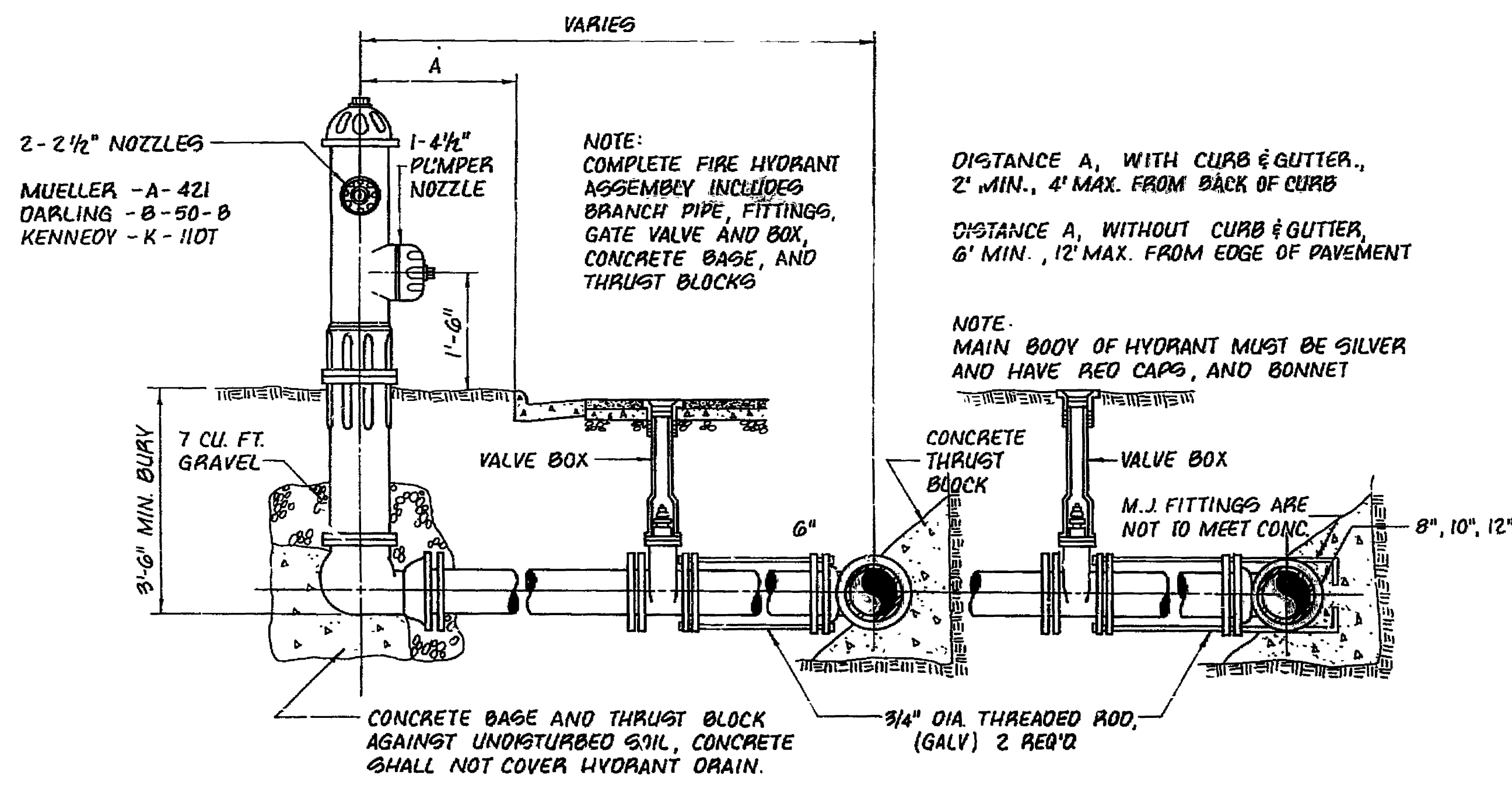
