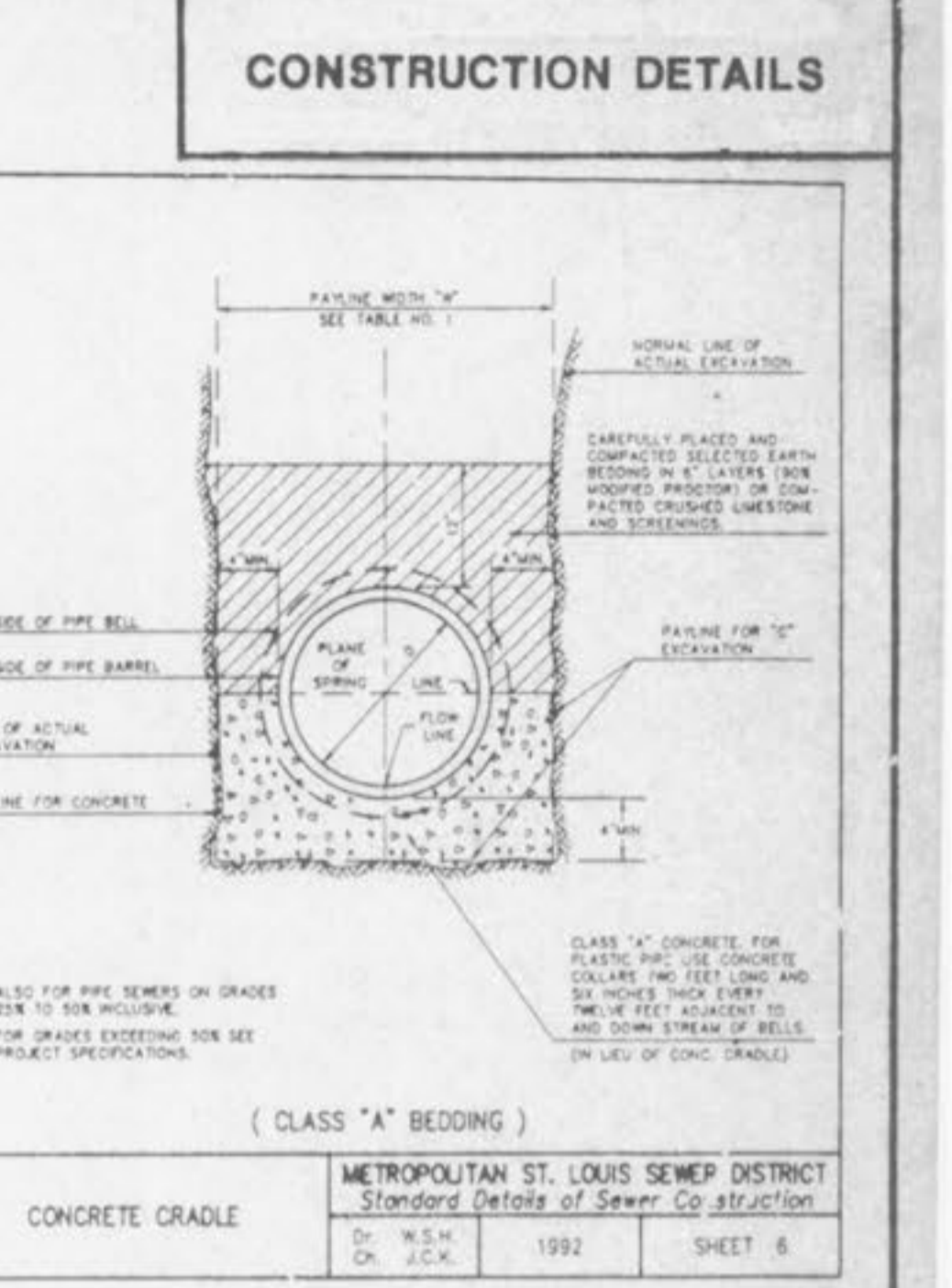
