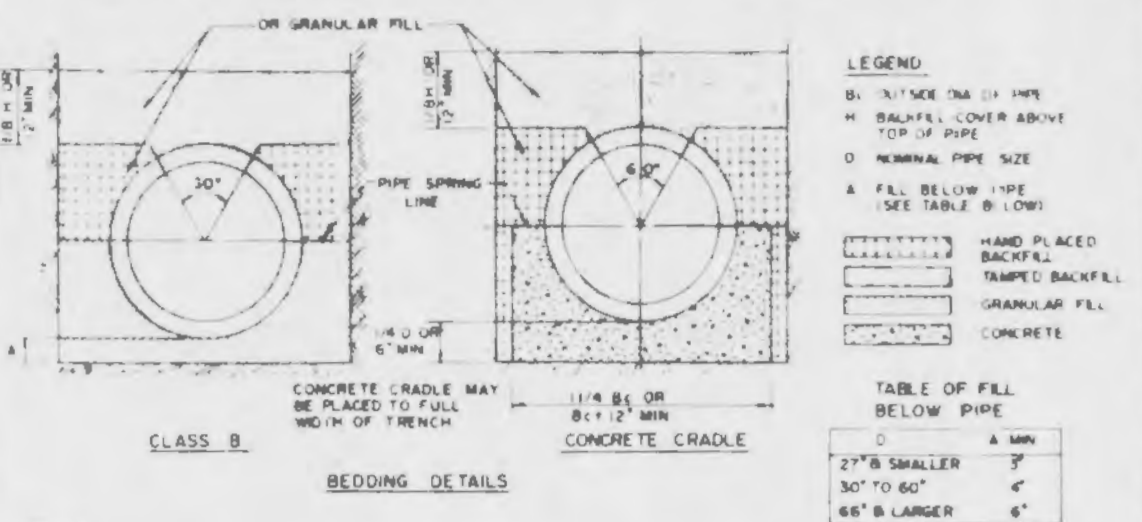
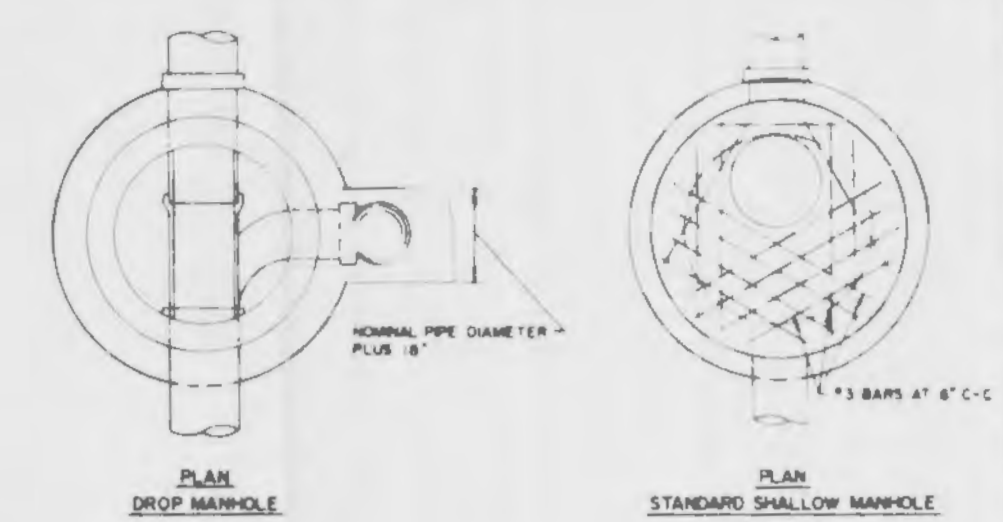


WALL THICKNESS	MANHOLE BASE THICKNESS
48"	0-20
60"	20-30
72"	30-40



ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
Inside Diameter of Pipe (Inches)	Outside Diameter of Pipe (Inches)	Pay Volume (cu ft per ft)	Pay Volume (cu ft per ft)	Inside Dimensions of Pipe (Inches)	Outside