

ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
HOSE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"T" PAYLINE THICKNESS (FEET)	PAY-VOLUMES CU. FT. PER FT.	INSIDE DIMENSIONS OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"T" PAYLINE THICKNESS (FEET)	PAY-VOLUMES CU. FT. PER FT.
4	30	2.50	3.28				
6	30	2.50	3.59				
8	30	2.50	3.87				
10	30	2.50	4.09				
12	30	2.50	4.25				
15	36	3.00	5.55				
18	36	3.00	5.77	14 x 23	41	3.42	5.94
21	39	3.25	6.61				
24	42	3.50	7.39	19 x 30	49	4.08	7.68
27	45	3.75	8.18	22 x 34	53	4.42	8.61
30	48	4.00	9.30	24 x 38	58	4.83	9.70
33	51	4.42	10.53	27 x 42	62	5.17	10.71
36	54	4.67	11.43	29 x 45	66	5.50	11.72
39	57	5.00	12.48	32 x 49	71	5.92	13.14
42	60	5.25	13.38	34 x 53	75	6.25	14.05
48	70	5.83	15.67	36 x 60	83	6.92	16.18
54	77	6.42	18.15	42 x 68	92	7.87	18.81
60	84	7.00	20.73	48 x 76	101	8.42	21.59
66	91	7.58	23.45	53 x 83	109	9.08	24.35
72	98	8.17	26.37	58 x 91	118	9.83	27.45
78	105	8.75	29.39	63 x 98	126	10.50	30.50
84	112	9.33	32.57	68 x 106	135	11.25	33.91
90	119	9.92	35.90	72 x 113	143	11.92	36.99
96	126	10.50	39.37	77 x 121	152	12.67	40.69
102	133	11.08	42.99	82 x 128	160	13.33	44.45
108	140	11.67	46.75	87 x 136	168	14.00	47.79
114	147	12.25	50.68	92 x 143	176	14.67	51.70
120	154	12.83	54.72	97 x 151	185	15.42	56.01
126	161	13.42	58.92				
132	168	14.00	63.27	106 x 166	202	16.83	64.48
144	182	15.17	72.40	116 x 180	218	18.17	73.59

