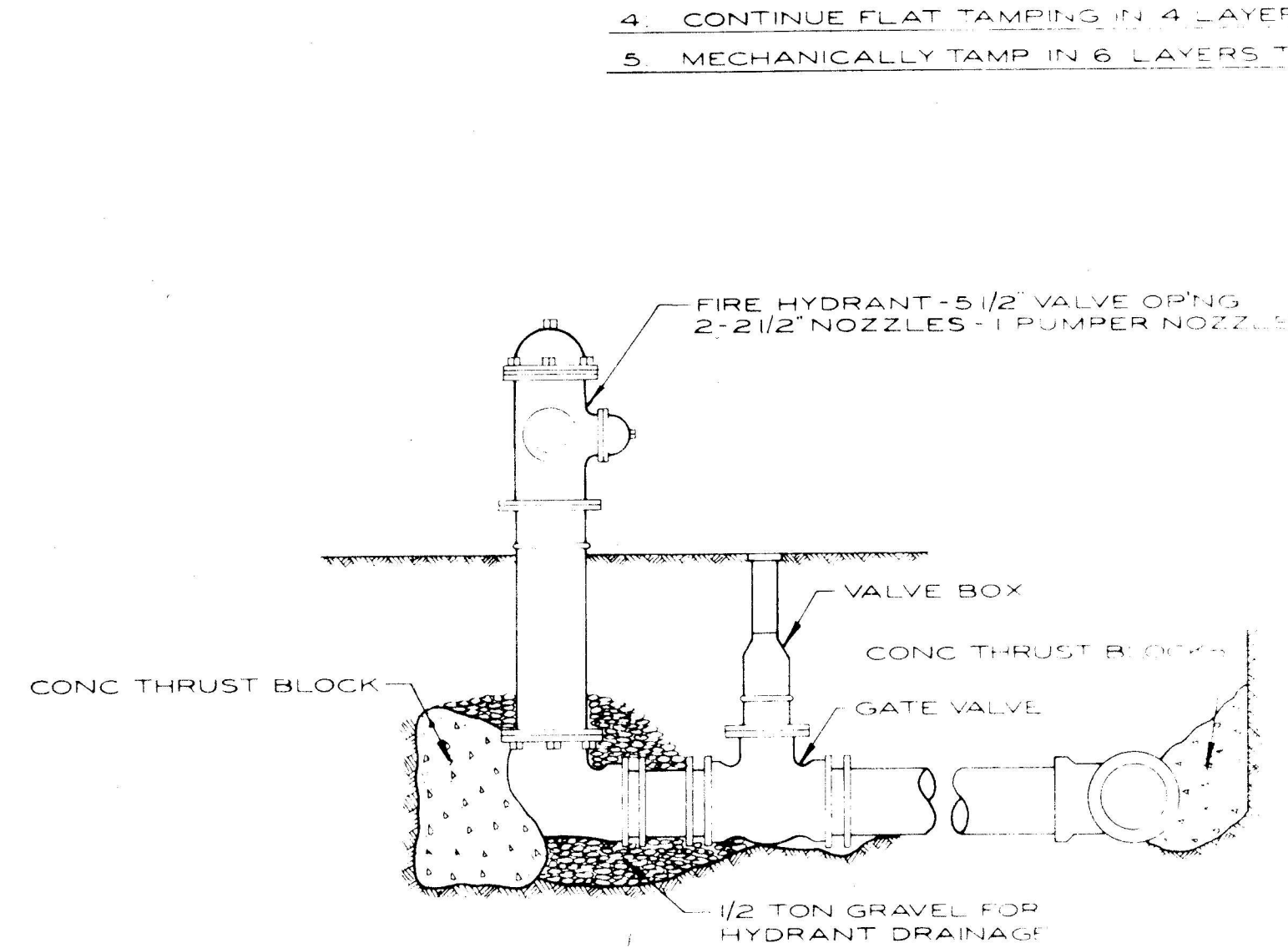