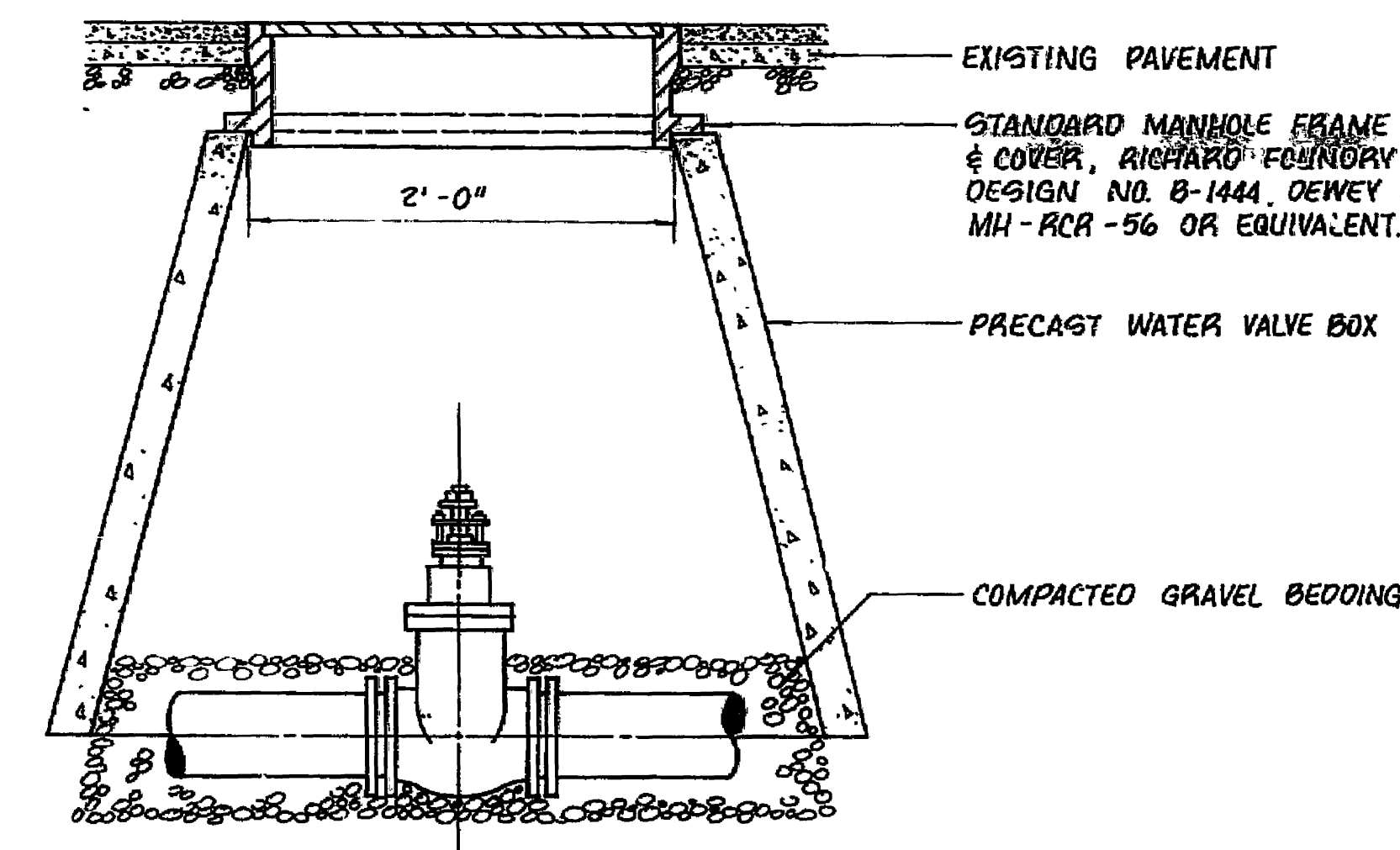
