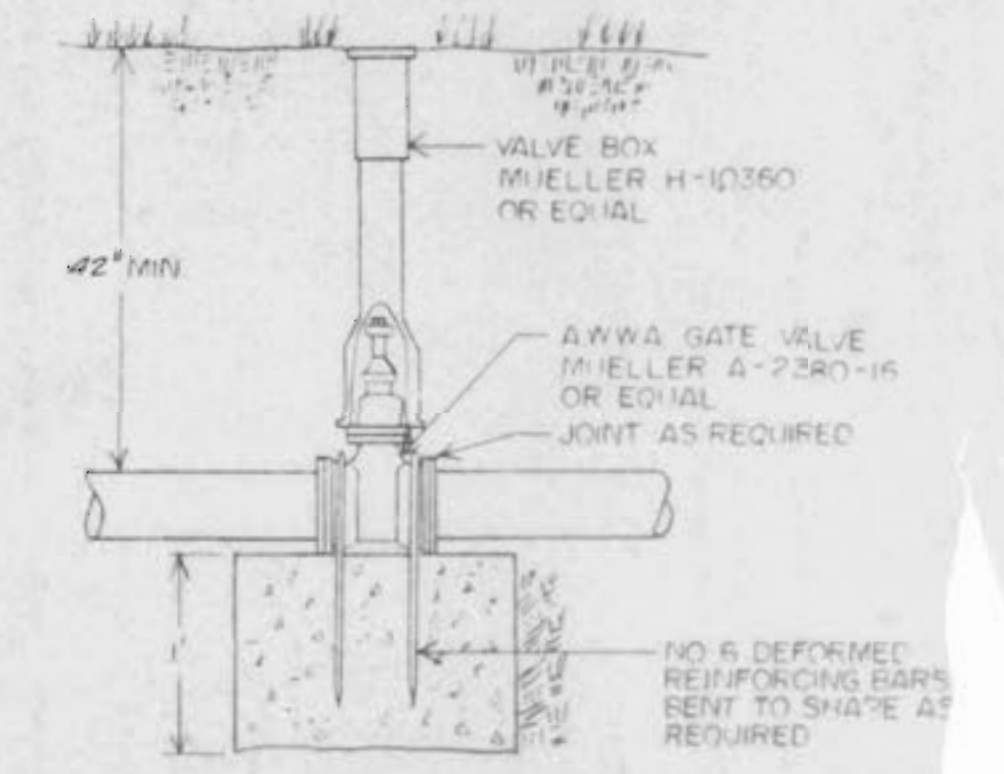
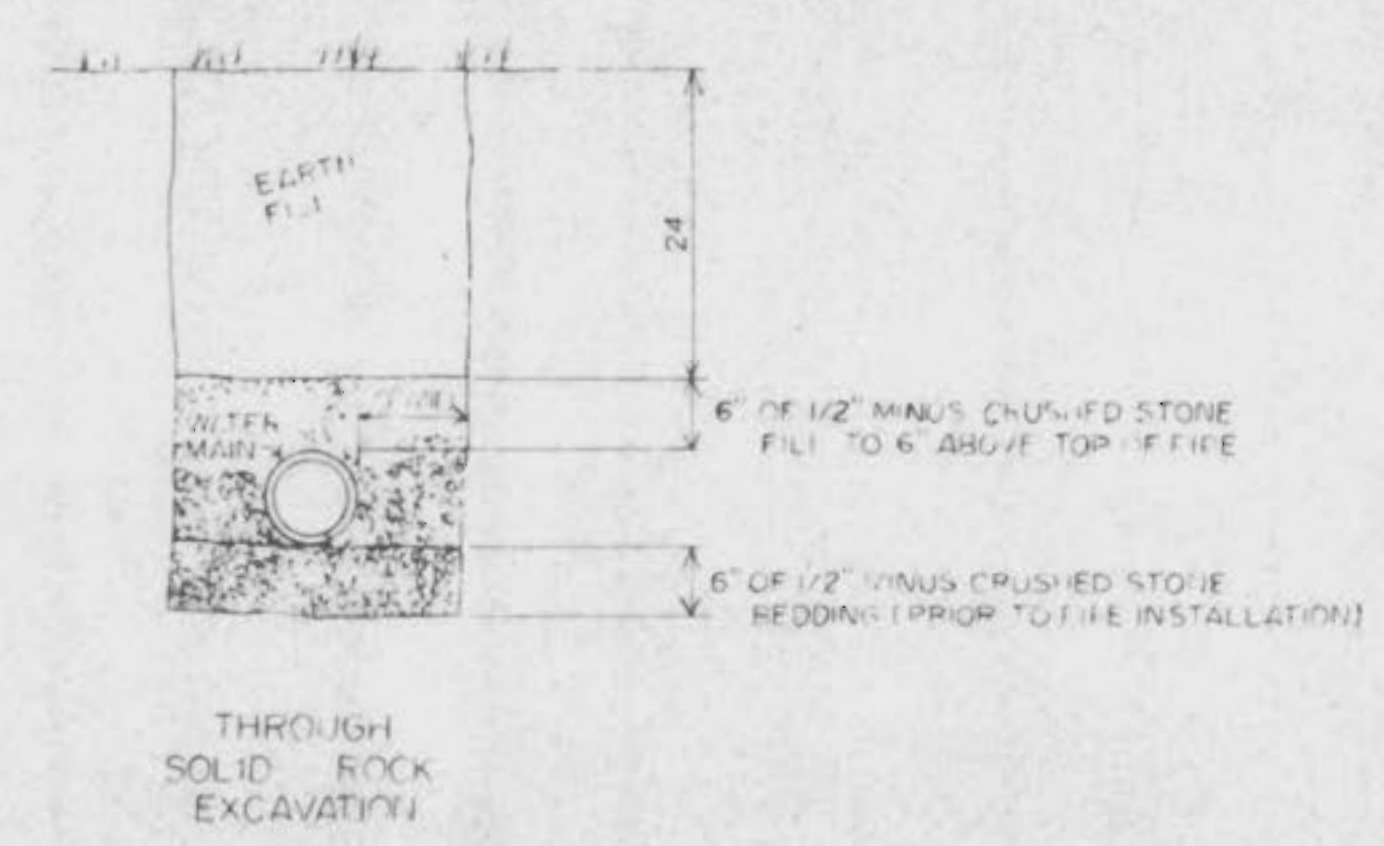