Dimensions of Pipe (Inches)	Pay Volume (cu ft per ft)	Pay Volume (cu ft per ft)
4	28	2.33	3.20				
6	28	2.33	3.46				
8	28	2.33	3.70				
10	28	2.33	3.86				
12	28	2.33	3.96				
15	32	2.67	4.89				
18	35	2.92	5.63	14 x 23	41	5.42	5.94
21	39	3.25	6.61				
24	42	3.50	7.39	19 x 30	49	6.08	7.68
27	45	3.75	8.18	22 x 34	51	6.42	8.61
30	48	4.08	9.30	24 x 38	57	6.83	9.73
33	53	4.42	10.53	27 x 42	62	7.17	10.71
36	56	4.67	11.43	29 x 45	66	7.50	11.72
39	DISCONTINUED			32 x 49	71	7.92	13.14
42	63	5.25	13.36	34 x 53	75	8.25	14.05
48	70	5.83	15.67	38 x 60	83	8.92	16.18
54	77	6.42	18.15	43 x 68	92	9.67	18.81
60	84	7.00	20.73	48 x 76	101	10.42	21.59
66	91	7.58	23.45	53 x 83	109	11.08	24.36
72	98	8.17	26.37	58 x 91	119	11.83	27.43
78	105	8.75	29.38	63 x 98	126	12.50	30.50
84	112	9.33	32.57	68 x 106	135	13.25	33.91
90	119	9.92	35.90	72 x 113	143	13.92	36.89
96	126	10.50	39.37	77 x 121	152	14.67	40.69
102	133	11.08	42.89	82 x 128	160	15.33	44.45
108	140	11.67	46.75	87 x 136	168	16.00	47.79
114	147	12.25	50.66	92 x 143	176	16.67	51.70
120	154	12.83	54.72	97 x 151	185	17.42	56.01
132	168	14.00	63.27	106 x 166	202	18.83	64.48
