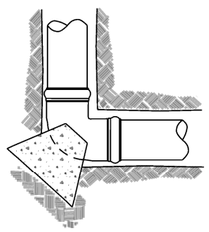
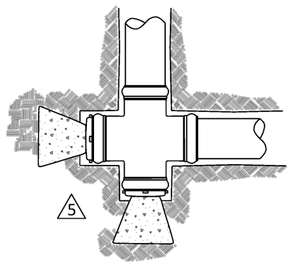
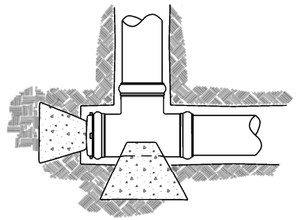


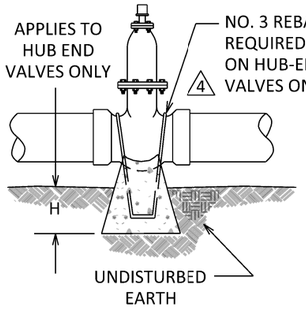
90° BEND



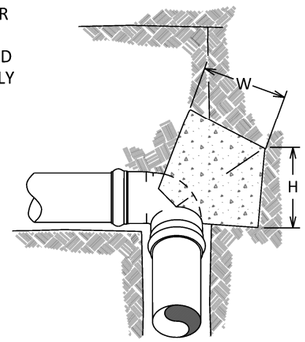
PLAN VIEW



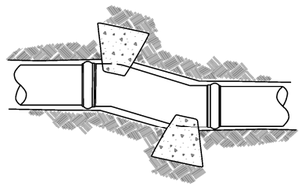
DEAD END



DETAIL "A"



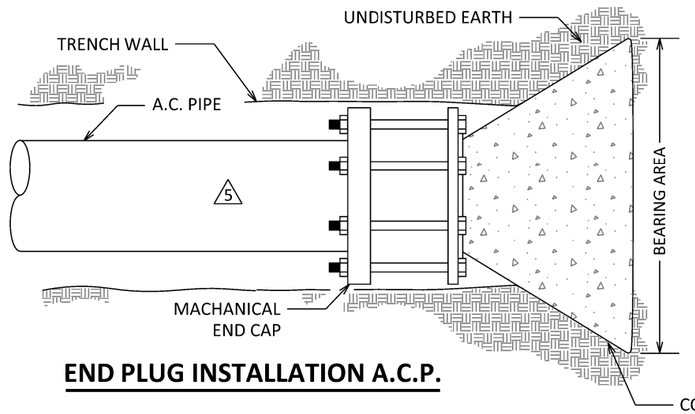
PERSPECTIVE VIEW



PLAN VIEW

THRUST BLOCK TABLES 5

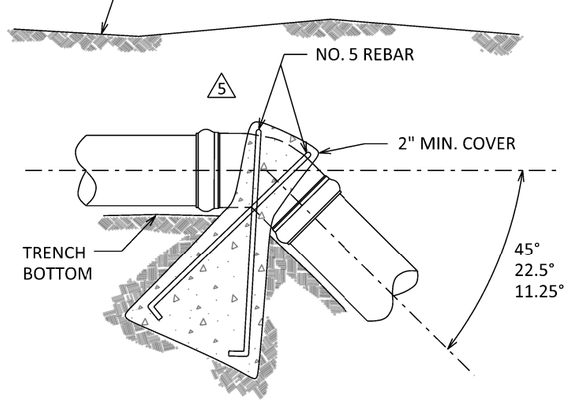
PIPE SIZE	TYPE OF FITTING	SAFE SOIL BEARING LB/SF.	BEARING AREA CLASS 150 HGT-WIDTH	BEARING AREA CLASS 200 HGT-WIDTH	SAFE SOIL BEARING LB/SF.	BEARING AREA CLASS 150 HGT-WIDTH	BEARING AREA CLASS 200 HGT-WIDTH	SAFE SOIL BEARING LB/SF.	BEARING AREA CLASS 150 HGT-WIDTH	BEARING AREA CLASS 200 HGT-WIDTH	SAFE SOIL BEARING LB/SF.	BEARING AREA CLASS 150 HGT-WIDTH	BEARING AREA CLASS 200 HGT-WIDTH
16	TEE	1500	5'X7'	6'X7'	2000	4'X7'	5'X6'	3000	4'X5'	4'X5'	5000	3'X5'	3'X4'
16	90° BEND	1500	5'X10'	6'X10'	2000	5'X8'	5'X9'	3000	4'X6'	5'X6'	5000	3'X5'	3'X6'
16	45° BEND	1500	4'X7'	4'X8'	2000	4'X5'	4'X6'	3000	3'X5'	4'X4'	5000	2'X4'	2'X5'
16	22.5° BEND	1500	3'X5'	4'X4'	2000	3'X4'	3'X4'	3000	2'X4'	3'X3'	5000	2'X2'	2'X3'
14	TEE	1500	4'X7'	4'X8'	2000	4'X5'	4'X6'	3000	3'X3'	4'X4'	5000	3'X3'	2'X5'
14	90° BEND	1500	5'X10'	5'X9'	2000	5'X8'	5'X7'	3000	5'X5'	5'X6'	5000	3'X5'	3'X5'
14	45° BEND	1500	4'X5'	4'X6'	2000	4'X4'	3'X6'	3000	3'X4'	3'X4'	5000	2'X3'	2'X4'
14	22.5° BEND	1500	3'X4'	3'X4'	2000	2'X4'	3'X3'	3000	2'X3'	2'X6'	5000	1'X3'	2'X2'
12	TEE	1500	4'X5'	4'X6'	2000	3'X5'	3'X6'	3000	3'X4'	3'X4'	5000	2'X3'	2'X4'
12	90° BEND	1500	4'X7'	4'X8'	2000	4'X6'	4'X6'	3000	3'X5'	4'X4'	5000	3'X3'	2'X5'
12	45° BEND	1500	4'X4'	3'X6'	2000	3'X4'	3'X5'	3000	2'X4'	3'X3'	5000	2'X3'	2'X3'
12	22.5° BEND	1500	2'X4'	3'X3'	2000	2'X3'	2'X4'	3000	2'X2'	2'X3'	5000	1'X3'	1'X3'
8	TEE	1500	3'X3'	2'X5'	2000	2'X3'	2'X4'	3000	2'X3'	2'X3'	5000	1'X3'	1'X3'
8	90° BEND	1500	3'X4'	3'X5'	2000	3'X3'	3'X4'	3000	2'X3'	2'X4'	5000	2'X2'	2'X3'
8	45° BEND	1500	2'X4'	2'X4'	2000	2'X3'	2'X6'	3000	2'X2'	2'X2'	5000	1'X2'	1'X3'
8	22.5° BEND	1500	2'X2'	2'X2'	2000	1'X3'	1'X3'	3000	1'X2'	1'X2'	5000	1'X1'	1'X1'
6	TEE	1500	2'X3'	2'X3'	2000	2'X2'	2'X2'	3000	1'X3'	1'X3'	5000	1'X2'	1'X2'
6	90° BEND	1500	2'X4'	2'X4'	2000	2'X3'	2'X3'	3000	2'X2'	2'X2'	5000	1'X2'	1'X3'
6	45° BEND	1500	2'X2'	2'X2'	2000	1'X3'	2'X2'	3000	1'X2'	1'X3'	5000	1'X1'	1'X2'
6	22.5° BEND	1500	1'X2'	1'X2'	2000	1'X2'	1'X2'	3000	1'X1'	1'X1'	5000	1'X1'	1'X1'
4	TEE	1500	1'X3'	1'X3'	2000	1'X2'	1'X2'	3000	1'X2'	1'X2'	5000	1'X1'	1'X1'
4	90° BEND	1500	2'X2'	2'X2'	2000	1'X3'	1'X3'	3000	1'X2'	1'X2'	5000	1'X1'	1'X1'
4	45° BEND	1500	1'X3'	1'X2'	2000	1'X2'	1'X2'	3000	1'X1'	1'X1'	5000	0	1'X1'
4	22.5° BEND	1500	1'X1'	1'X1'	2000	1'X1'	1'X1'	3000	0	1'X1'	5000	0	0



