

DESIGNED BY: WILLIAM C. OVERMAN ASSOCIATES, P.C.
DRAWN BY: R.D.H.
CHECKED BY: W.E.C.
DATE: DEC. 1977
SHEET: 1 OF 1
DWG. NO. 6871