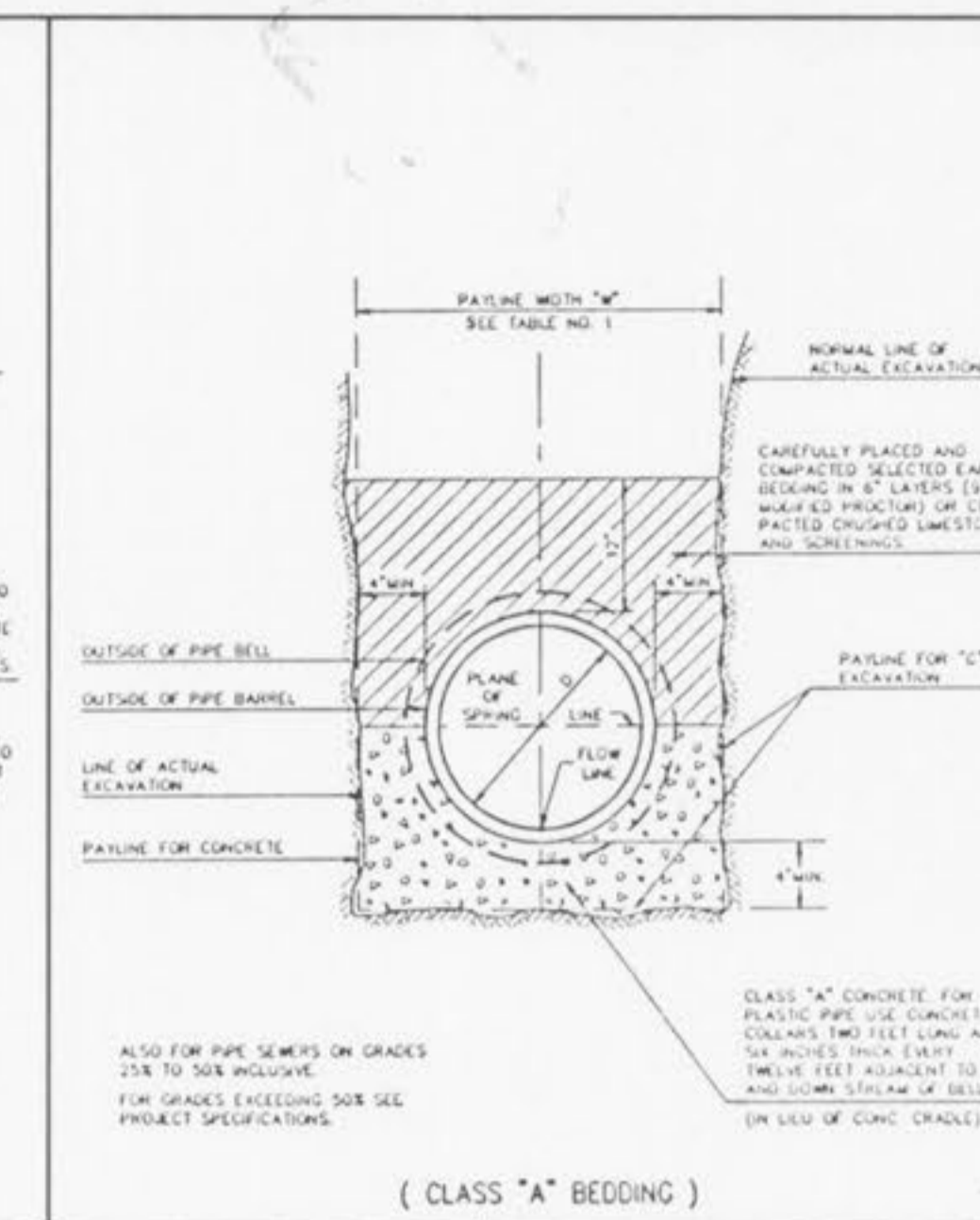
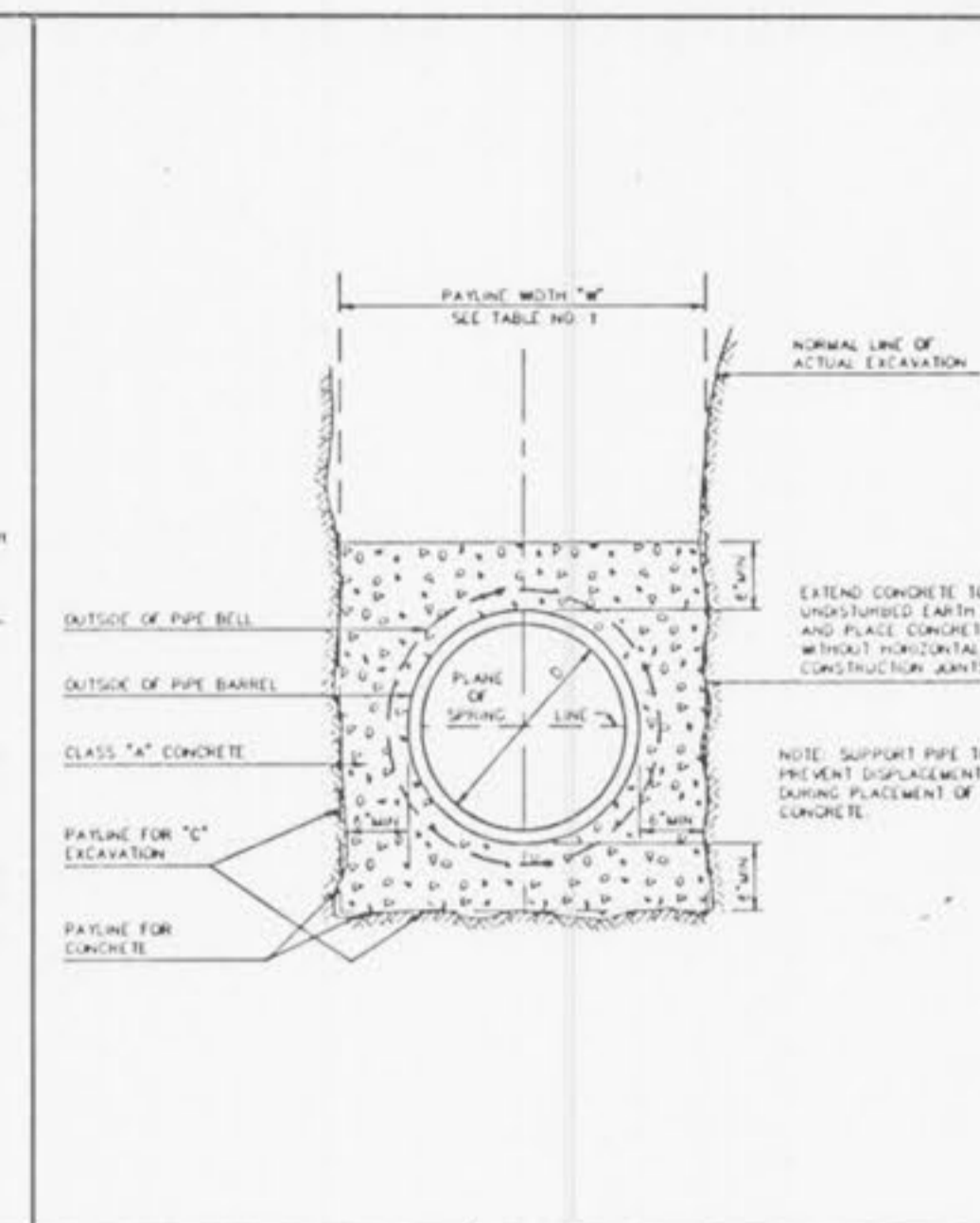
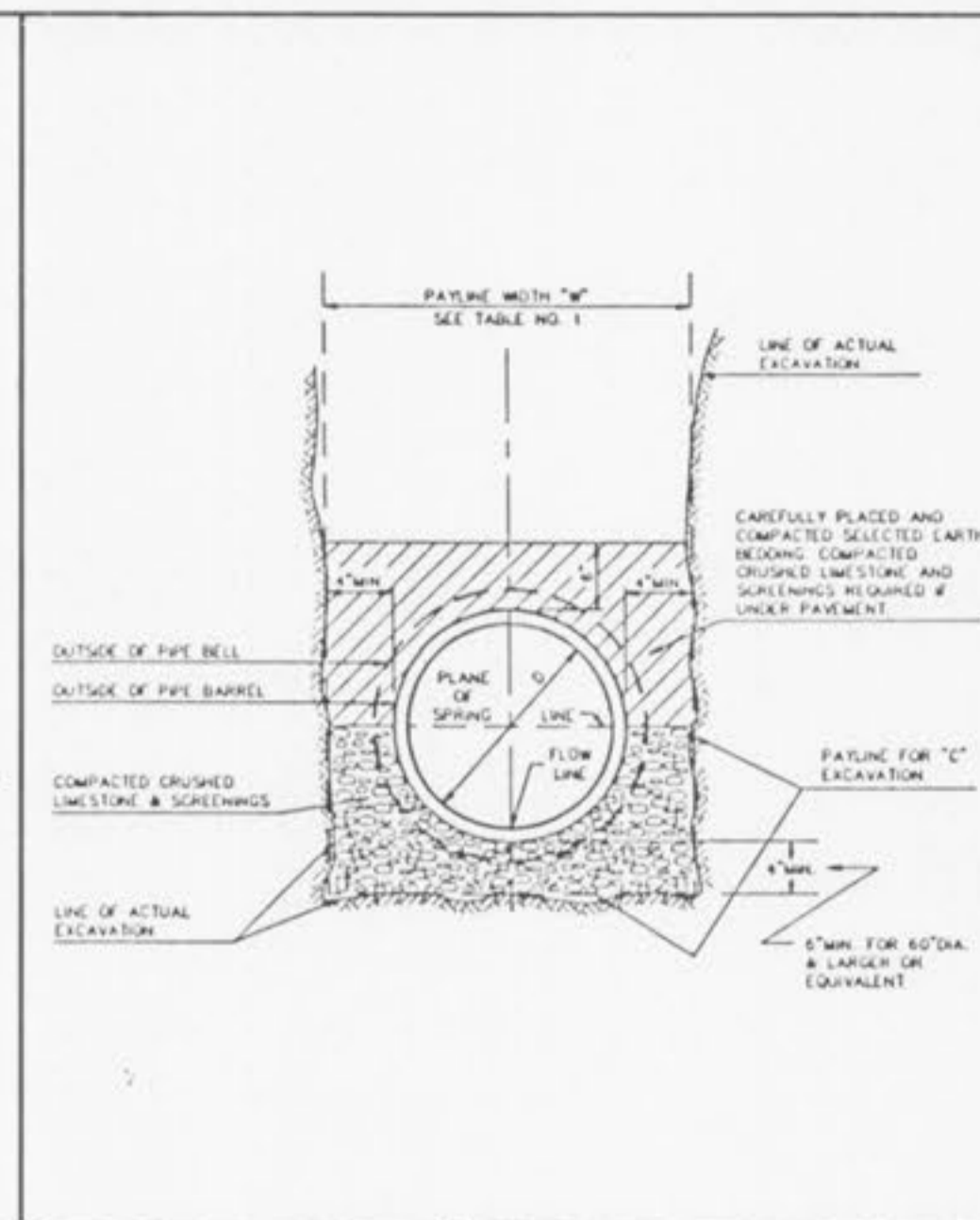