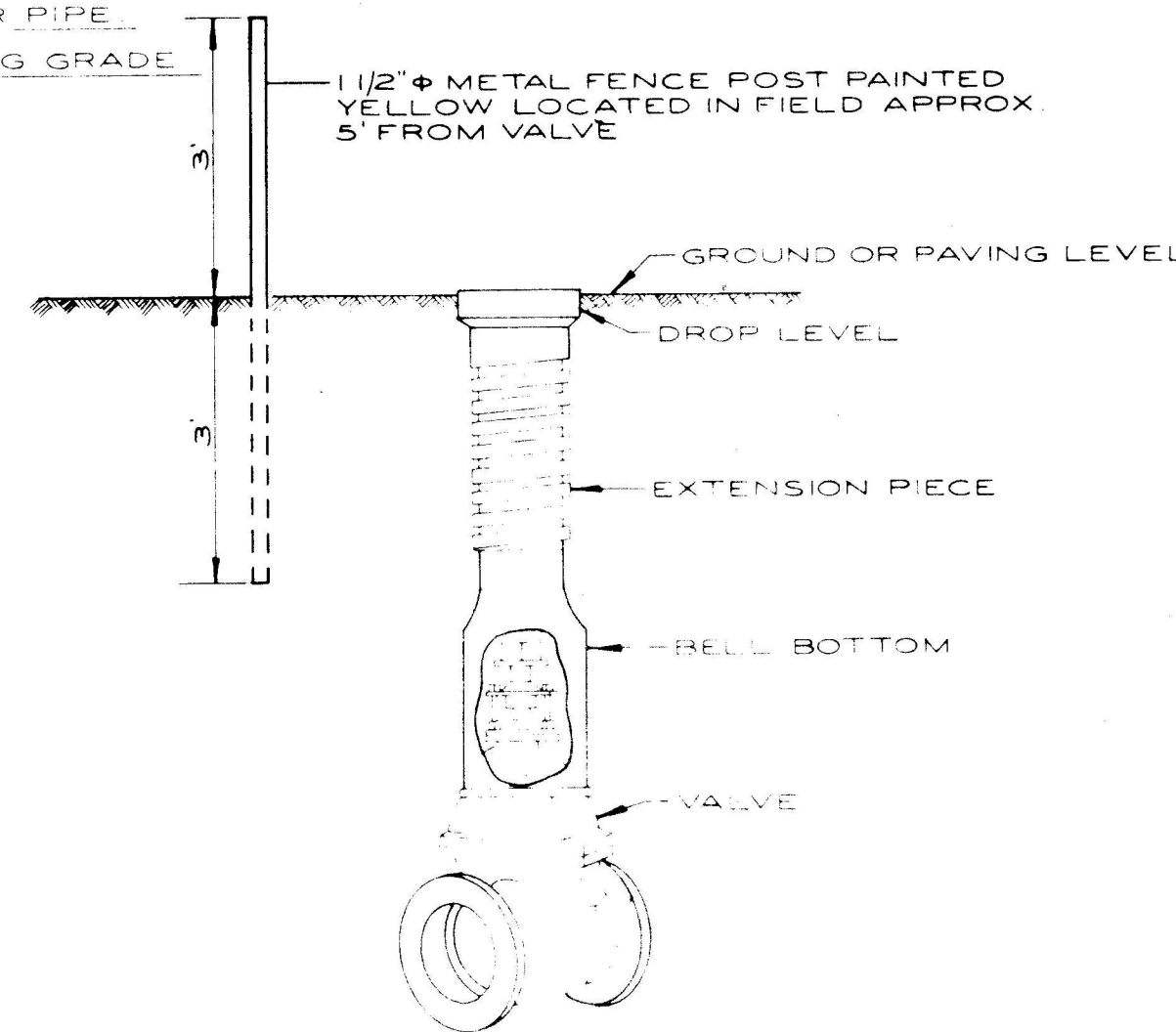