144	182	15.17	72.40	116 x 180	218	19.17	73.93

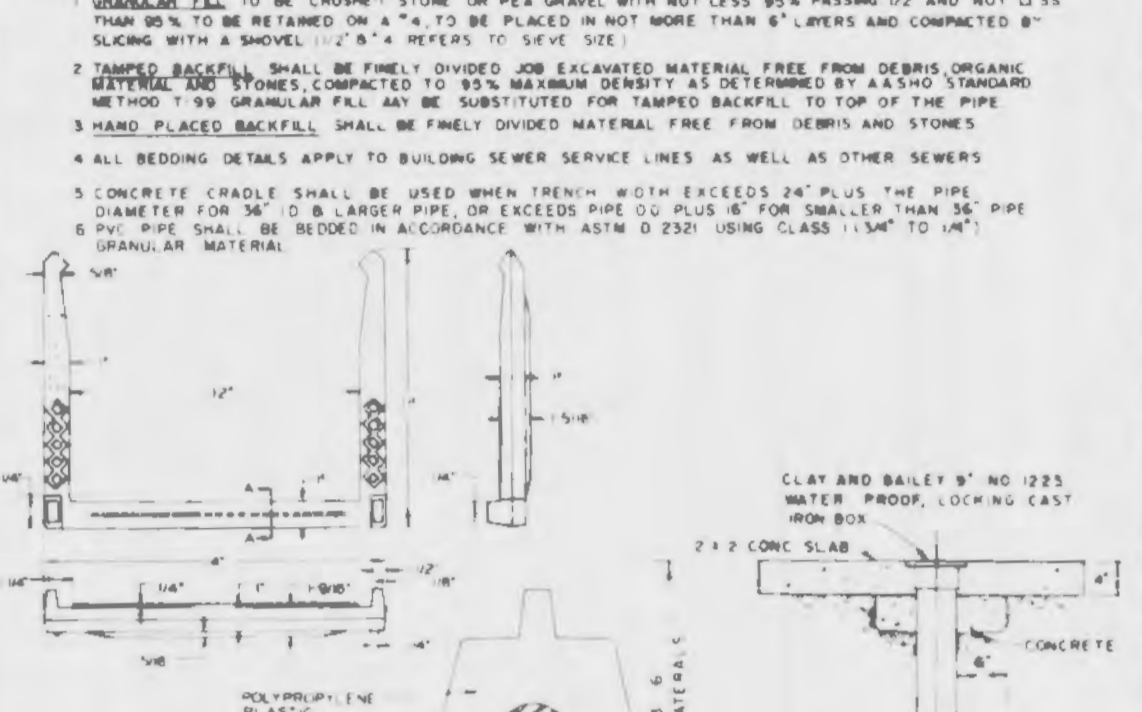
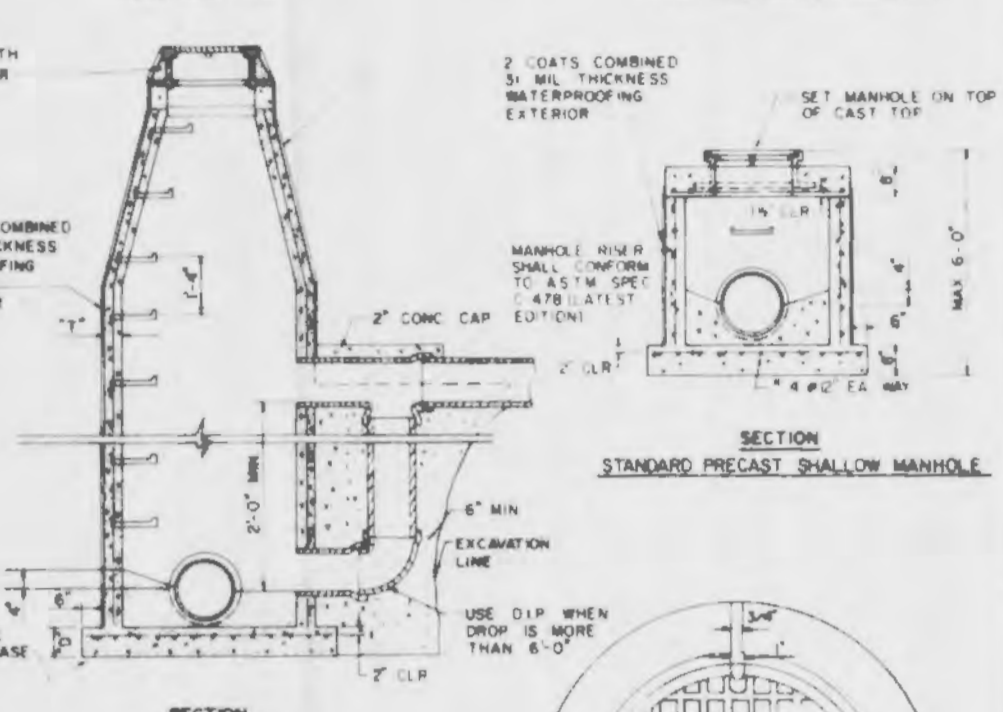
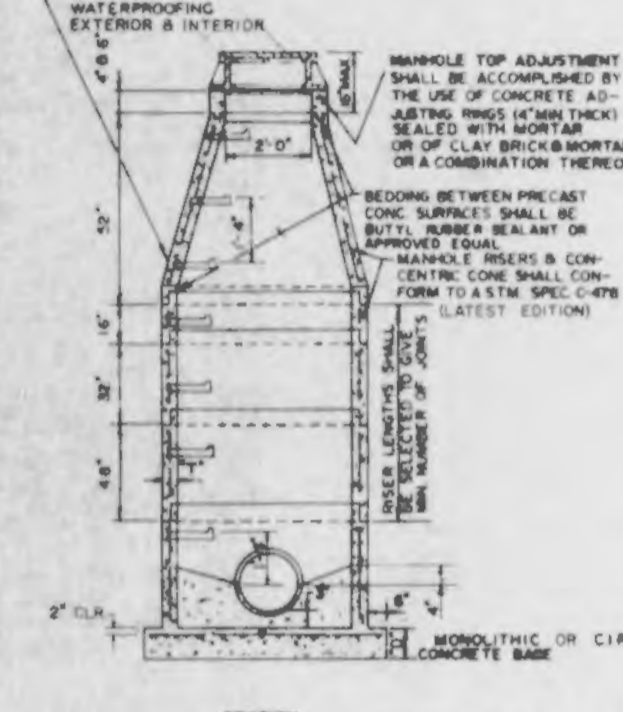
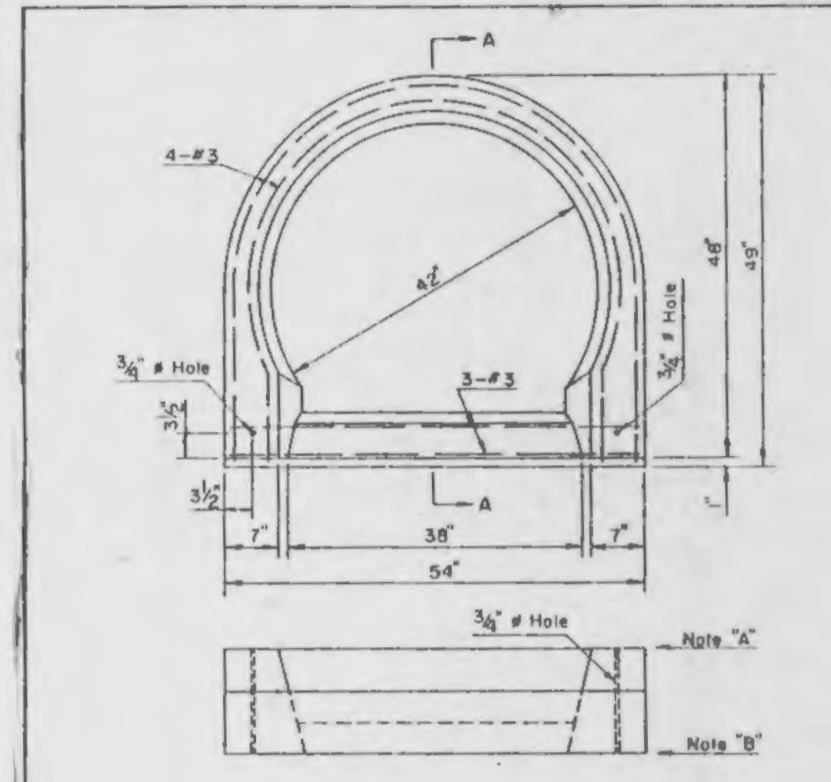


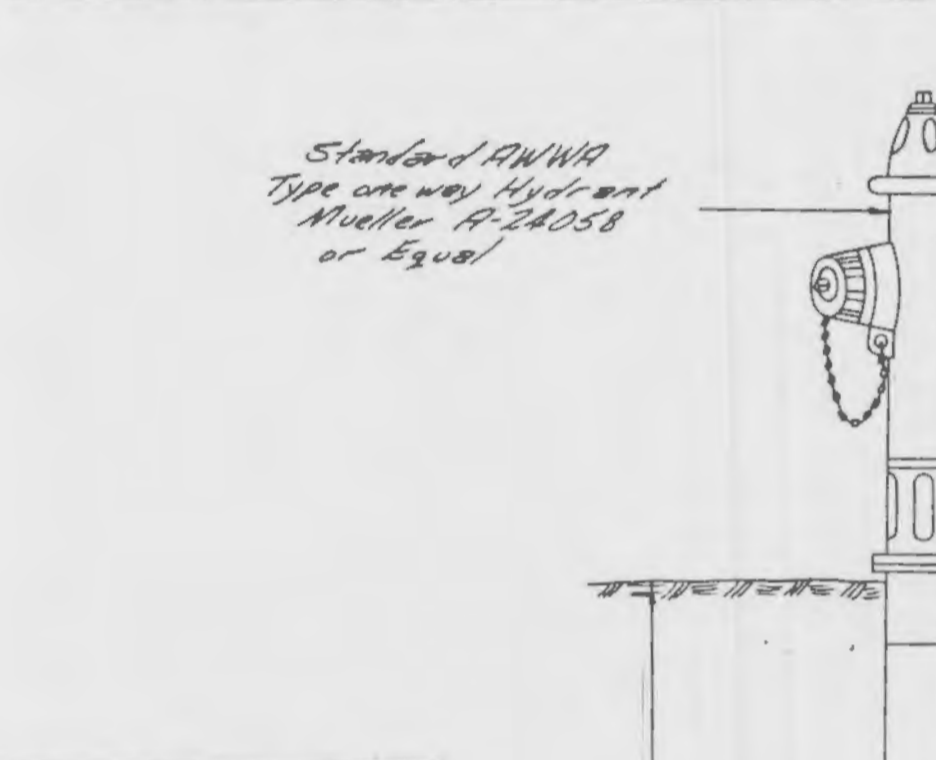
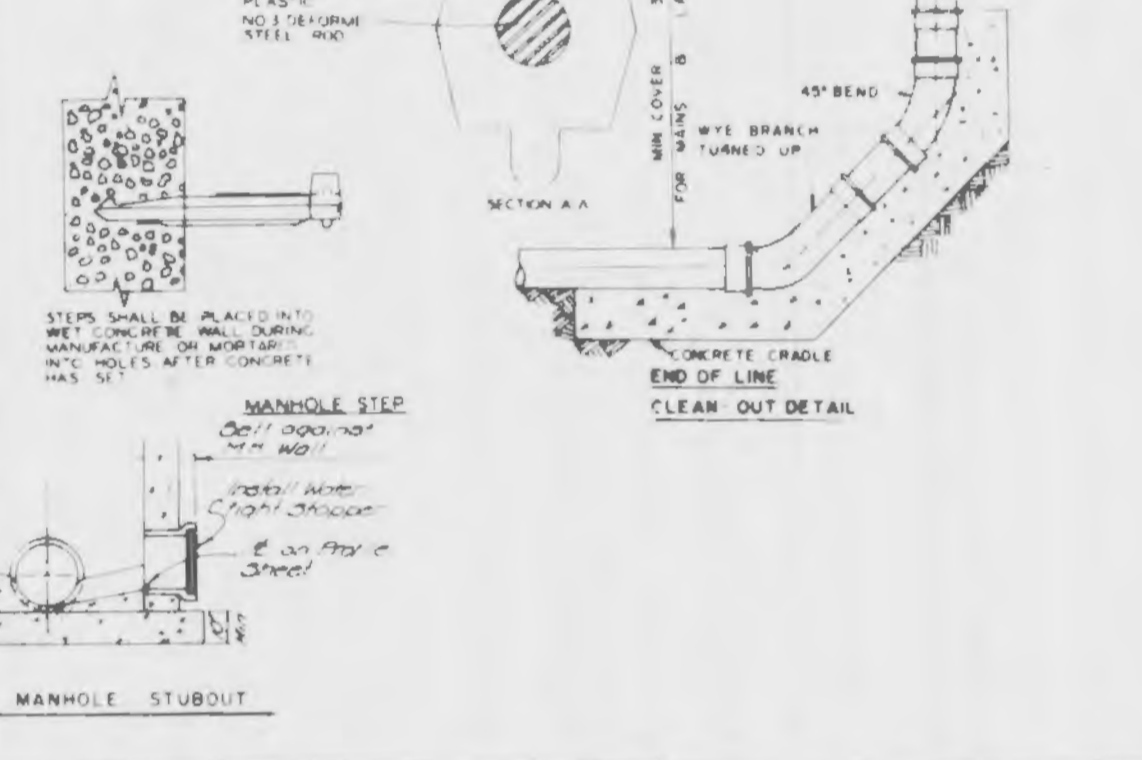
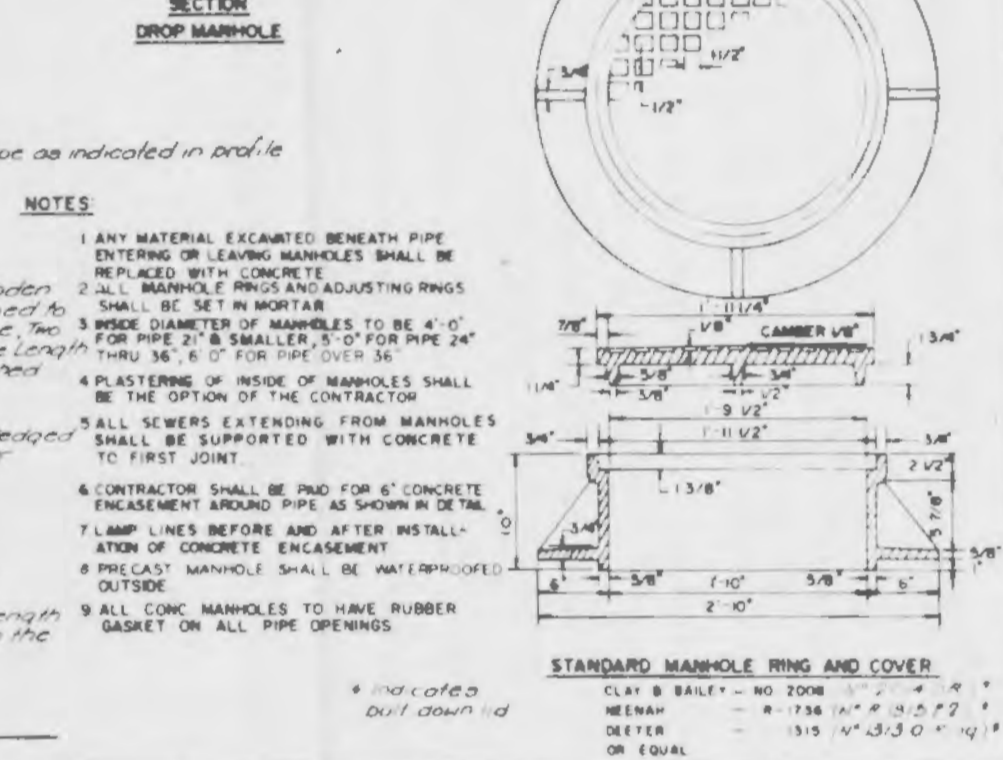
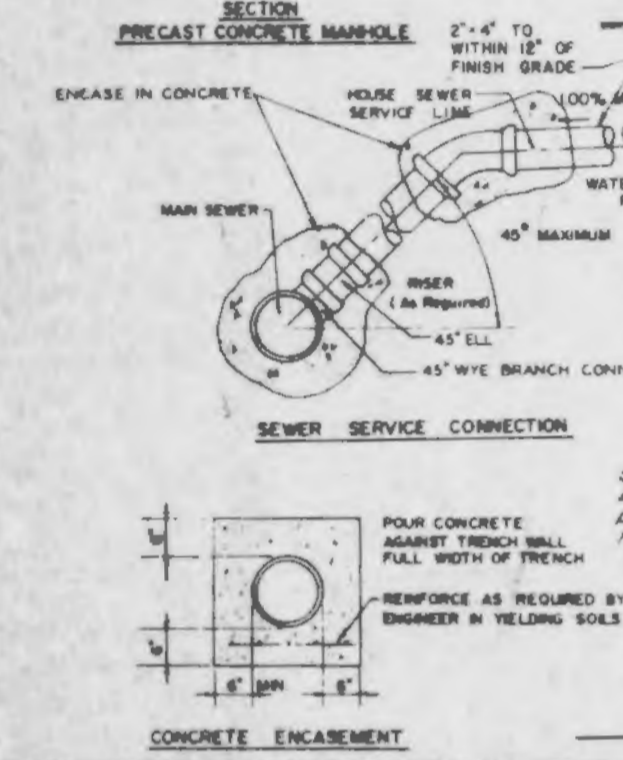