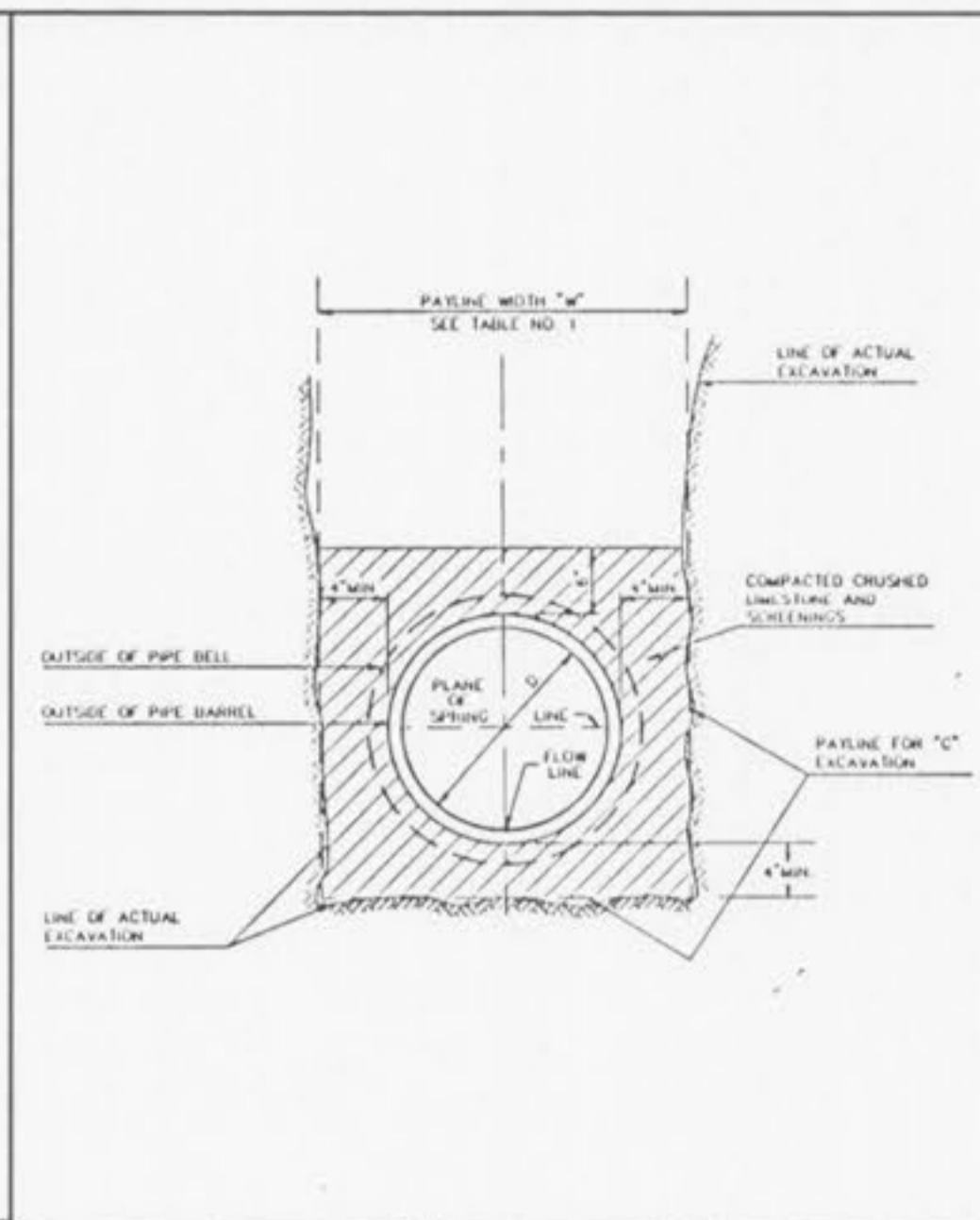
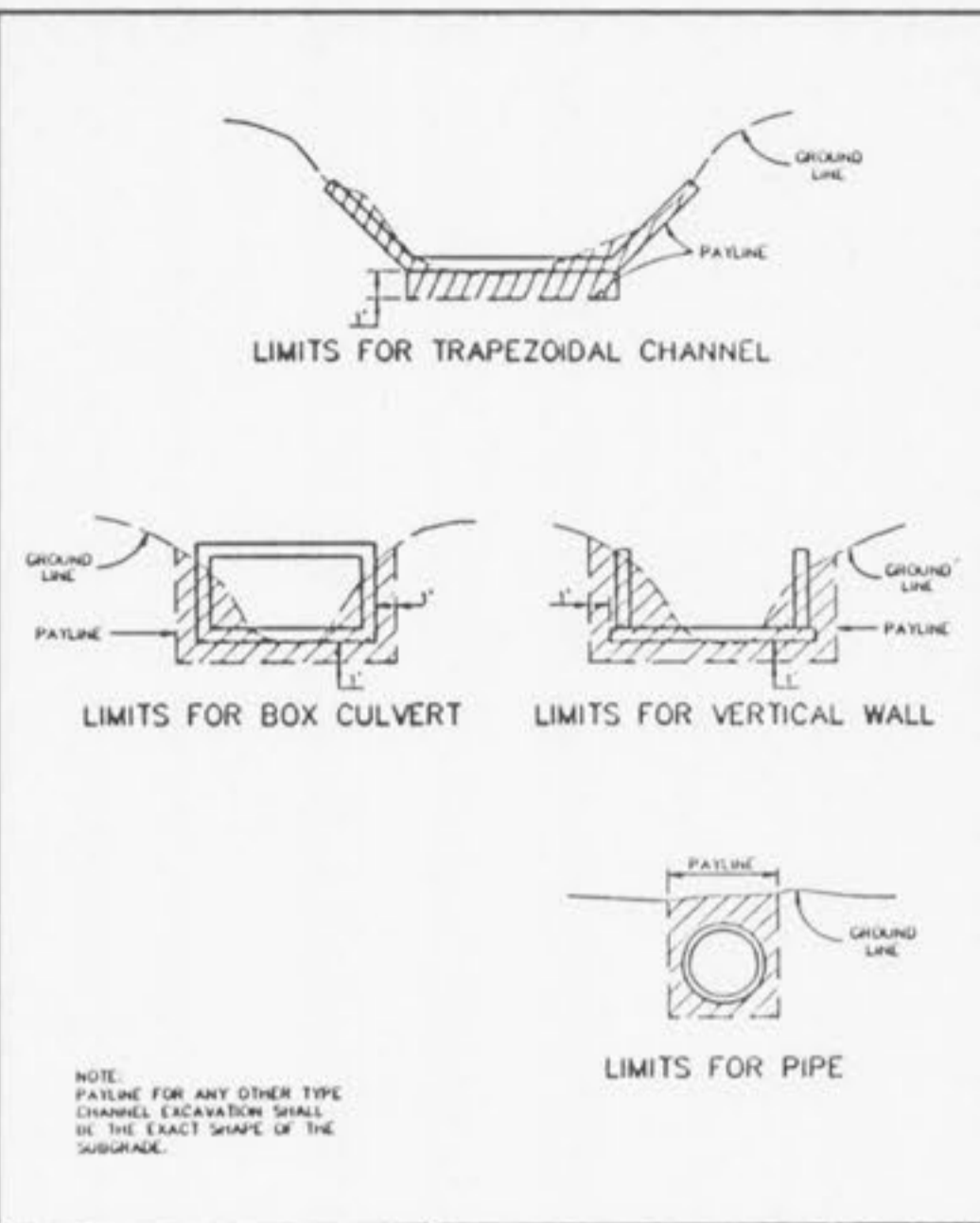