END PLUG INSTALLATION A.C.P.

NOTES: 5

1. CONCRETE THRUST BLOCKS ARE TO BE POURED AGAINST UNDISTURBED EARTH.
2. CONCRETE THRUST BLOCKS SHALL BE OF CLASS "C" (2000 P.S.I.) CONCRETE.
3. ALL GATE VALVES SHALL BE SUPPORTED PER DETAIL "A" BELOW & STD DWGS B-255 & B-279.
4. ALL CONCRETE SHALL BE POURED TO AVOID INTERFERENCE WITH BOLTED CONNECTIONS.
5. WHERE PIPE CONNECTS TO A FITTING IN A STEEL PIPELINE THE STEEL PIPELINE SHALL BE BLOCKED AS SHOWN HEREON.
6. 5 AC PIPELINE SHALL HAVE CONCRETE SUPPORTS POURED ON EACH SIDE OF THE VALVE.



ANCHOR BLOCK (VERTICAL BEND ONLY)

ANCHOR BLOCK TABLES 5

CUBIC FT. OF CONCRETE

PIPE SIZE	CLASS 150 TEST PRESS. 225 PSI 45°	22.5°	11.25°	CLASS 200 TEST PRESS. 300 PSI 45°	22.5°	11.25°
4"	15	8	4	20	10	5
6"	33	17	9	44	22	11
8"	58	30	15	77	40	20
12"	——	——	34	——	——	45

NOTE: 5

1. —— INDICATES ANCHOR BLOCK MUST BE DESIGNED FOR EACH INDIVIDUAL CASE.

REVISIONS					
NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE
5	5/5/22	GS	UPDATED TITLE BLOCK, FONT, LOGO, A.C. END PLUG, ANCHOR, REMOVE B-414 NOTE AND ADDED NOTE 6	AGA	5/5/22
4	2/16/73	McM	REVISED TITLE TO SAY "HUB-END PIPE"	LAM	
3	7/23/71	SBJ	ADDED CLASS 200	LAM	
2	10/21/69	McM	REVISED TABLES	LAM	

REFERENCES: SUPERCEDES A-530 & B-414

FILE I.D.:

SCALE: NONE

DRAWN BY: GS

APPROVALS	INITIAL	DATE
DESIGN		
CONSTRUCTION		
INSPECTION		
OPERATIONS		
SUBMITTED	LAM	

emwd EASTERN MUNICIPAL WATER DISTRICT

RECOMMENDED D. C. Stewart
DIRECTOR OF ENGINEERING DATE

EASTERN MUNICIPAL WATER DISTRICT
STANDARD DRAWING

THRUST BLOCK INSTALLATION FOR HUB END PIPE

APPROVED Doyle T. Boen
ASSISTANT GENERAL MANAGER DATE

B-407

5