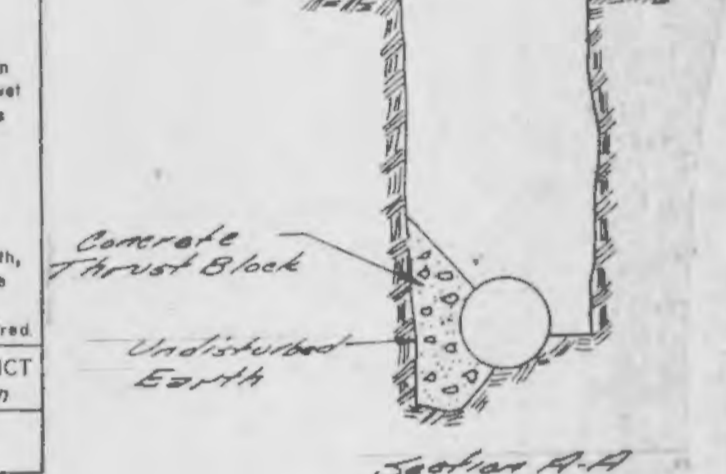
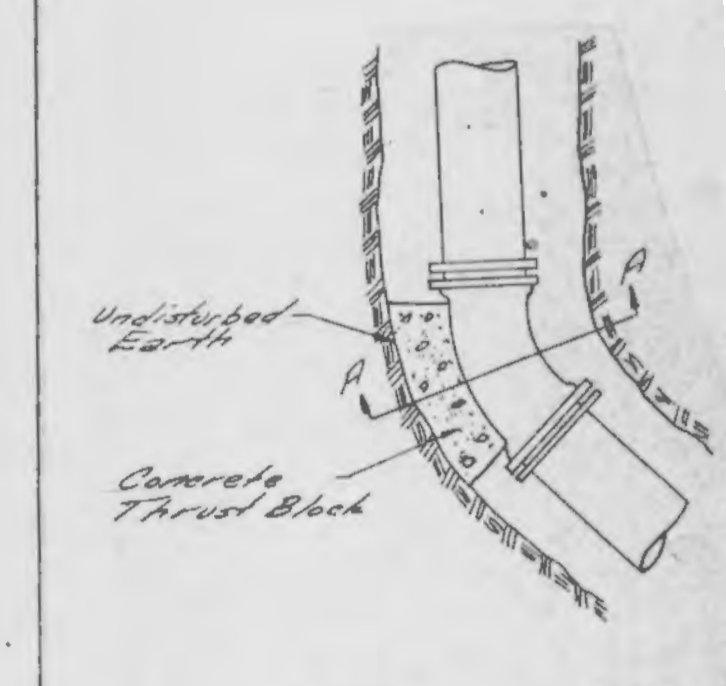
TABLE NO. 1
 PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE

TRENCH AND PAY-QUANTITIES OF CONCRETE	Dr. R. N. Ch. J. K.	April 1979	Sheet 1
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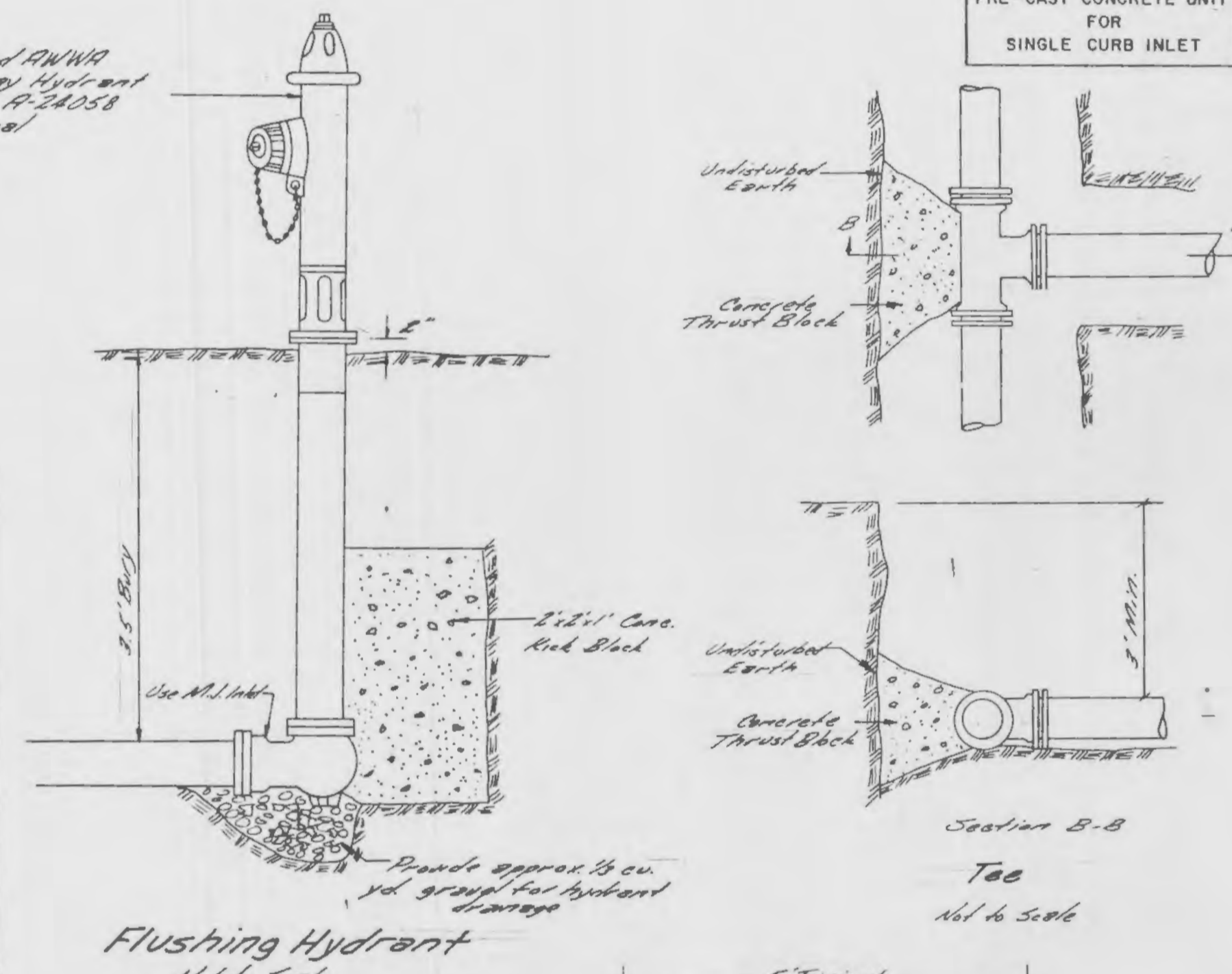


PRE-CAST CONCRETE UNIT FOR SINGLE CURB INLET