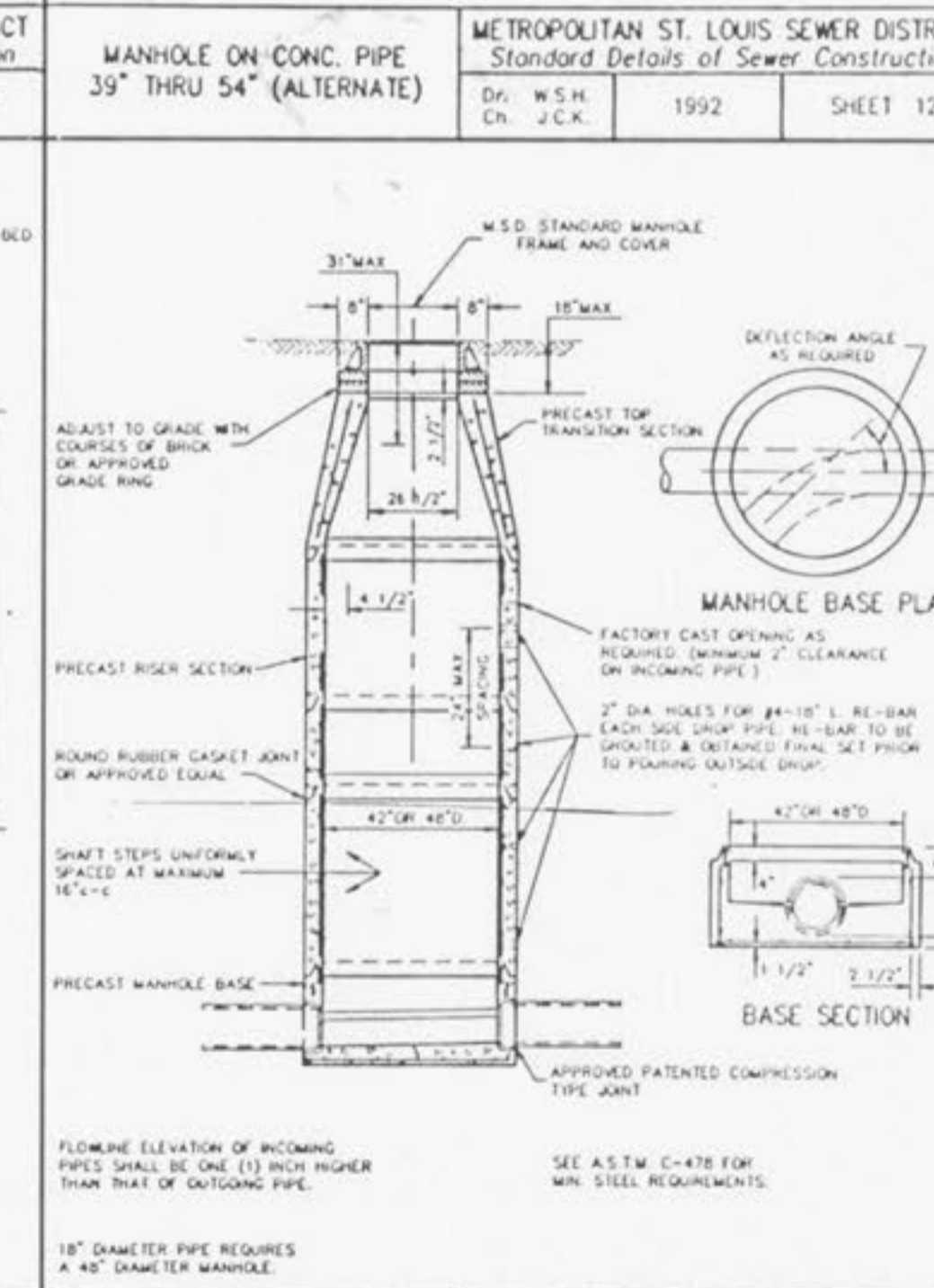
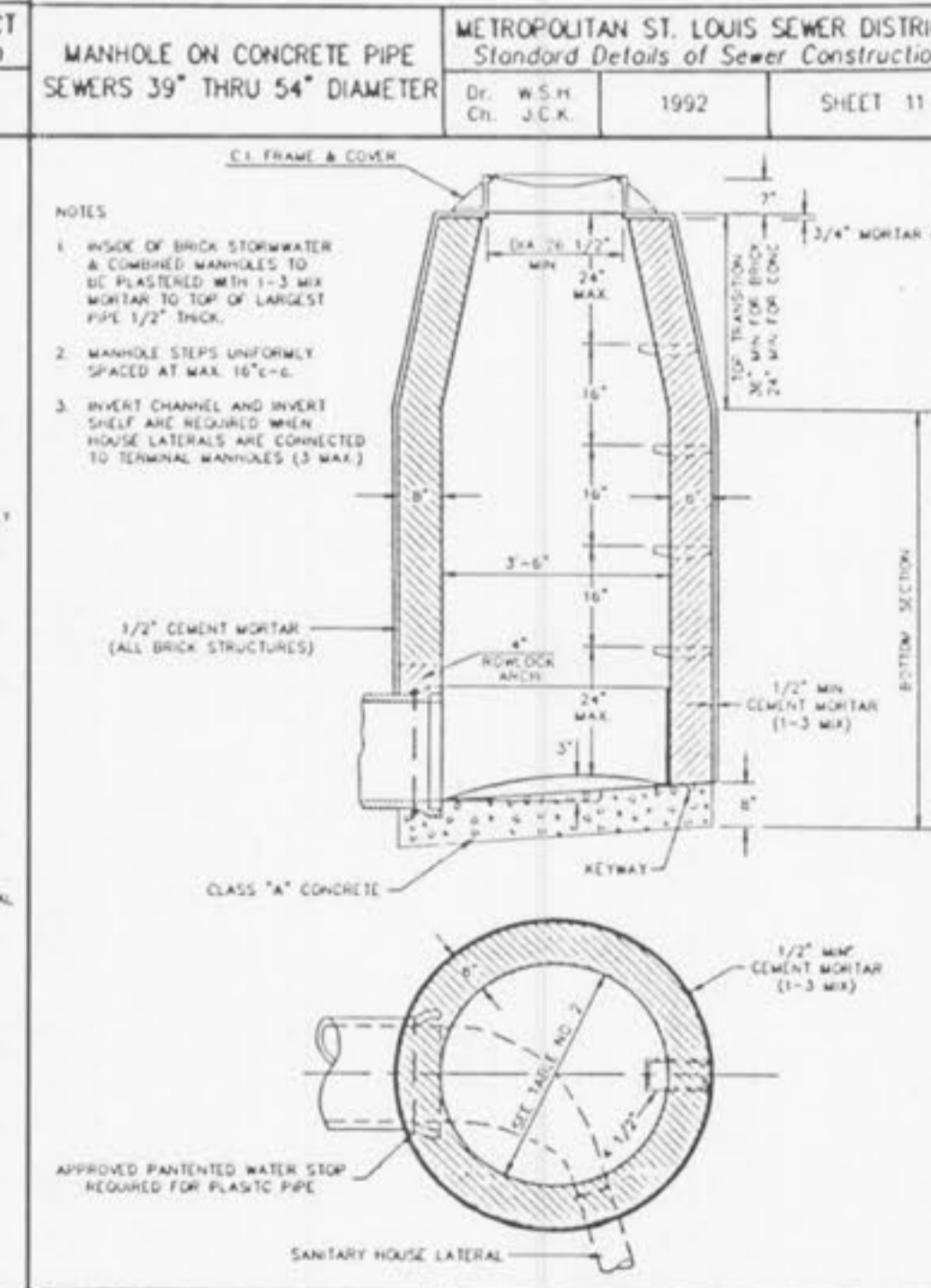
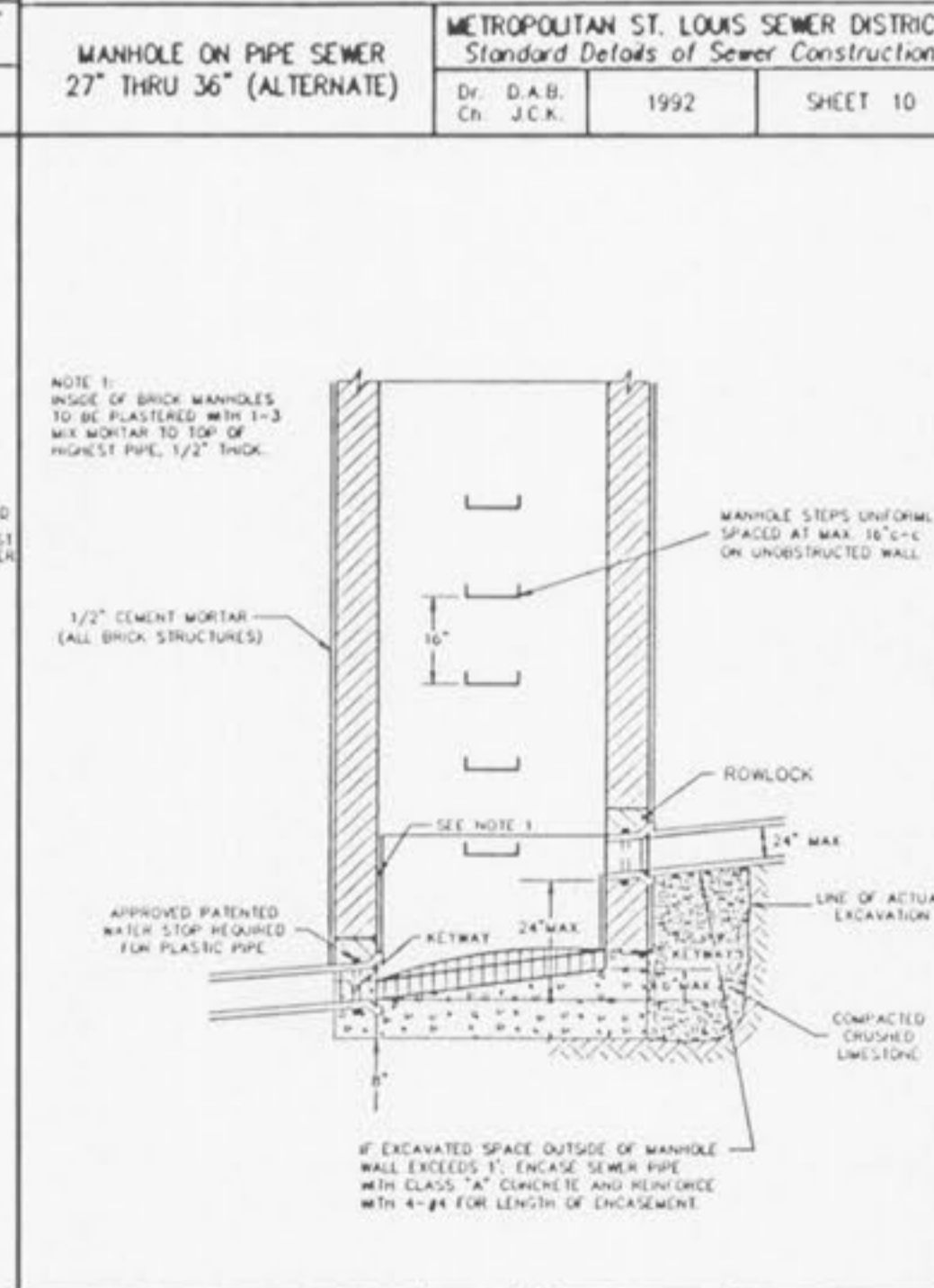