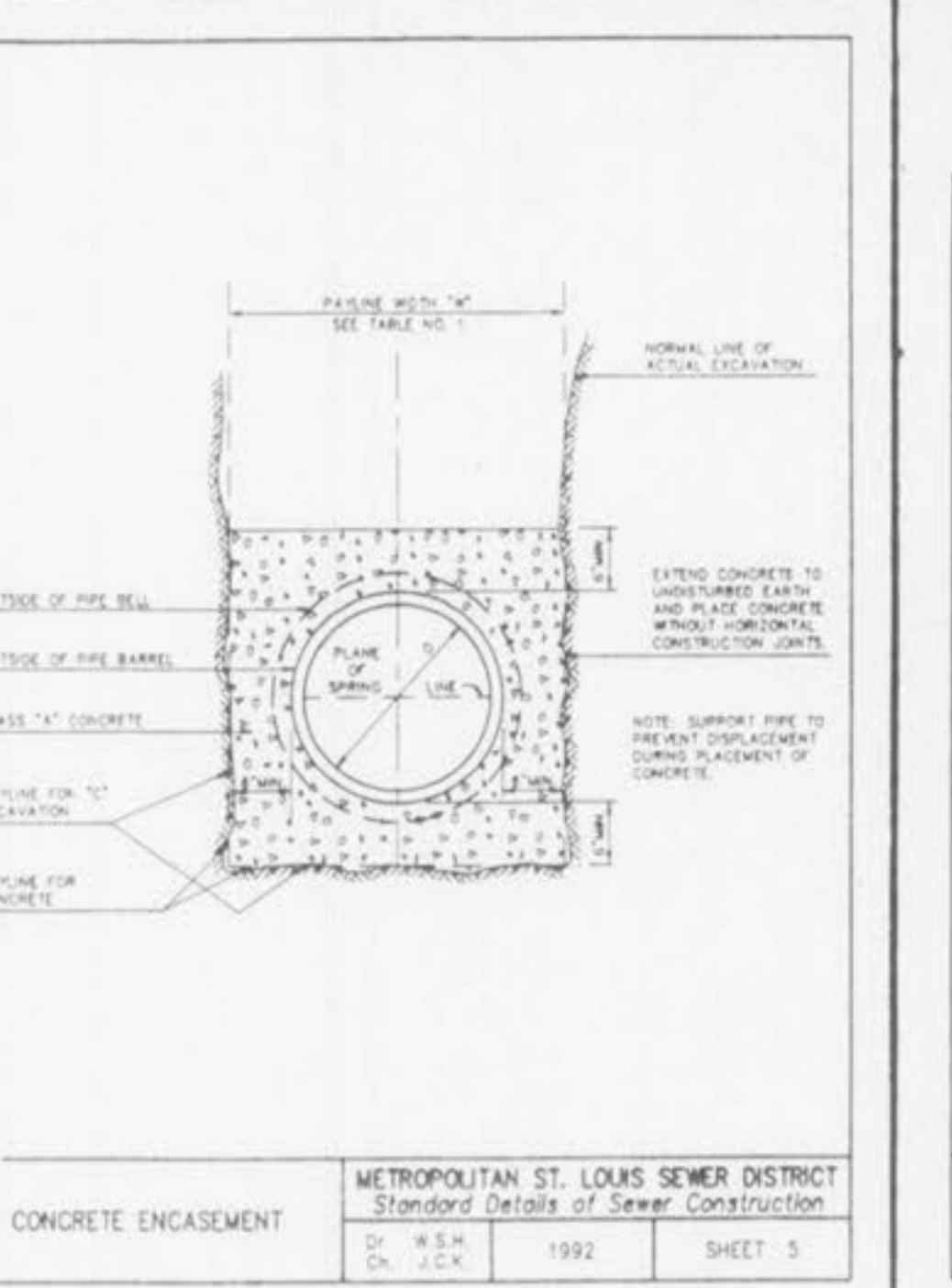