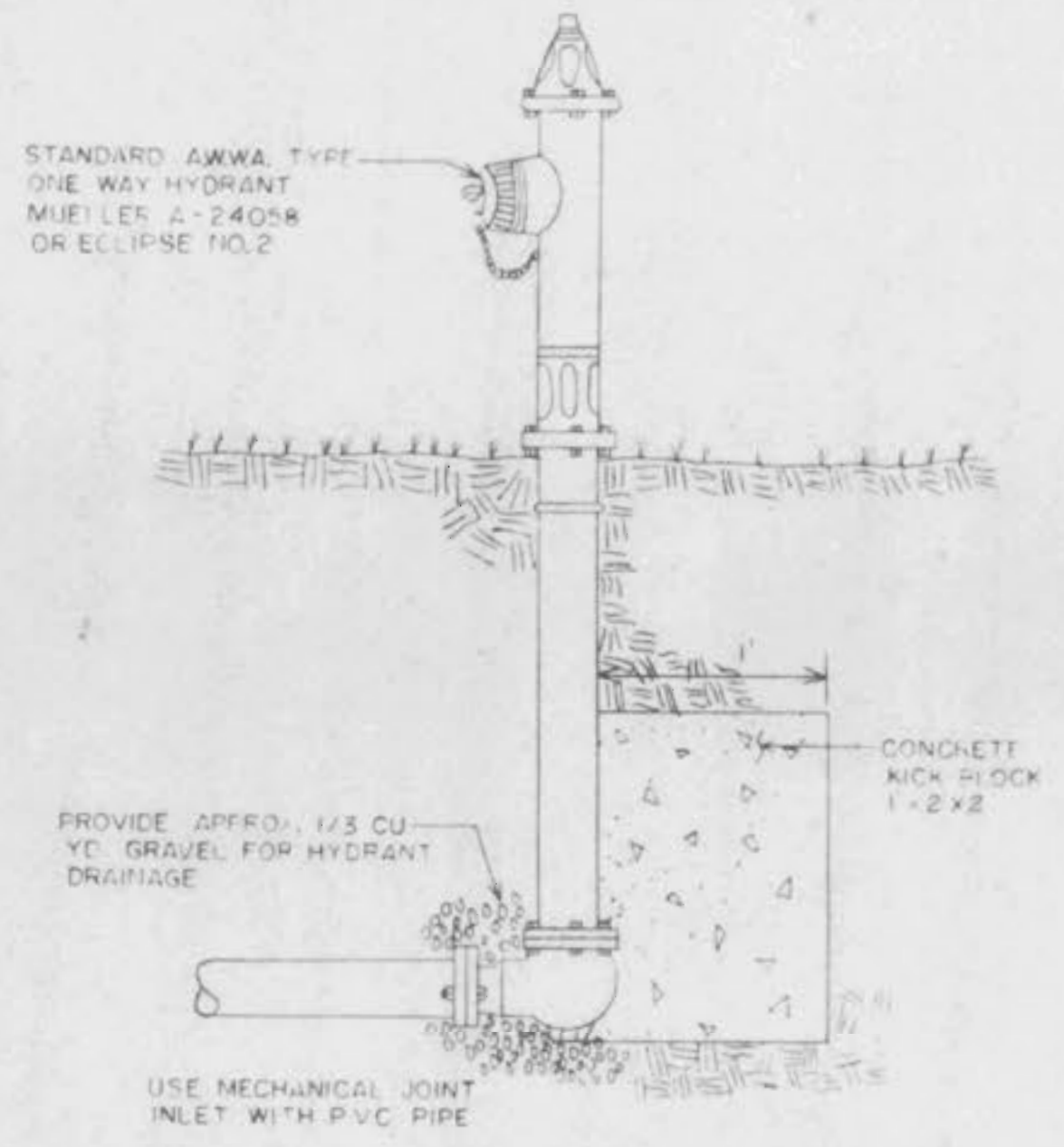