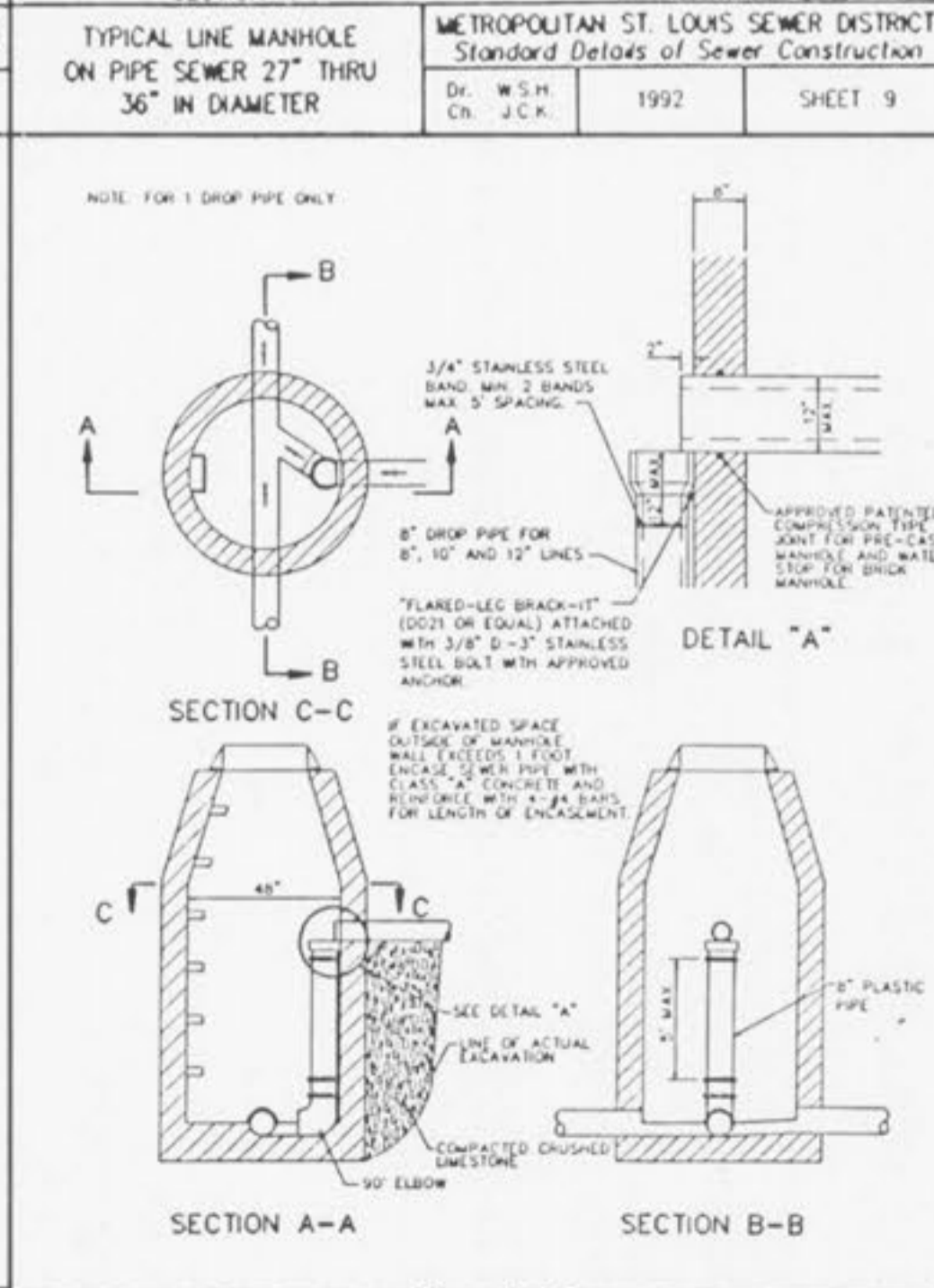
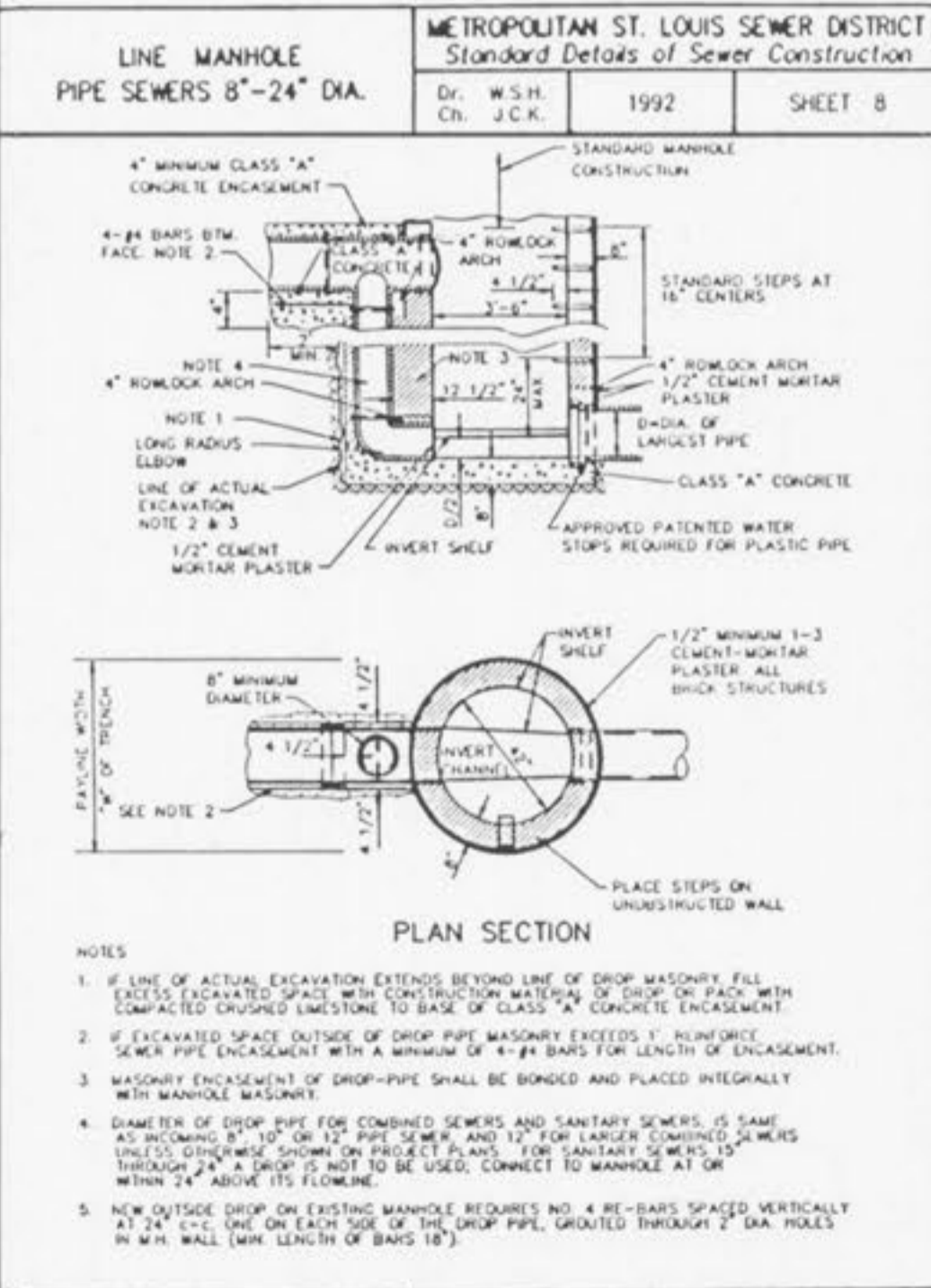
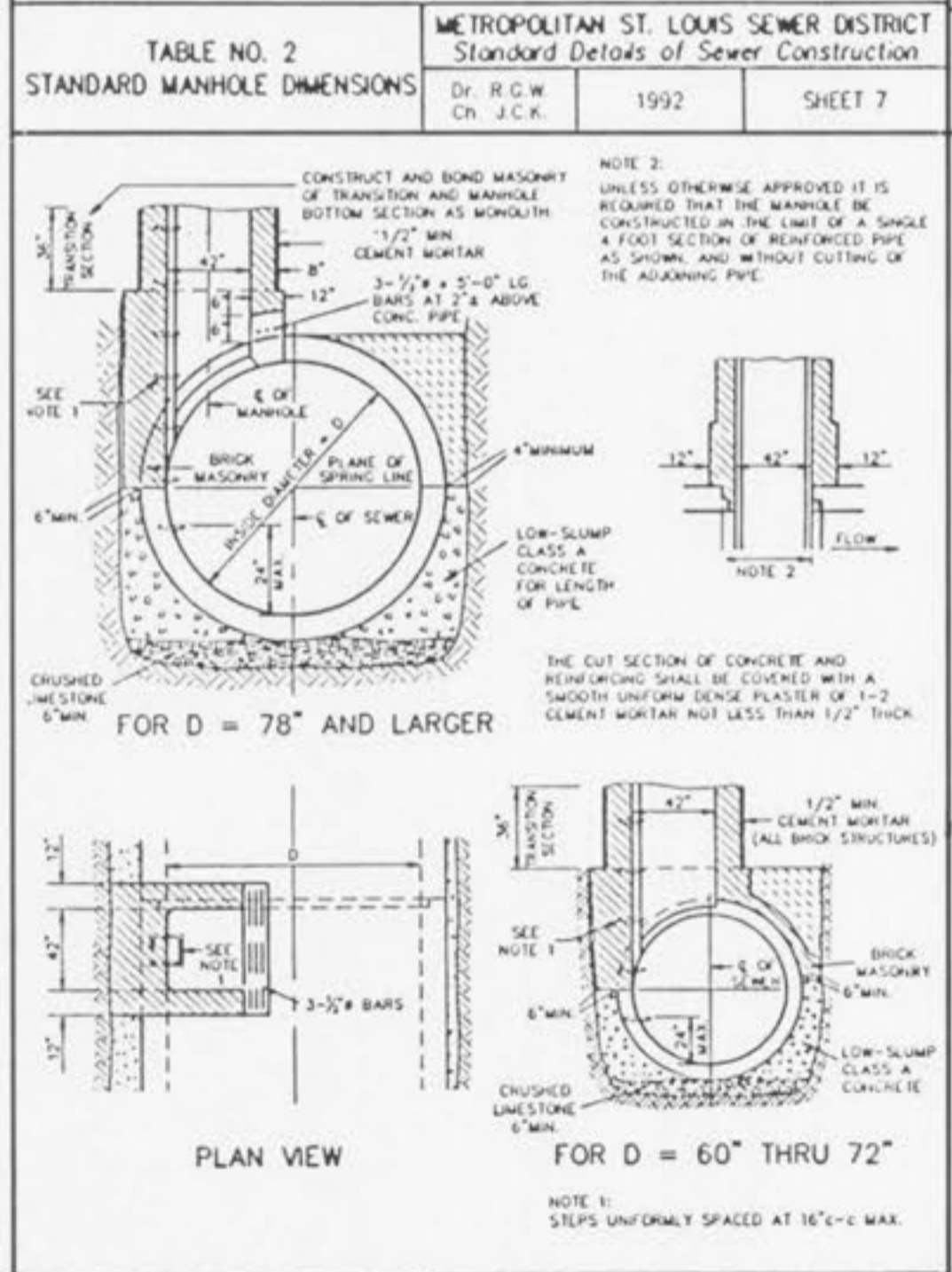