1. PLACE SOIL IN LAYER
2. FORCE SOIL UNDER PIPE WITH TAMP BAR
3. USE FLAT TAMPER AT SIDES WHEN PIPE IS FIRMLY BEDDED
4. CONTINUE FLAT TAMPING IN 4 LAYERS, 12\"/>

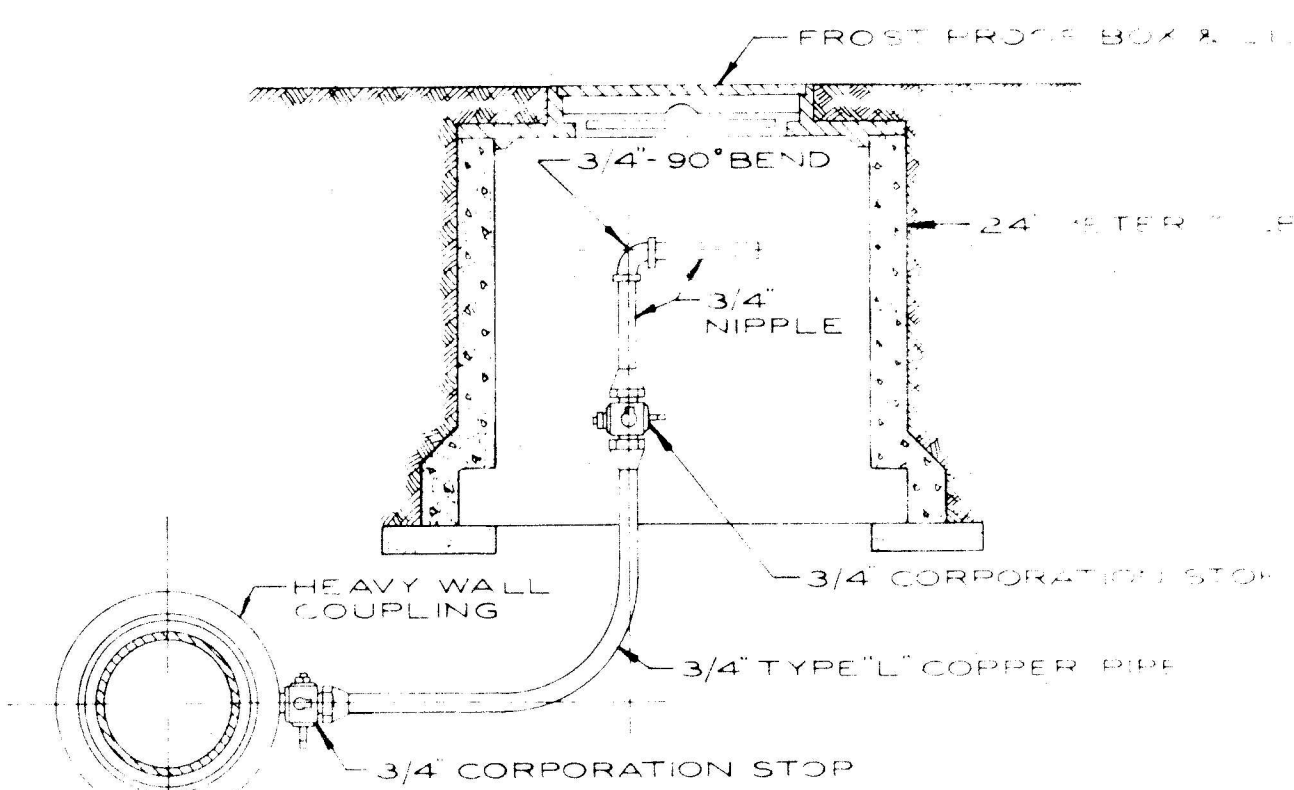
TYPICAL BEDDING
ROCK EXCAVATION
NO SCALE