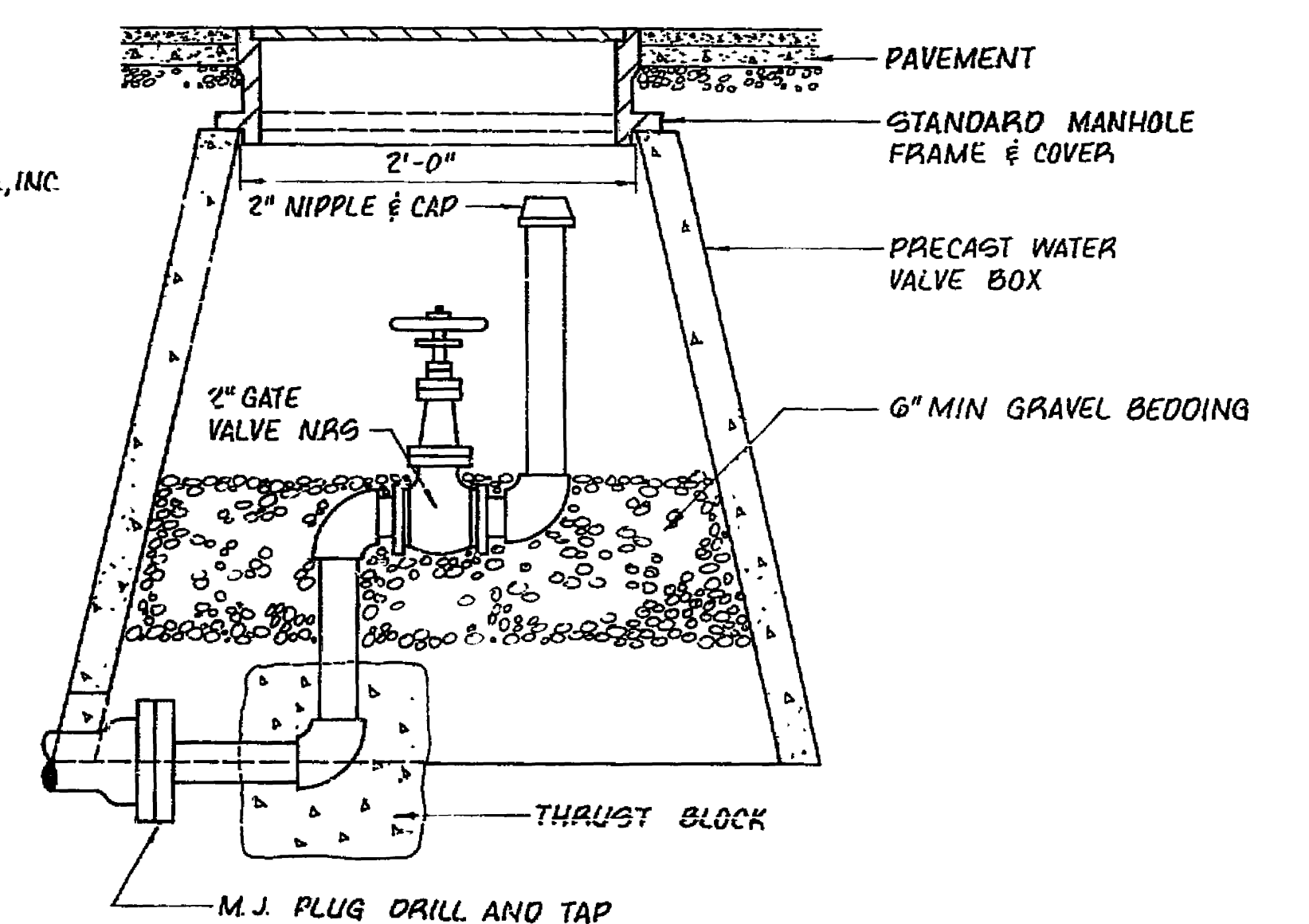