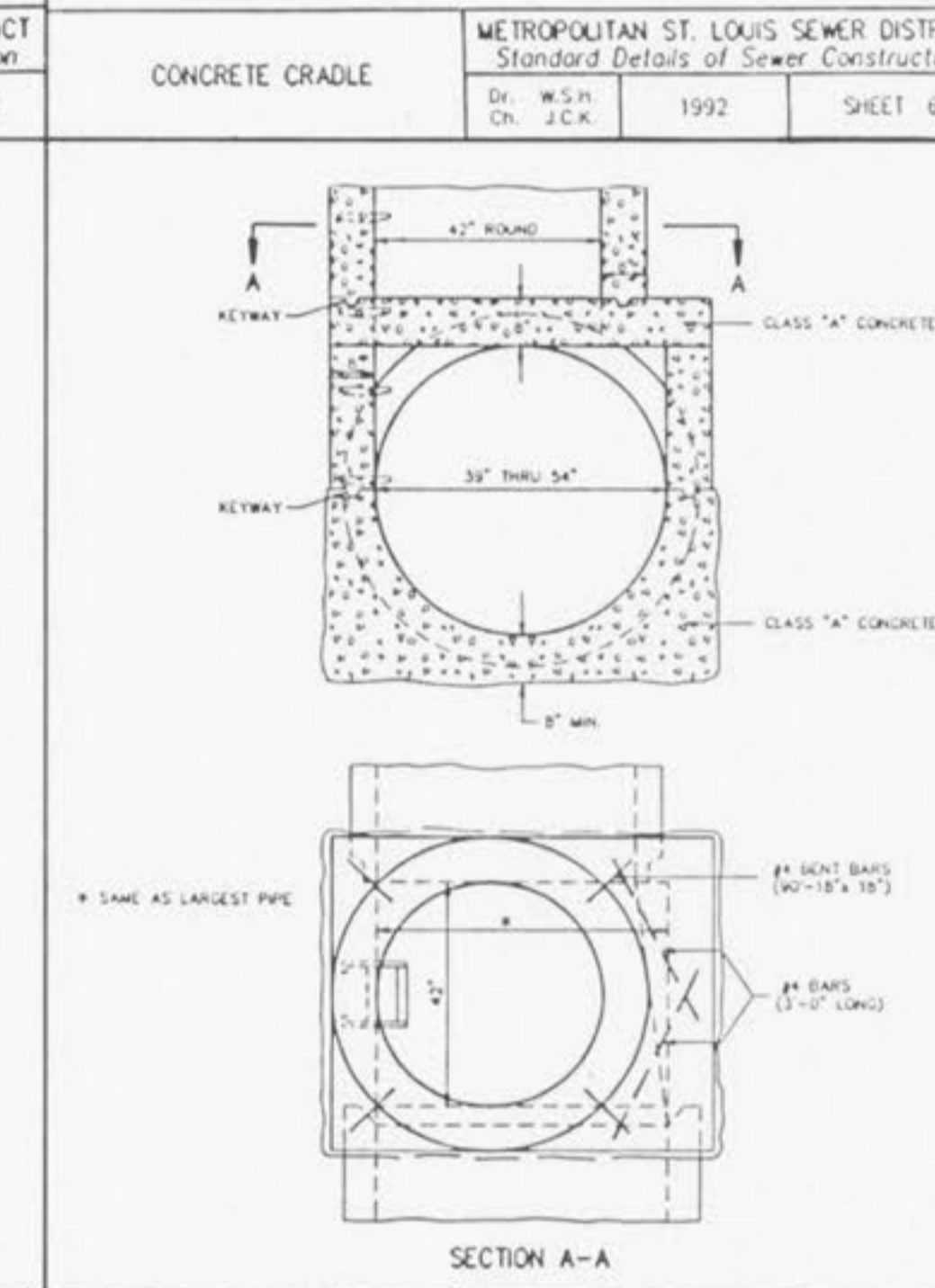
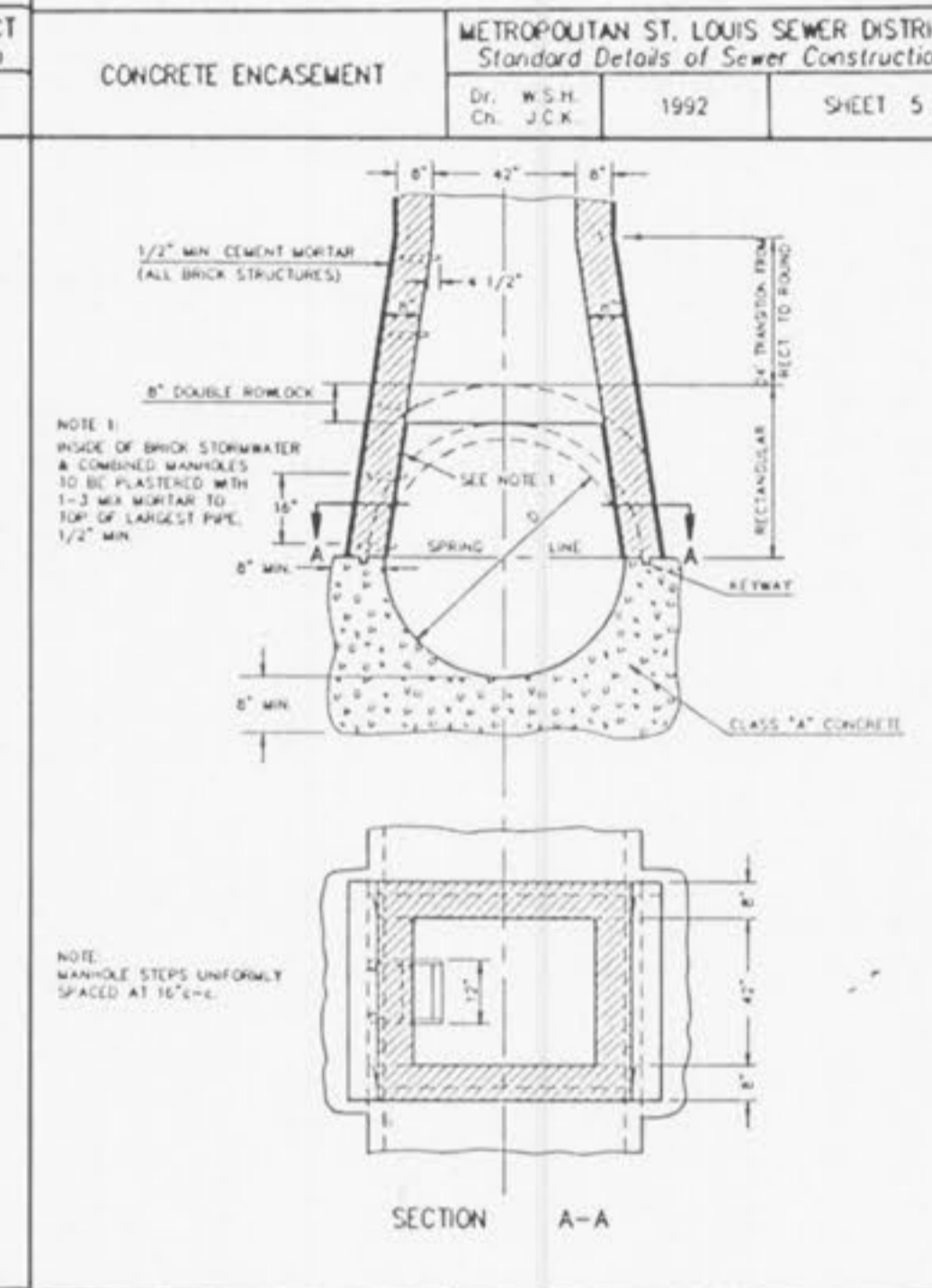