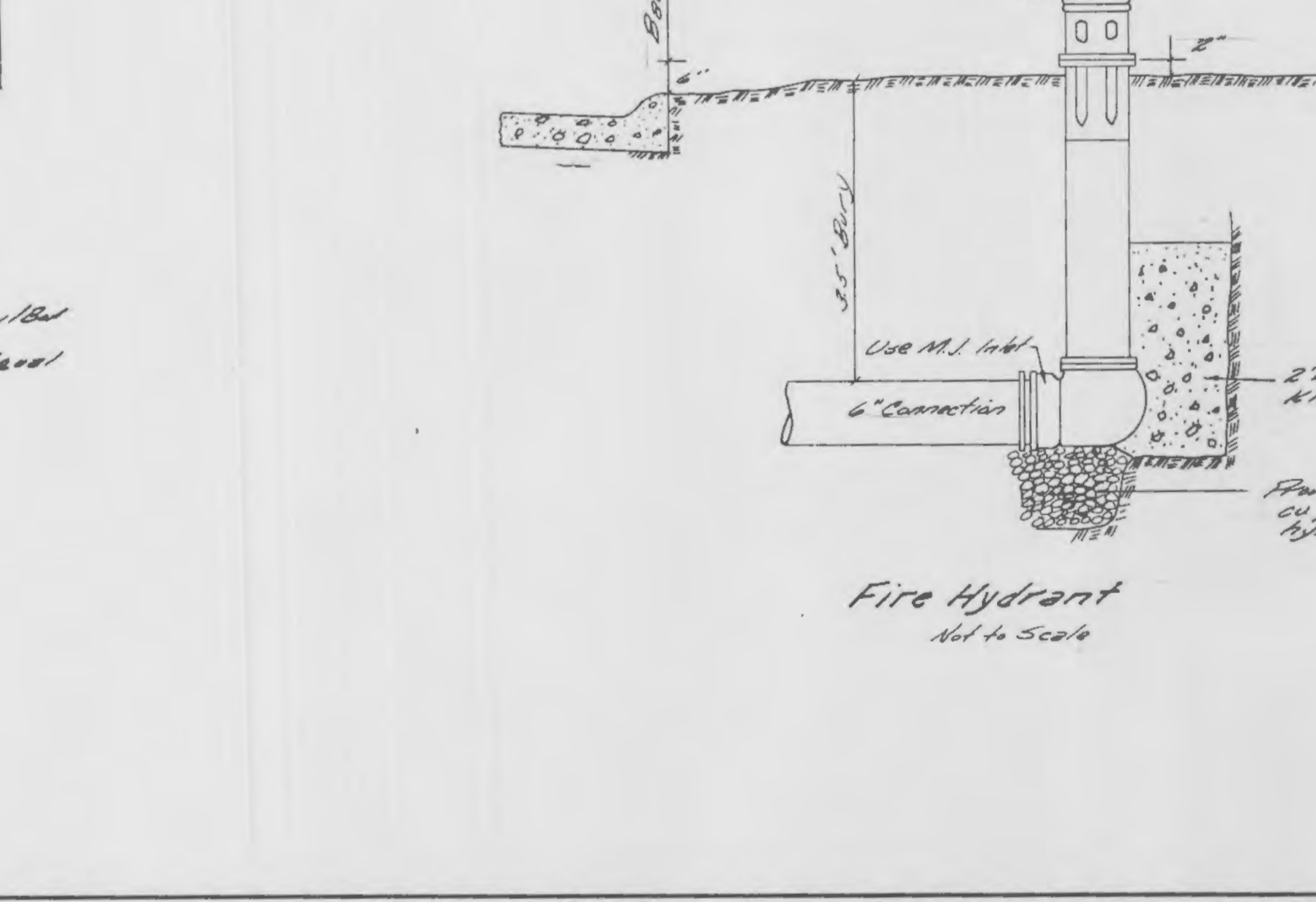
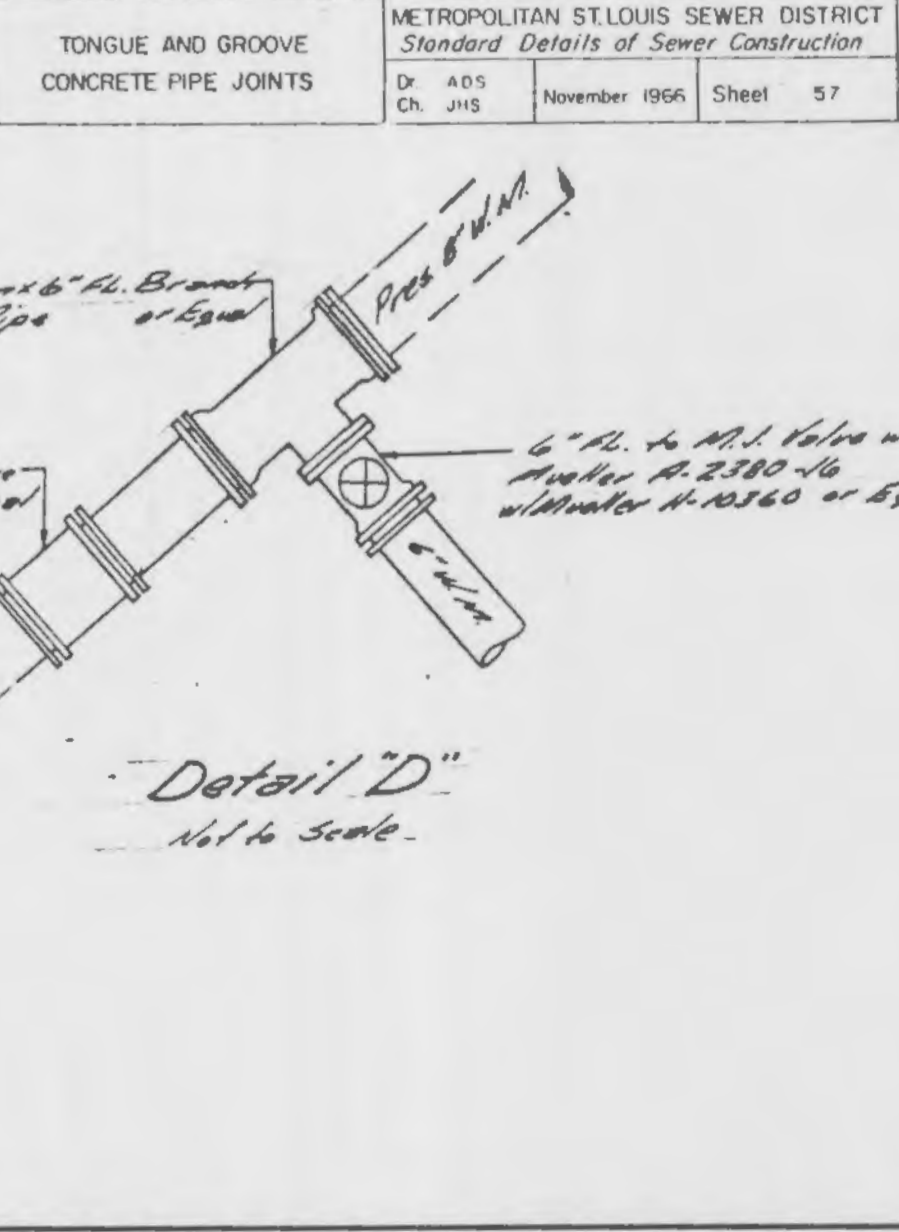
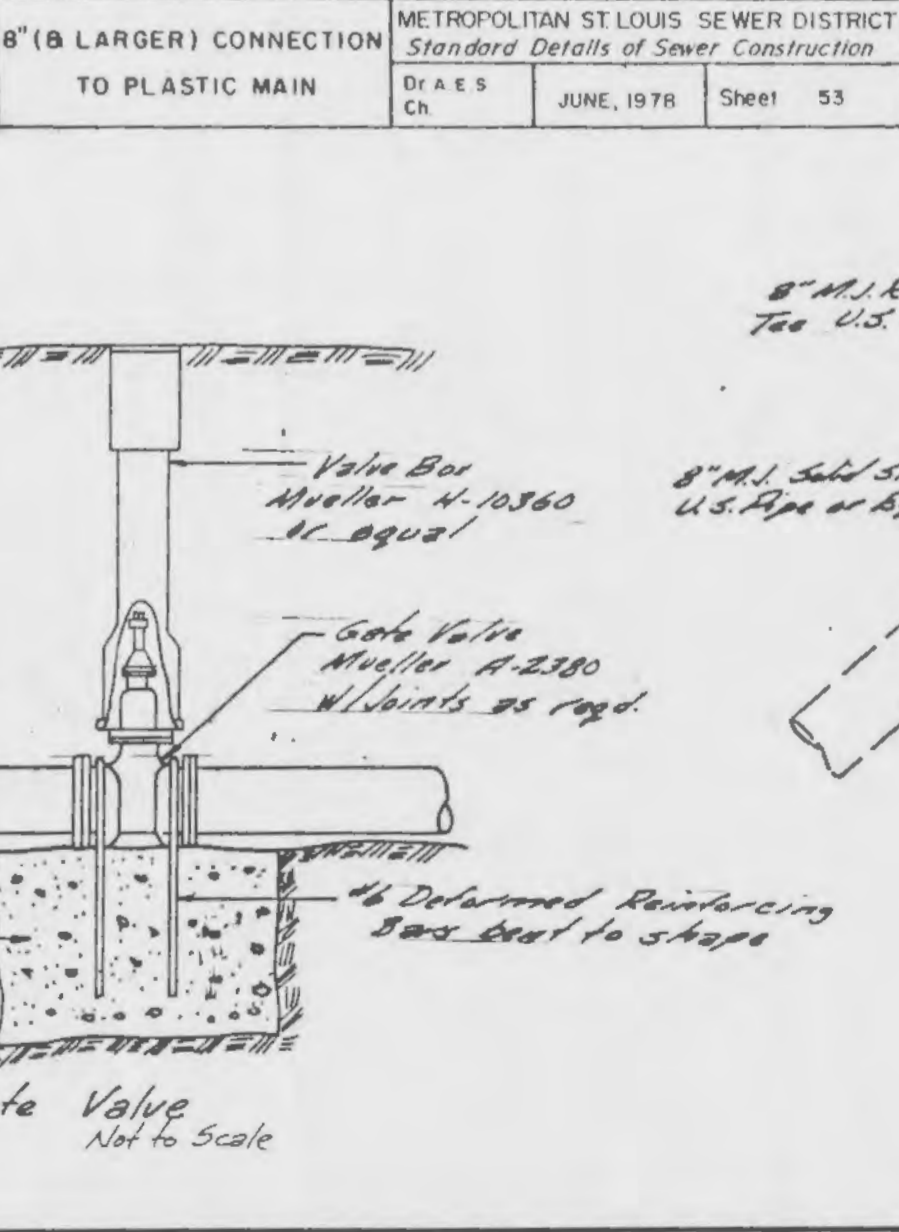
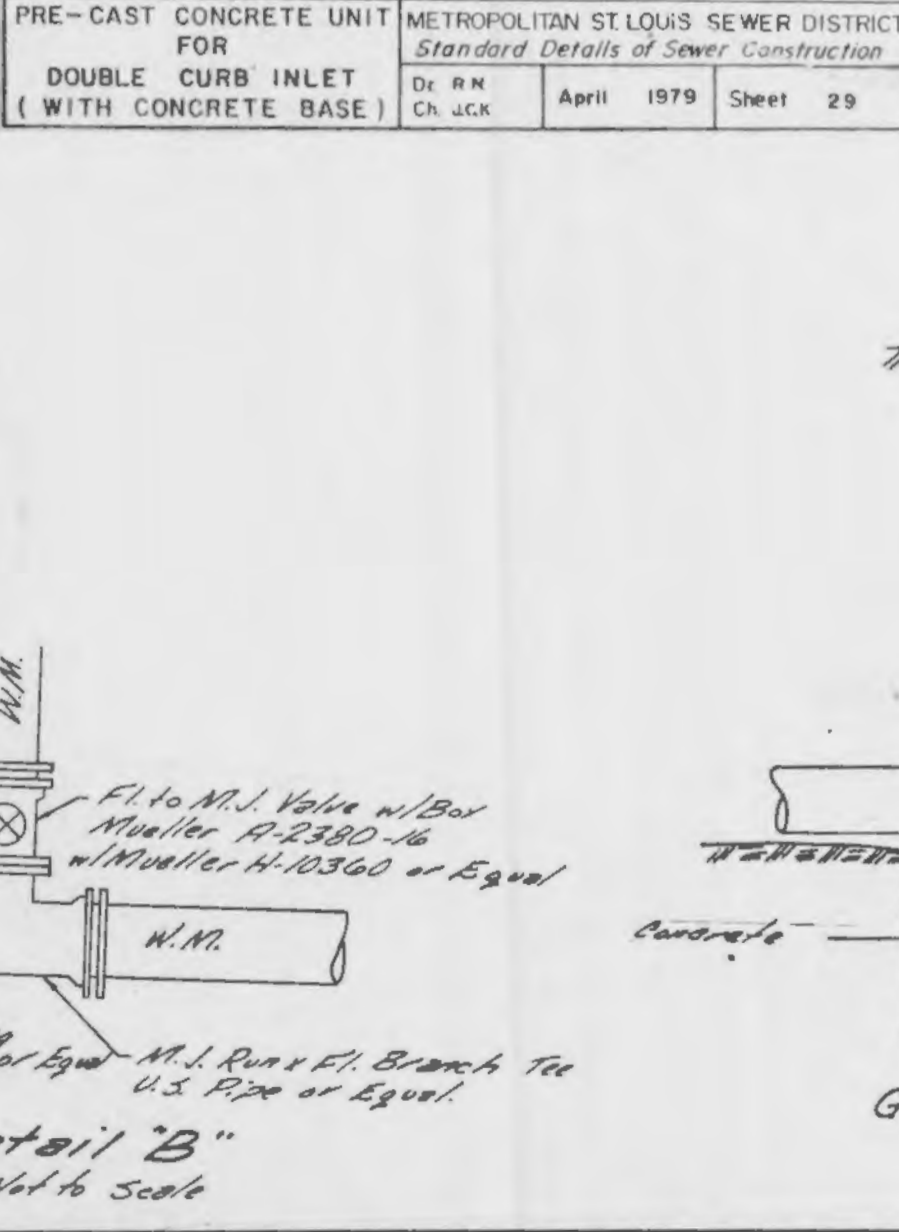
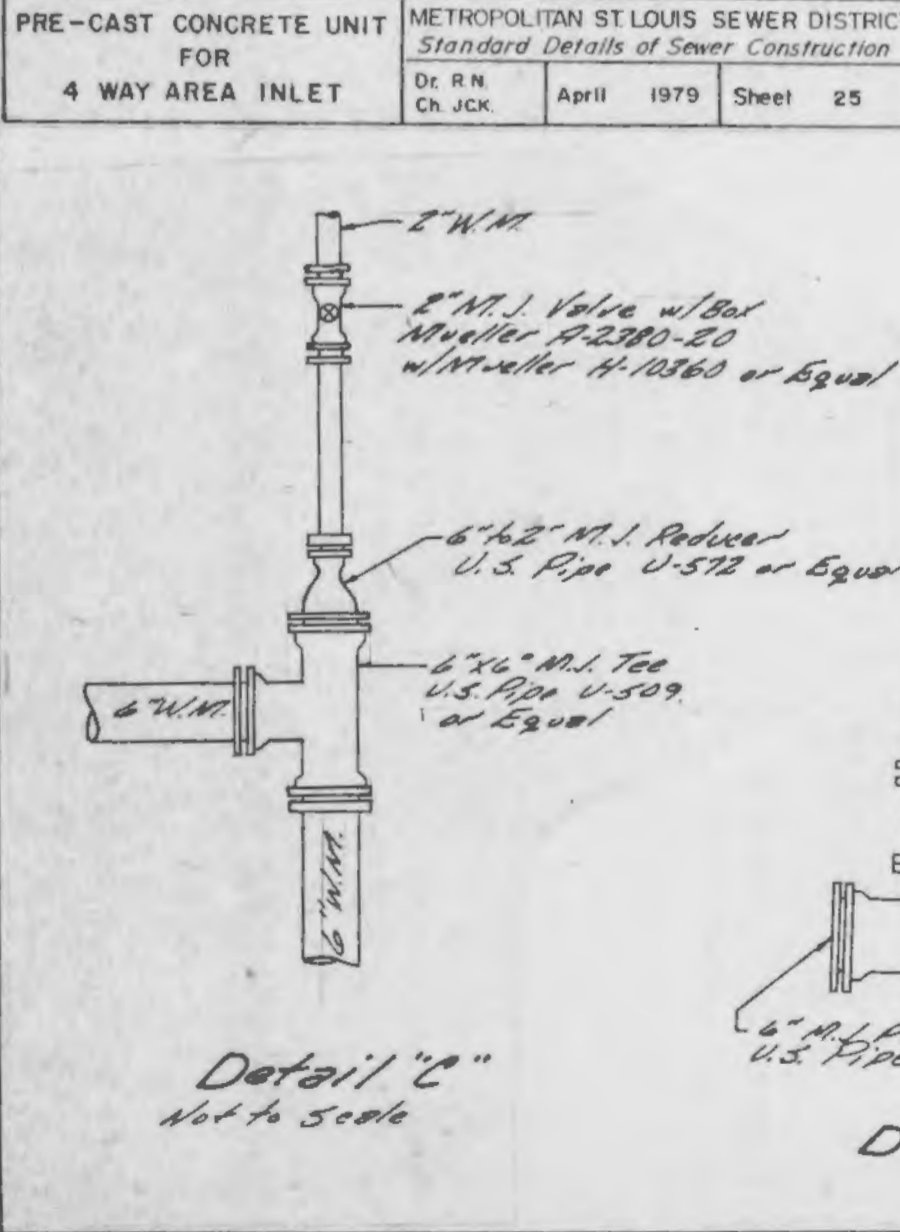
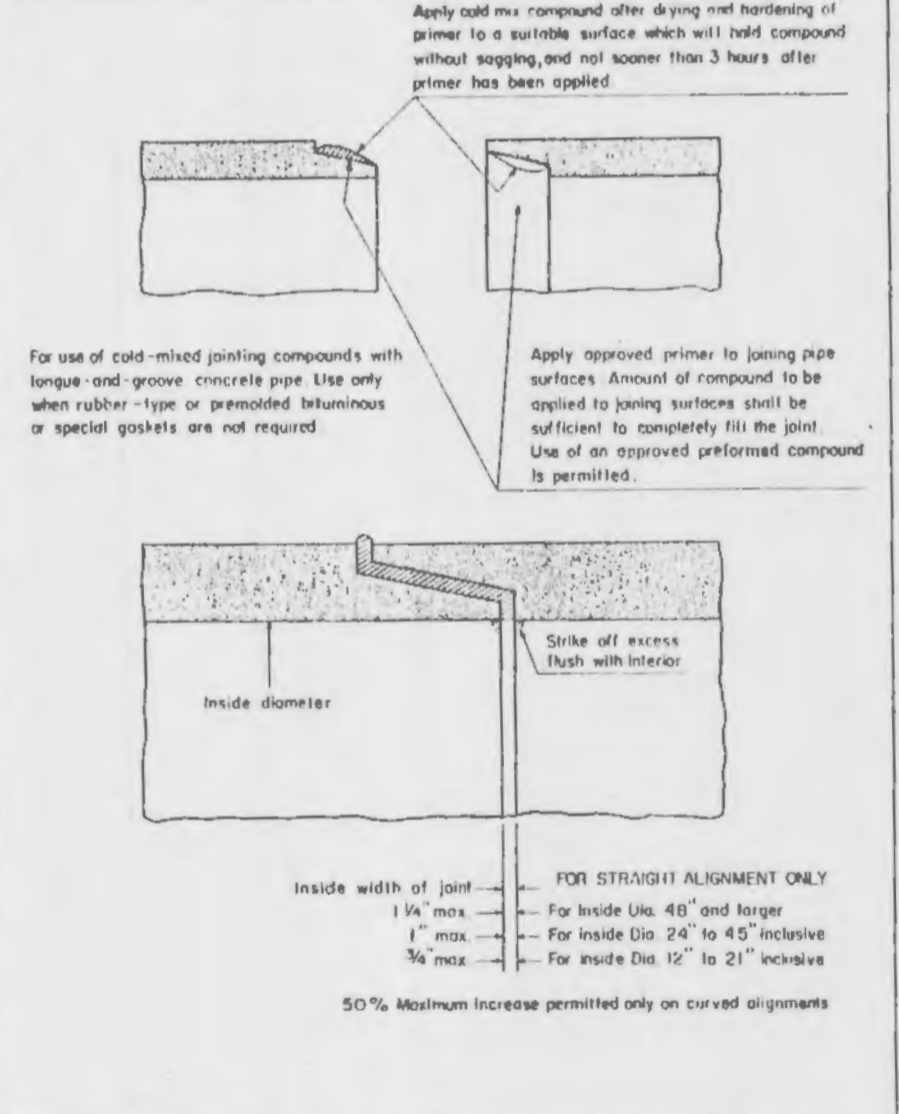
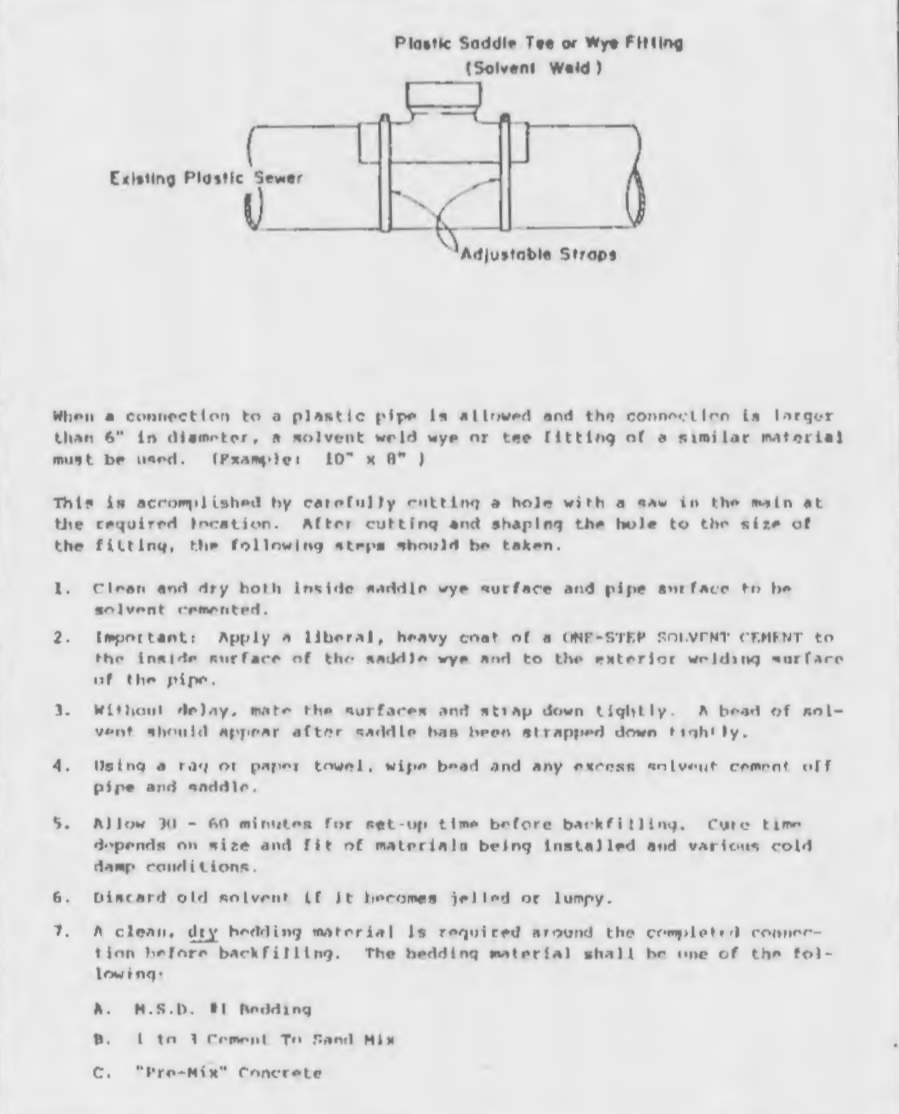
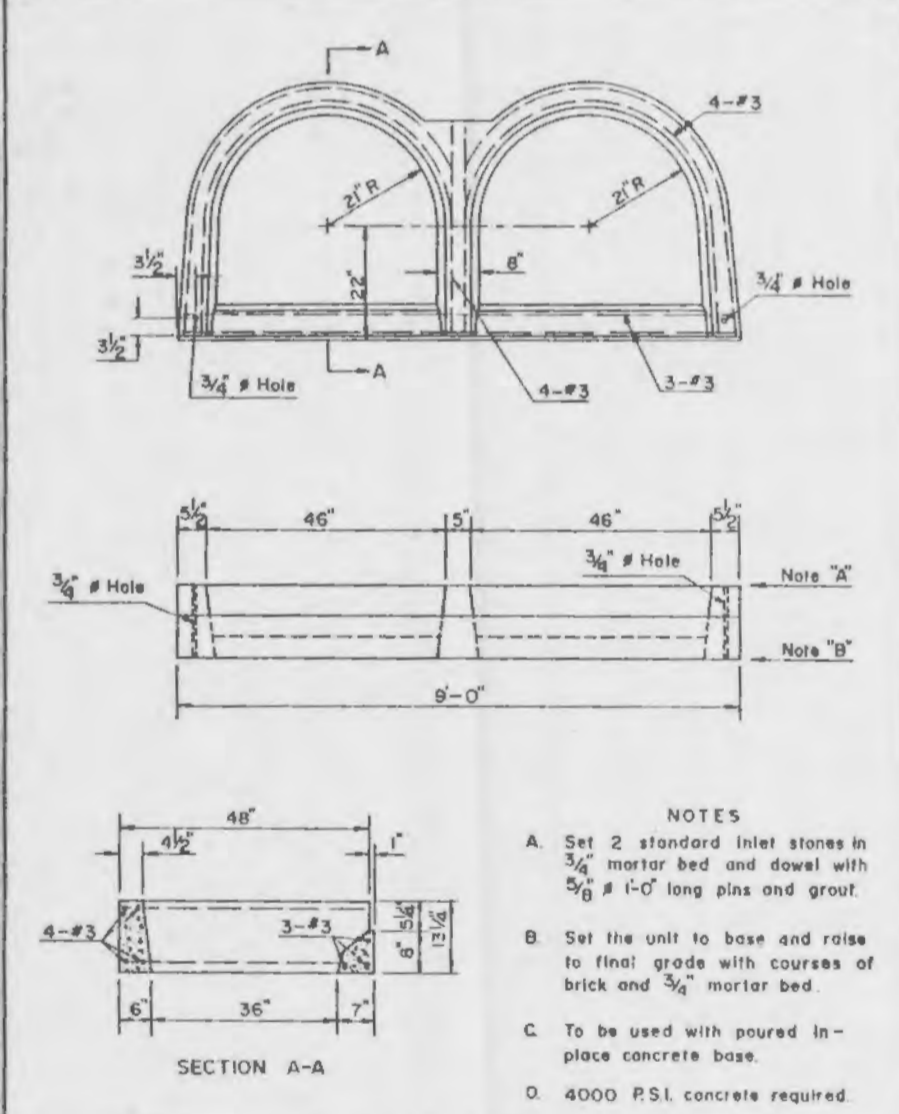
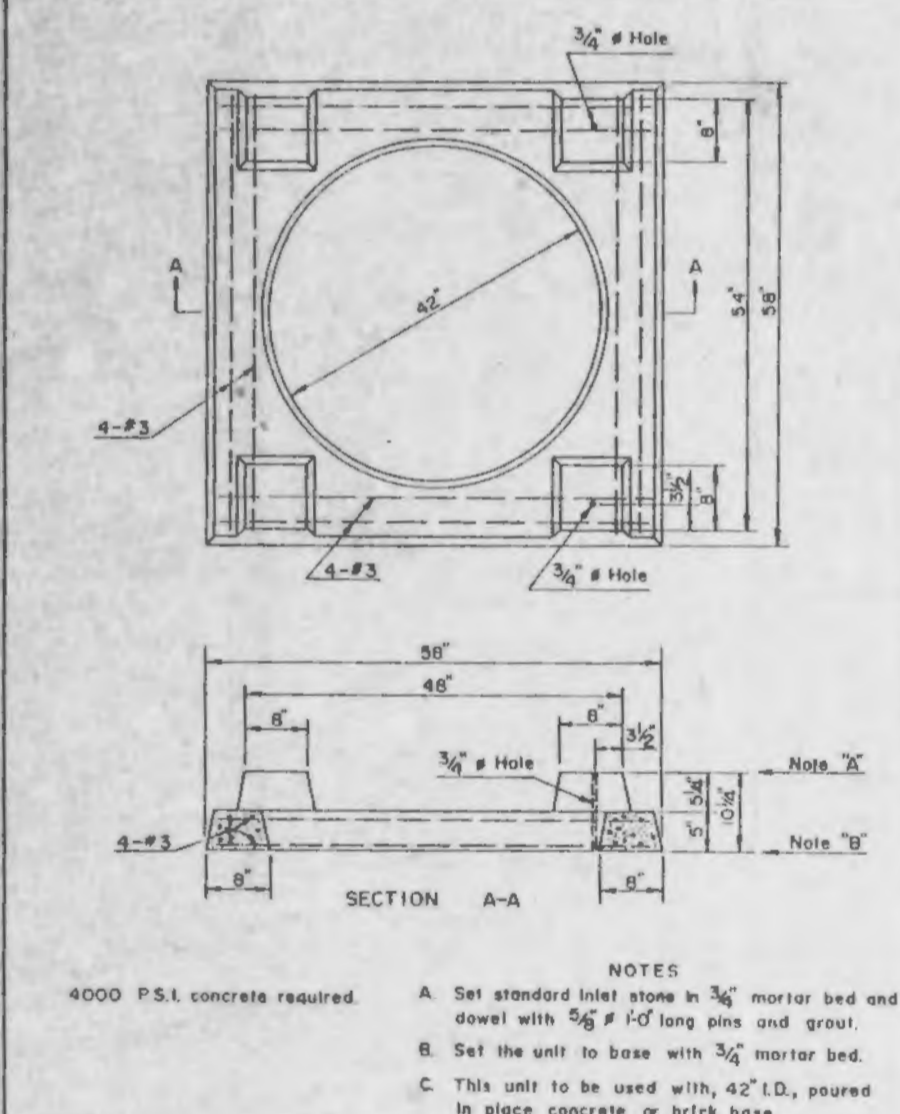
Dr. R. N. Ch. J. K.	April 1979	Sheet 21
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Standard AWWA Type one way Hydrant Mueller A-22058 or Equal



Flushing Hydrant Not to Scale



Fire Hydrant Not to Scale

Main Size	Thrustblock Spacing to adjacent Underdrains	16" Dia.	18" Dia.
2"	5'4"	5'4"	
6"	2'11"	2'11"	
8"	2'15"	2'15"	

Thrustblock Schedules