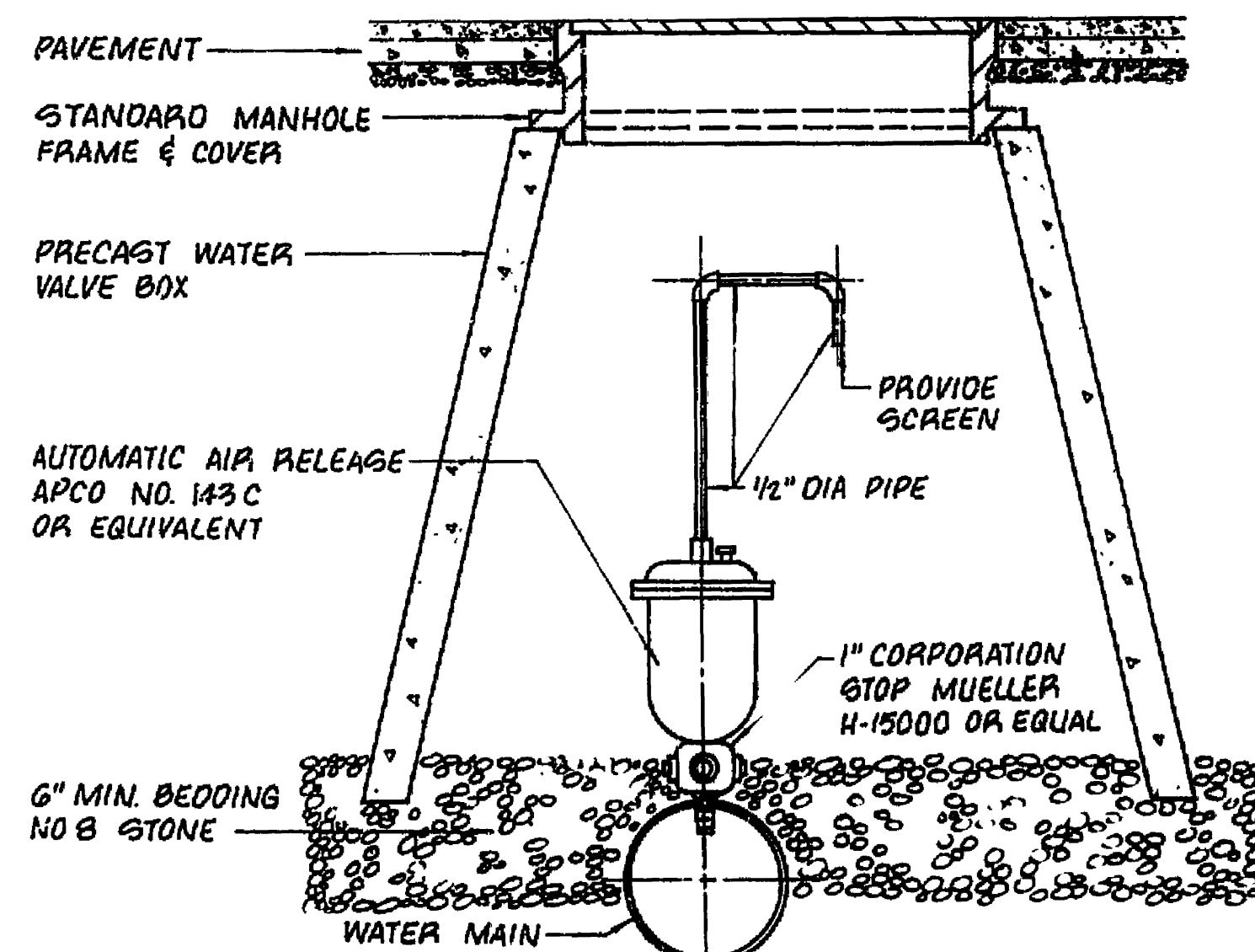
FIRE HYDRANT SETTING
NOT TO SCALE



MAIN LINE VALVE INSTALLATION
NOT TO SCALE

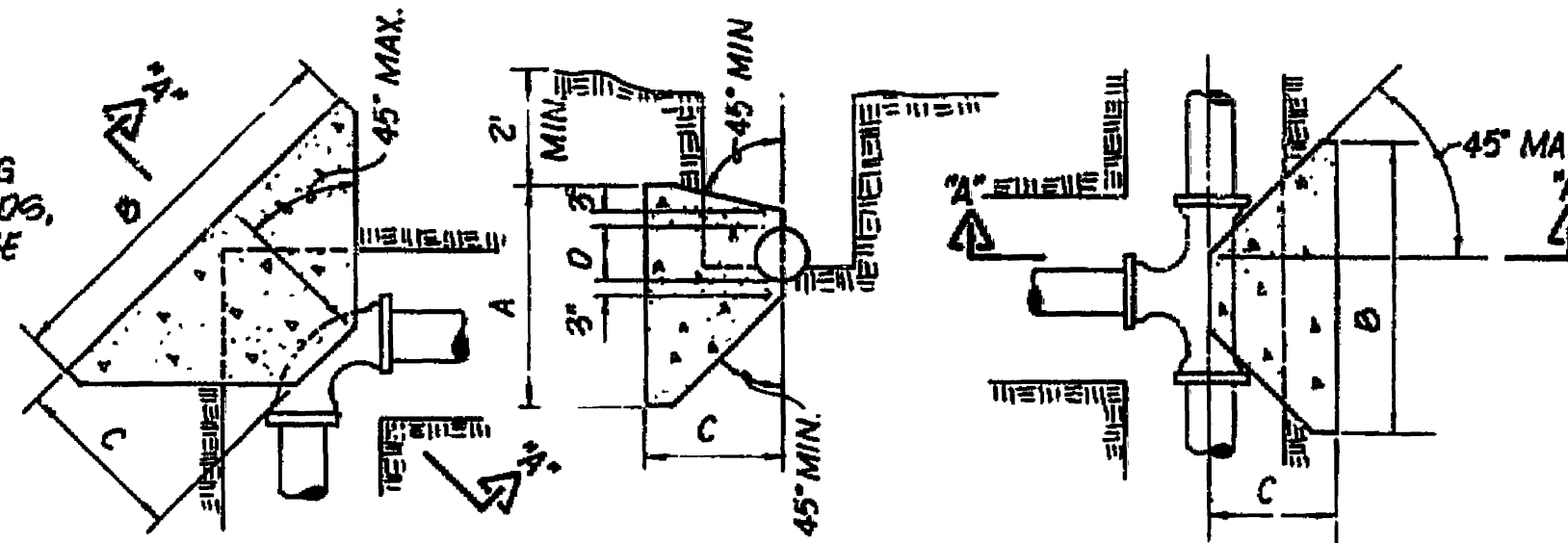


BLOW OFF ASSEMBLY
NOT TO SCALE



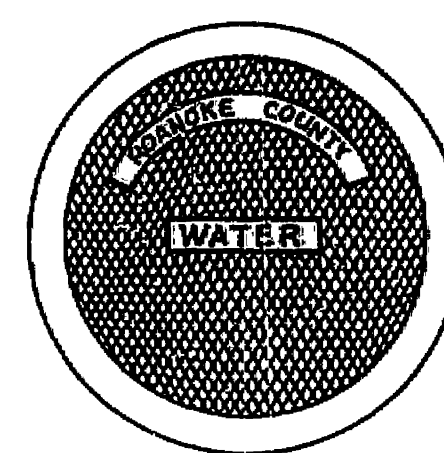
AUTOMATIC AIR RELEASE ASSEMBLY
NOT TO SCALE

NOTE: CONCRETE SHALL NOT BE POURED ON JOINTS, LIMITING FLEXIBILITY. ALL TEES, BENDS, PLUGS AND CAPS, SHALL BE ANCHORED WITH THRUST BLOCKS.