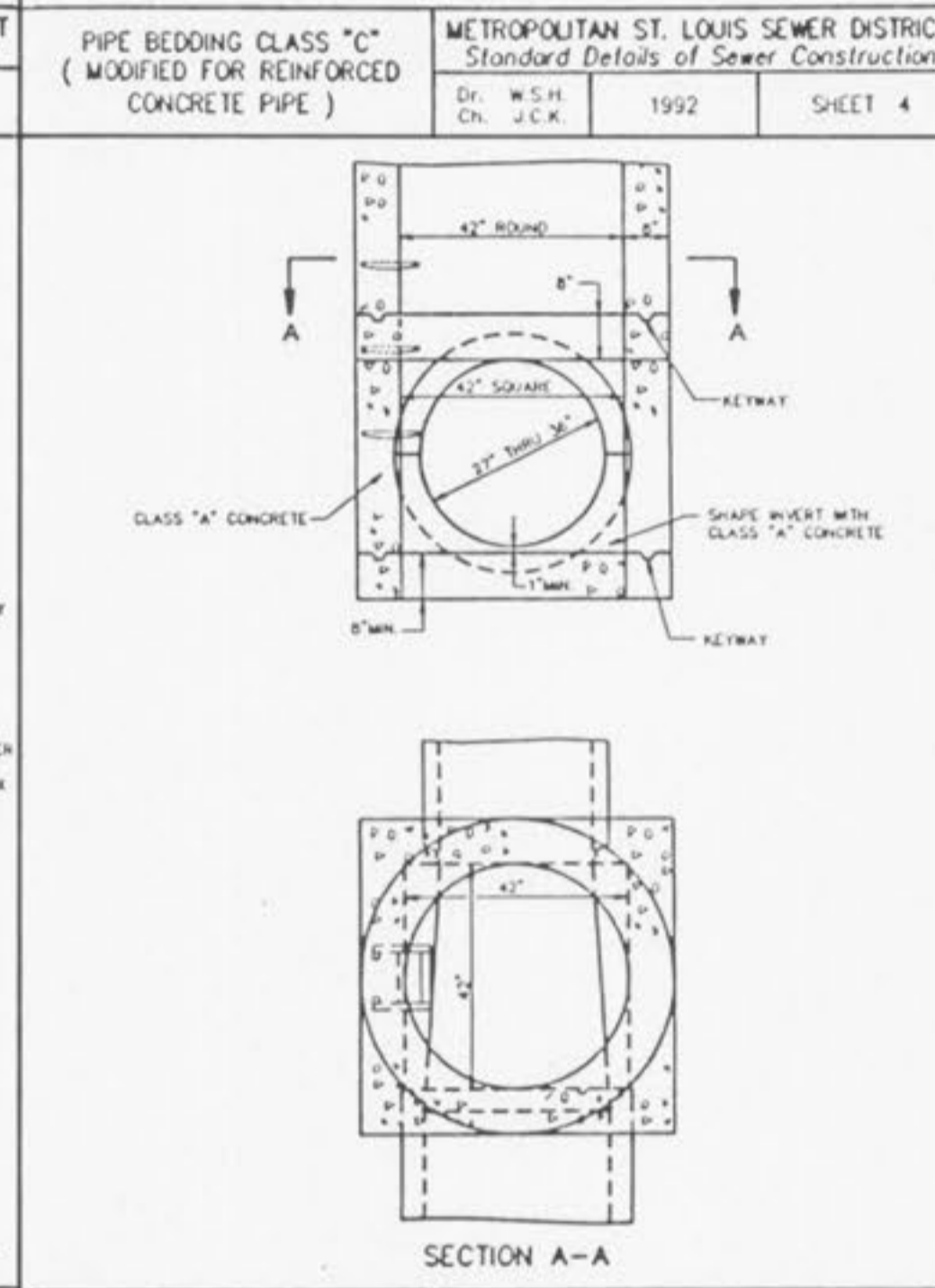
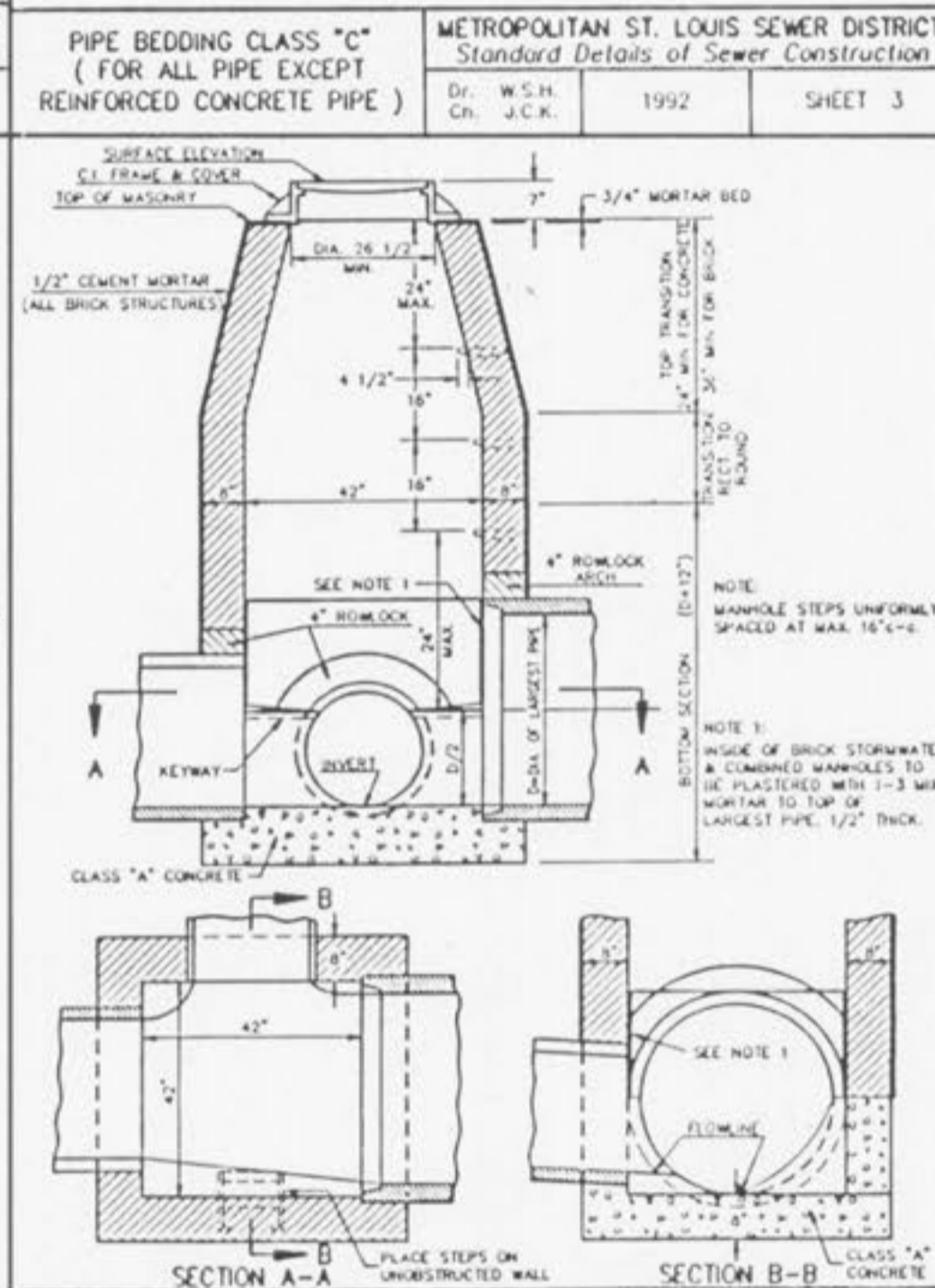
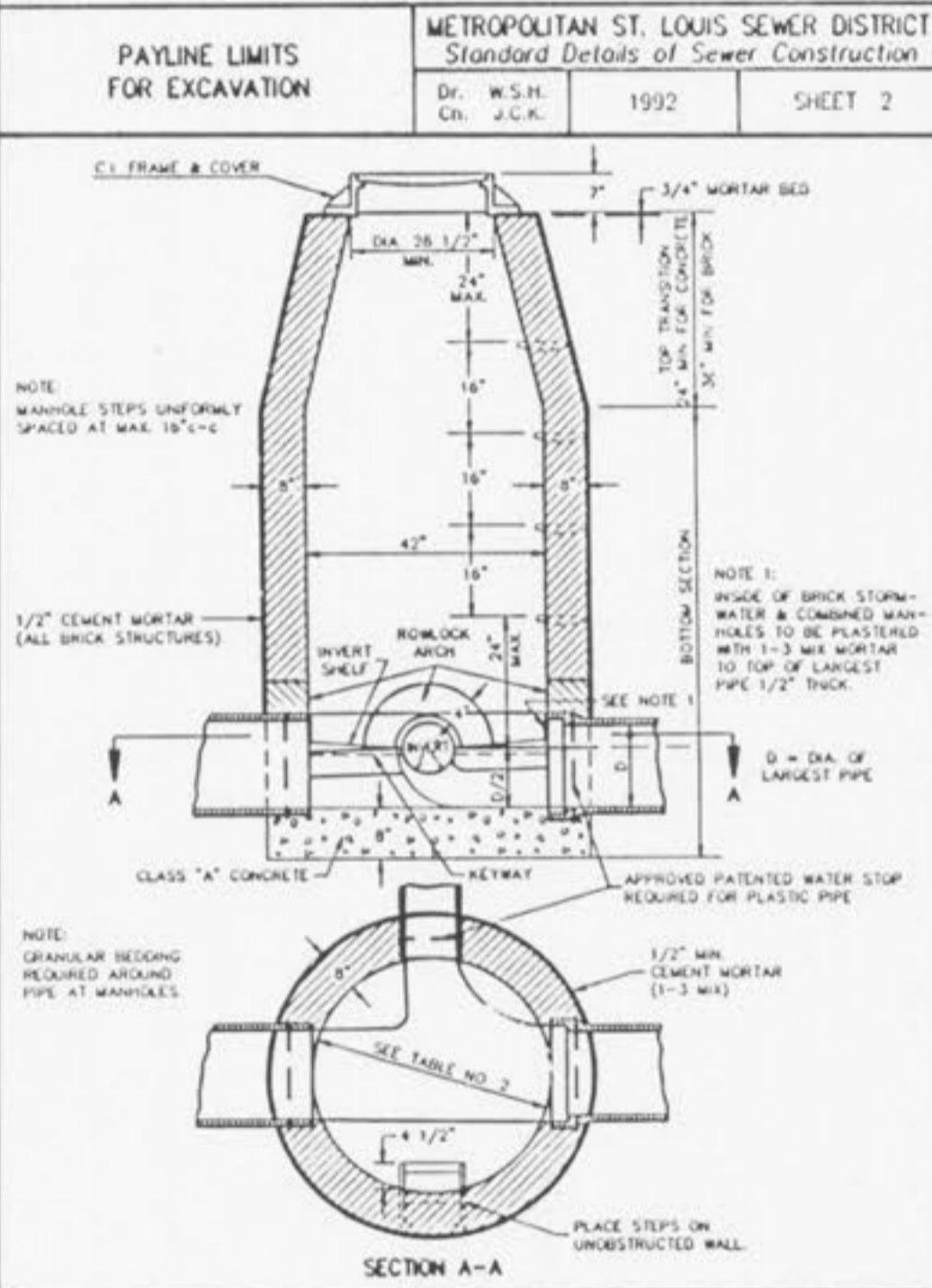