SECTION 4-A

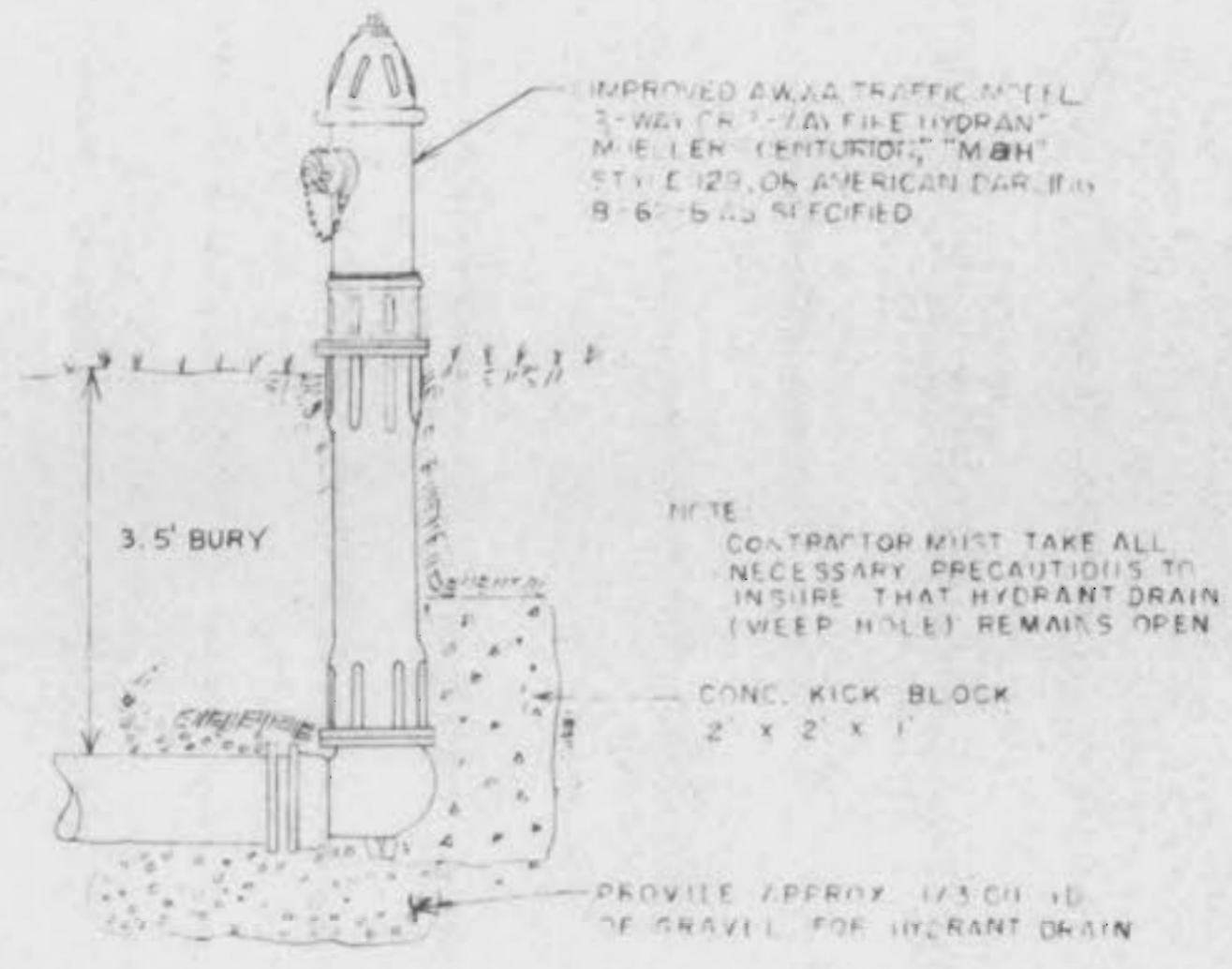


GATE VALVE W / THRUST BLOCK
NO SCALE