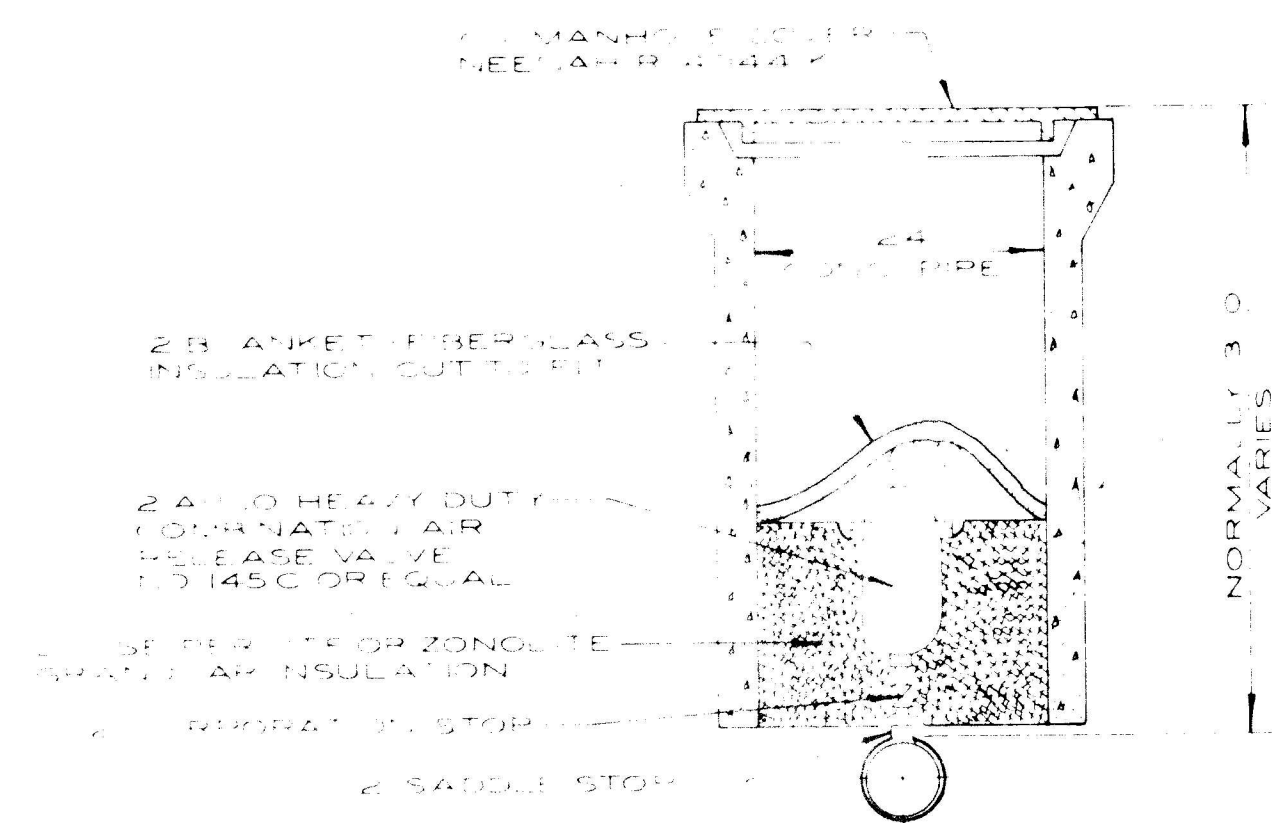
TYPICAL FIRE HYDRANT INSTALLATION
NO SCALE