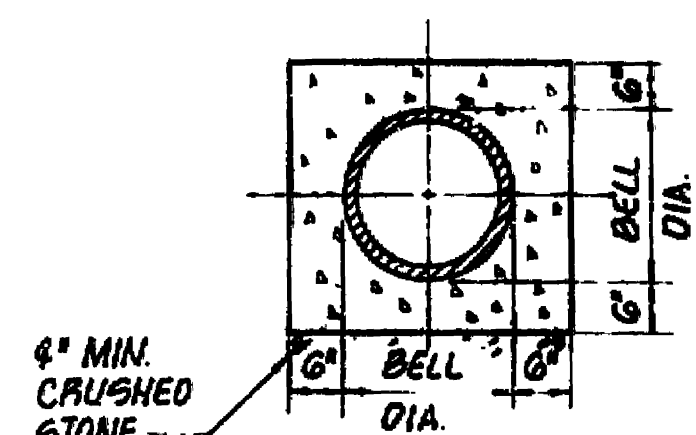
PIPE SIZE	TEE OR DEAD END			90° BEND			45° BEND			22 1/2° BEND		
	A	B	C	A	B	C	A	B	C	A	B	C
6"	20	30	15	30	40	15	20	30	15	20	30	15
8"	25	40	20	40	50	20	25	40	20	25	40	20
10"	30	45	25	45	60	25	30	45	25	30	45	25
12"	35	50	30	50	70	30	35	50	30	35	50	30
14"	40	55	35	55	80	35	40	55	35	40	55	35

THRUST BLOCK
NOT TO SCALE



NOTE: STANDARD FRAME & COVER, RICHARD FOUNDRY CO. DESIGN NO. B-1444, DEWEY BROTHERS, INC. MH-RCR-56 OR EQUAL.

STANDARD WATER COVER
NOT TO SCALE

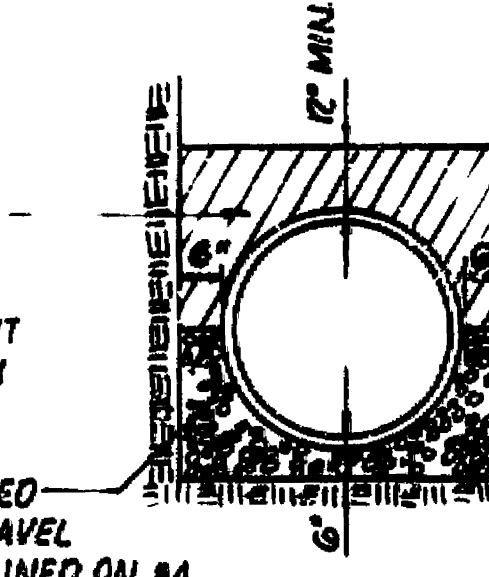


CONCRETE ENCASMENT
NOT TO SCALE

CAREFULLY AND MECHANICALLY TAMPED BACKFILL -

NOTE: ASBESTOS CEMENT PIPE TO BE LAID IN GRAVEL BEDDING

COMPACTED CRUSHED STONE OR PEA GRAVEL PASSING 1/2\"/>



GRAVEL BEDDING
NOT TO SCALE

88-02-W

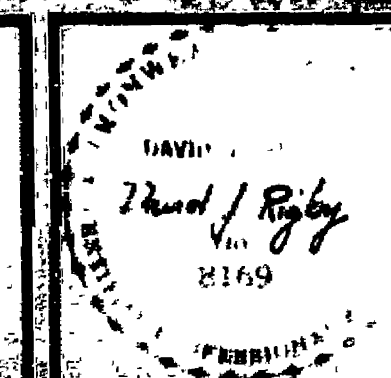


CLEAN WATER ENGINEERS, INC.

P.O. BOX 218
FINCASTLE, VIRGINIA 24090

P.O. BOX 3225
STAUNTON, VIRGINIA, 24401

**ROANOKE COUNTY WATERLINE EXTENSION
VIRGINIA ROUTE 311 / HANGING ROCK VICINITY
ROANOKE COUNTY, VIRGINIA**



REVISIONS			DESIGNED:	SHEET:
NO.	DATE	BY	WSP	7 OF 8
			DRAWN:	SCALE:
			TAM	AS SHOWN
			CHECKED:	DATE:
			CCB	JAN 1988
			APPROVED:	PROJECT:
			DJR	87079