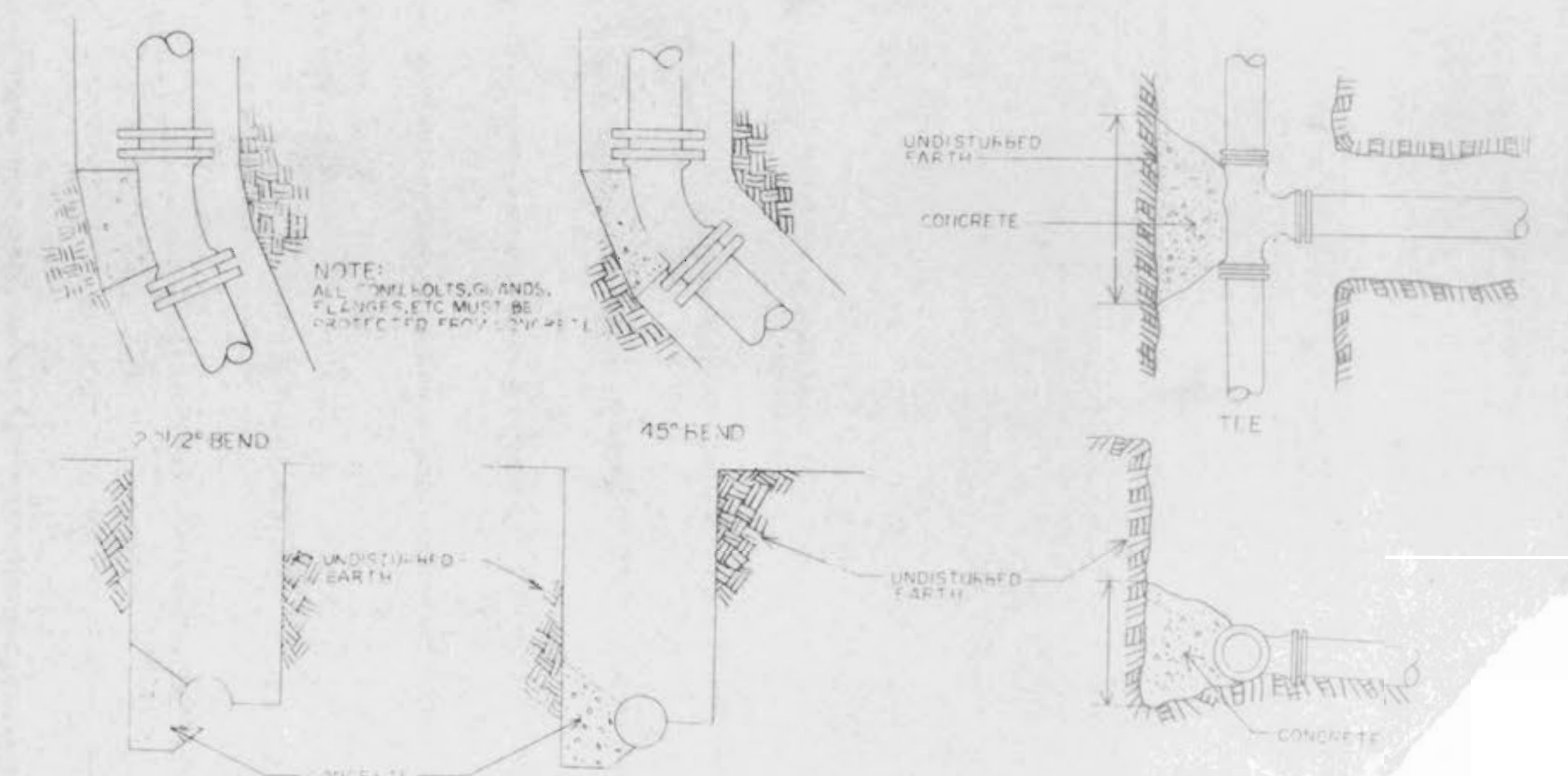
TYPICAL WATER MAIN INSTALLATION DETAILS
NO SCALE