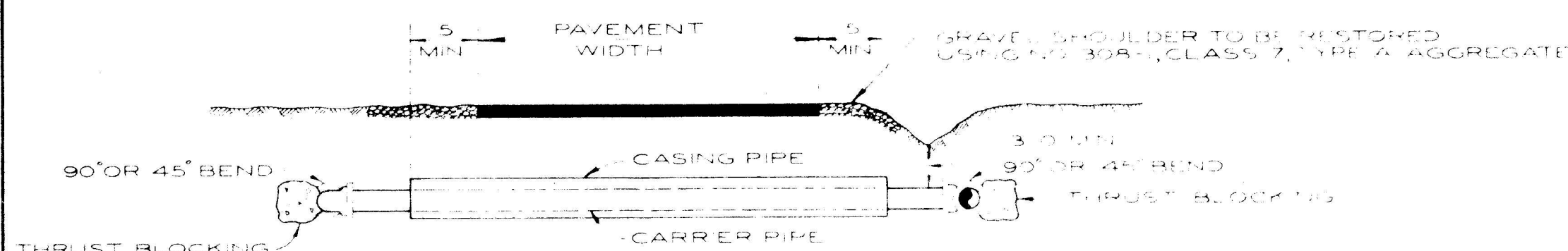
TYPICAL VALVE & VALVE BOX
NO SCALE



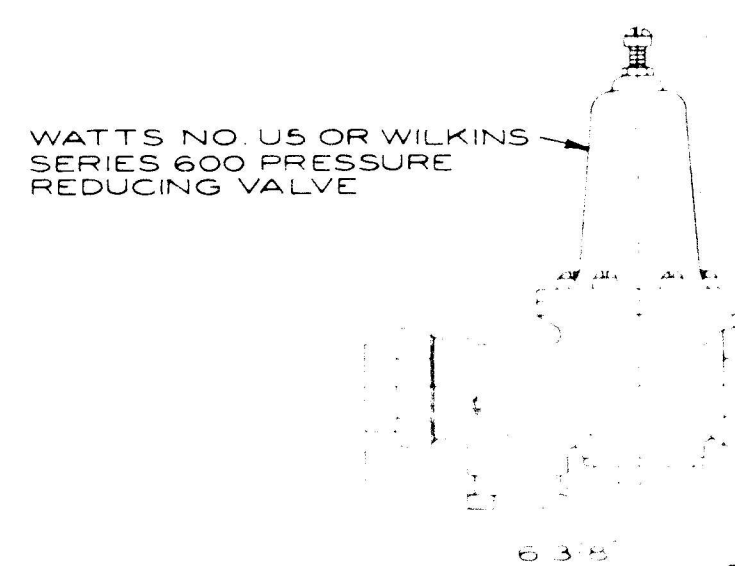
BLOW-OFF ASSEMBLY
NO SCALE



DETAIL - AIR RELEASE VALVE
NO SCALE

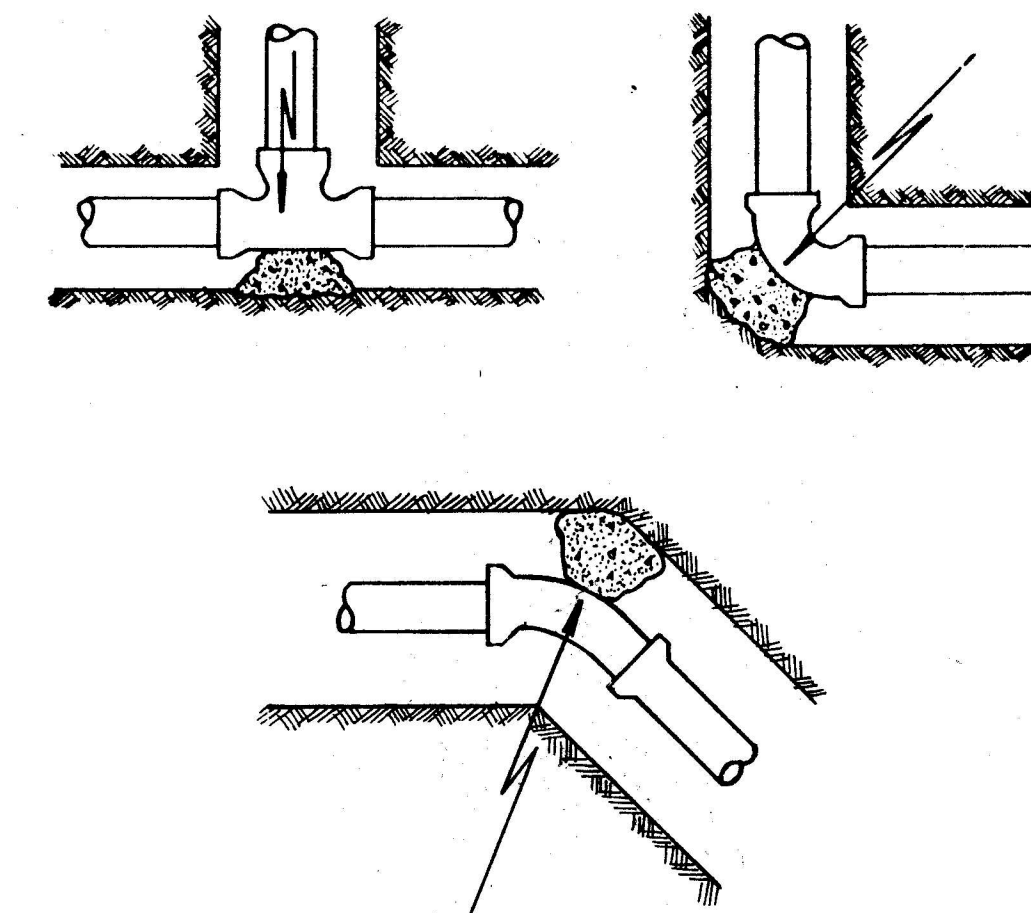


DETAIL
ROAD CROSSING
NO SCALE

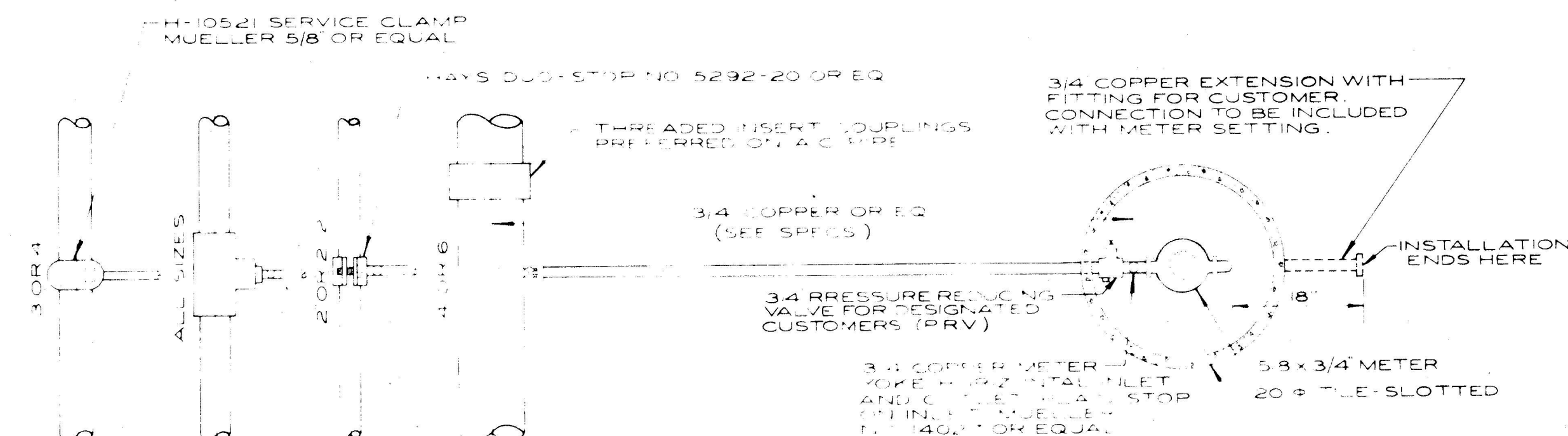


RESIDENTIAL
PRESSURE REDUCING VALVE
NO SCALE

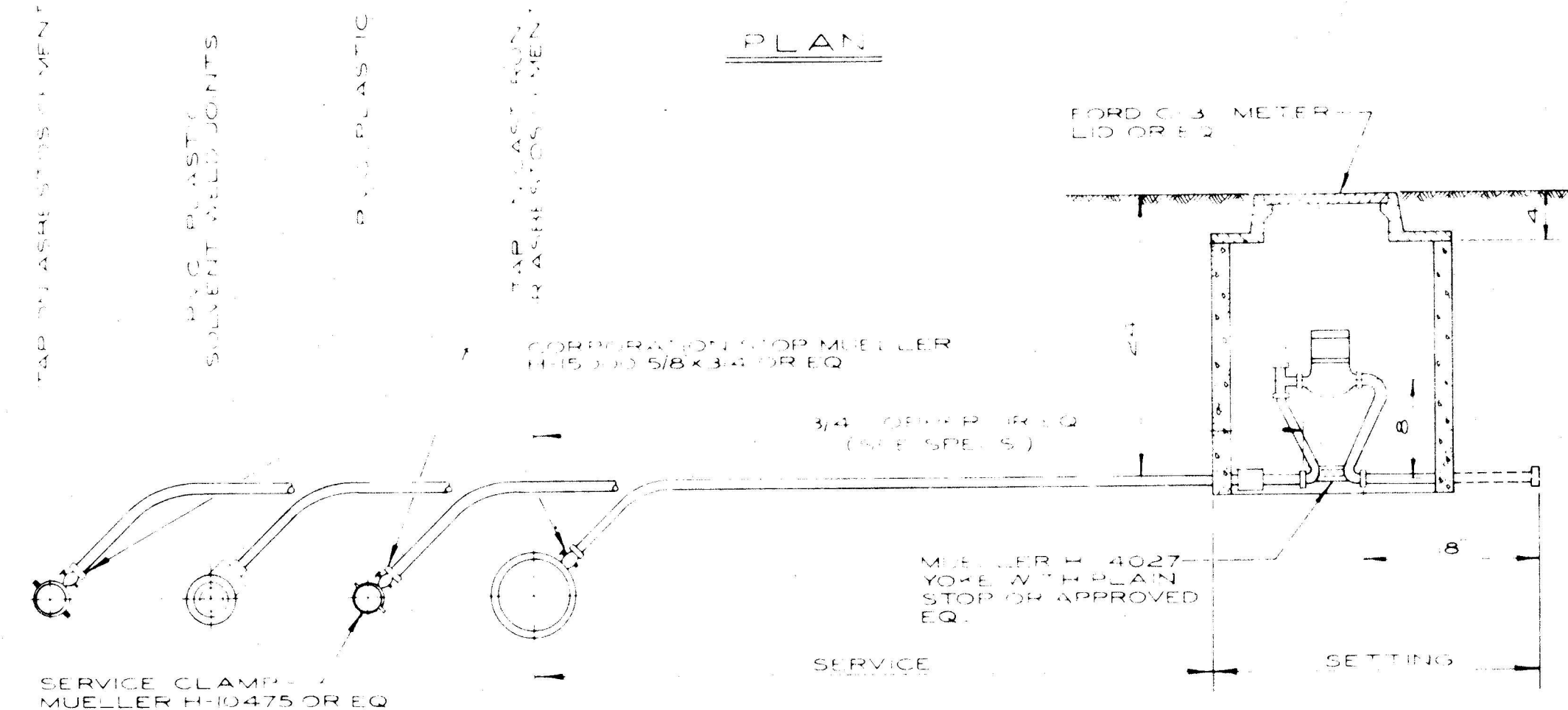
MINIMUM CONTACT AREA IN SQ. FT. FOR THRUST BLOCKING BASED ON 2000 LB. SQUARE FOOT BEARING							
PIPE SIZE	TEE	90° BEND	60° BEND	45° BEND	30° BEND	22 1/2° BEND	11 1/4° BEND
100 PSIG INTERNAL PRESSURE							
4"	1	1	1	1	1	1	1
6"	2	2	2	1	1	1	1
8"	3	3	3	2	1	1	1
12"	6	8	6	4	3	2	1