TABLE 1 PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE

Dr. B.E.B. Ch. J.C.K. 1992 SHEET 1

TABLE 2 STANDARD MANHOLE DIMENSIONS

SECTION OF MANHOLE	DIMENSION
TOP UPPER	26 1/2" DIA.
TRANSITION LOWER	42" DIA.
BOTTOM SECTION	8" THRU 24" DIA. PIPE
BOTTOM SECTION	27" THRU 36" DIA. PIPE
BOTTOM SECTION	42" SQUARE



TYPICAL MANHOLE BASE REINFORCED CONCRETE PIPE SEWERS 60" AND LARGER IN DIAMETER

Dr. W.S.H. Ch. J.C.K. 1992 SHEET 13

OUTSIDE FOULWATER DROP MANHOLE

Dr. R.G.W. Ch. J.C.K. 1992 SHEET 14

INSIDE FOULWATER DROP MANHOLE

Dr. R.G.W. Ch. J.C.K. 1992 SHEET 15

INSIDE FOULWATER DROP MANHOLE (FOR FREE-FALL)

Dr. W.S.H. Ch. J.C.K. 1992 SHEET 16

TERMINAL MANHOLE

Dr. W.S.H. Ch. J.C.K. 1992 SHEET 17

PRE-CAST CONCRETE MANHOLE FOR SEWERS 8" THROUGH 18"

Dr. W.S.H. Ch. J.C.K. 1992 SHEET 18