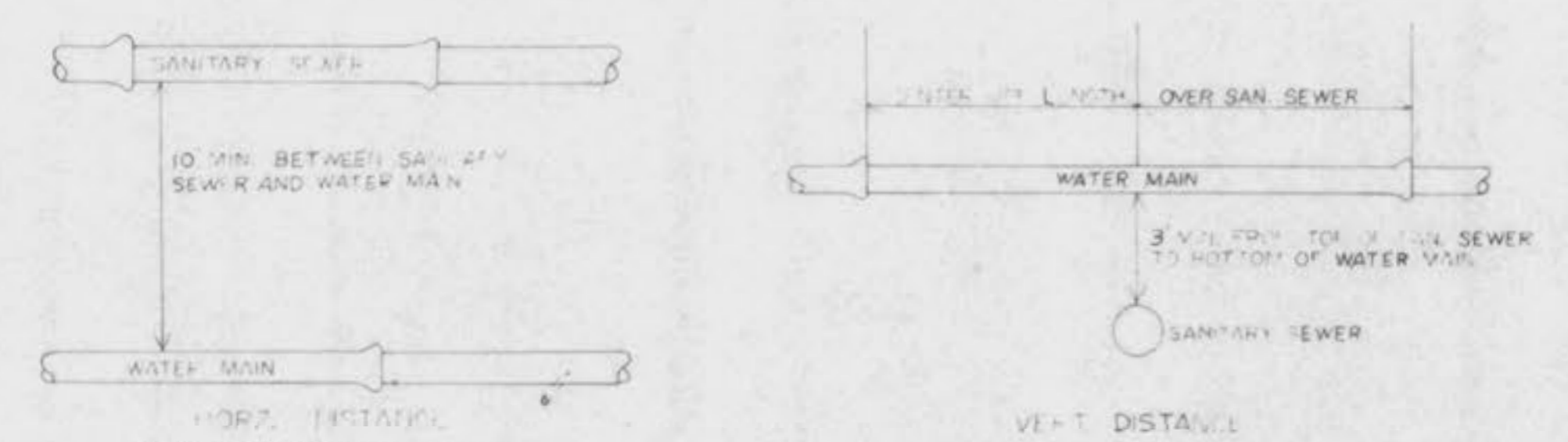
FLUSHING HYDRANT
NO SCALE



FIRE HYDRANT INSTALLATION DETAIL
NO SCALE



TYPICAL THRUST BLOCK DETAIL
NO SCALE



TYPICAL WATER & SEWER SEPARATION
NO SCALE

PIPE SIZE (D. IN INCHES)	THRUST BLOCK BEARING DIMENSIONS TO BEAR AGAINST UNDISTURBED EARTH				
	45° BEND	22 1/2° BEND	TEE	VALVE	CROSS
2"	.5 x 1'	.5 x 1'	.5 x 1'	.5 x 1'	.5 x 1'
4"	1' x 1'	1' x 1'	2' x 1'	2' x 1'	1' x 1'
6"	1.5 x 1'	1' x 1'	2' x 1'	2' x 1'	1' x 1.5'
8"	2' x 1'	1' x 1'	2' x 2.5'	2' x 2'	1' x 1.5'
10"	2' x 2.5'	1.5 x 2'	2' x 3.5'	2' x 3'	2' x 2'
12"	2' x 3.5'	1.5 x 2.5'	3' x 3.5'	3' x 3'	2' x 2'
16"	3' x 4'	2' x 3'	4' x 4.5'	3' x 4.5'	3' x 3.5'

APPROVED:

TYPICAL WATER MAIN INSTALLATION

DATE: _____ SCALE: _____

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