14"	8	11	8	6	4	3	2
16"	10	14	10	8	5	4	3
18"	13	18	13	10	7	5	3
20"	16	22	16	12	8	6	3
24"	23	32	23	17	12	8	5
150 PSIG INTERNAL PRESSURE							
4"	1	1	1	1	1	1	1
6"	2	2	2	2	1	1	1
8"	4	5	4	3	2	1	1
12"	8	12	8	6	4	3	2
14"	12	16	12	9	6	5	2
16"	15	21	15	12	8	6	3
18"	19	27	19	15	10	8	4
20"	24	33	24	18	12	9	5
24"	34	48	34	26	18	13	7
200 PSIG INTERNAL PRESSURE							
4"	1	2	1	1	1	1	1
6"	3	4	3	2	2	2	1
8"	5	7	4	4	3	2	1
12"	11	16	11	9	6	4	2
14"	16	22	16	12	8	6	3
16"	20	29	20	15	11	8	4
18"	26	36	26	20	13	10	5
20"	31	42	31	24	16	12	6
24"	45	64	45	35	21	18	8



TYPICAL
THRUST BLOCKING DETAILS
NO SCALE



NOTE
USE OF TRADE NAME IS INDICATIVE
OF MATERIAL DESIRED. APPROVED
MATERIAL OF EQUAL QUALITY IS
ACCEPTABLE.



ELEVATION

TYPICAL METER SETTING DETAILS

BILL OF MATERIALS

SERVICE 3/4" COPPER
1-5/8 x 3/4" CORPORATION STOP - MUELLER
NO. H-15000. NOTE SERVICE CLAMPS
AS REQUIRED.

METER SETTING 5/8 x 3/4"
1-18 x 21" METER TILE - SLOTTED.
1-11" LID FOR METER BOX - FORD C-32 OR EQ.
1-5/8 x 3/4" METER.
1- METER YOKE WITH PLAIN STOP.

1		KELLEY, GIDLEY, BLAIR & WOLFE, INC. CONSULTING ENGINEERS CHARLESTON, WEST VIRGINIA			
2		CITY OF ST. ALBANS			
3		KANAWHA COUNTY		WEST VIRGINIA	
4		MISCELLANEOUS DETAILS			
5		DRAWN	JRS	CHECKED	DAW
6		DRAWN		APPROVED	HRC
7		DRAWN		SCALE	AS NOTED
8	DATE	PROJECT 72600		DATE FEB. 81	
9		DRAWING NO. 72617			