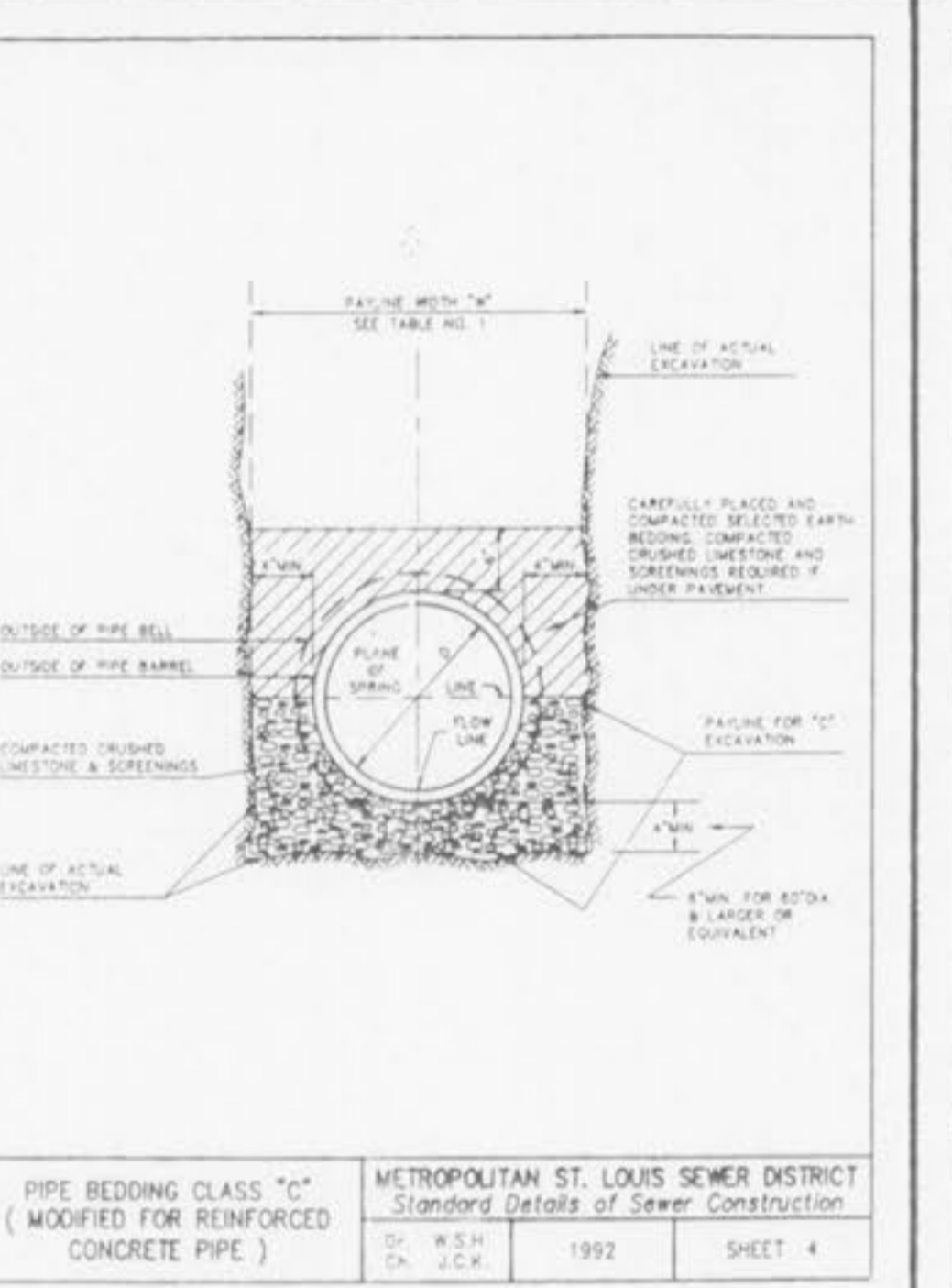
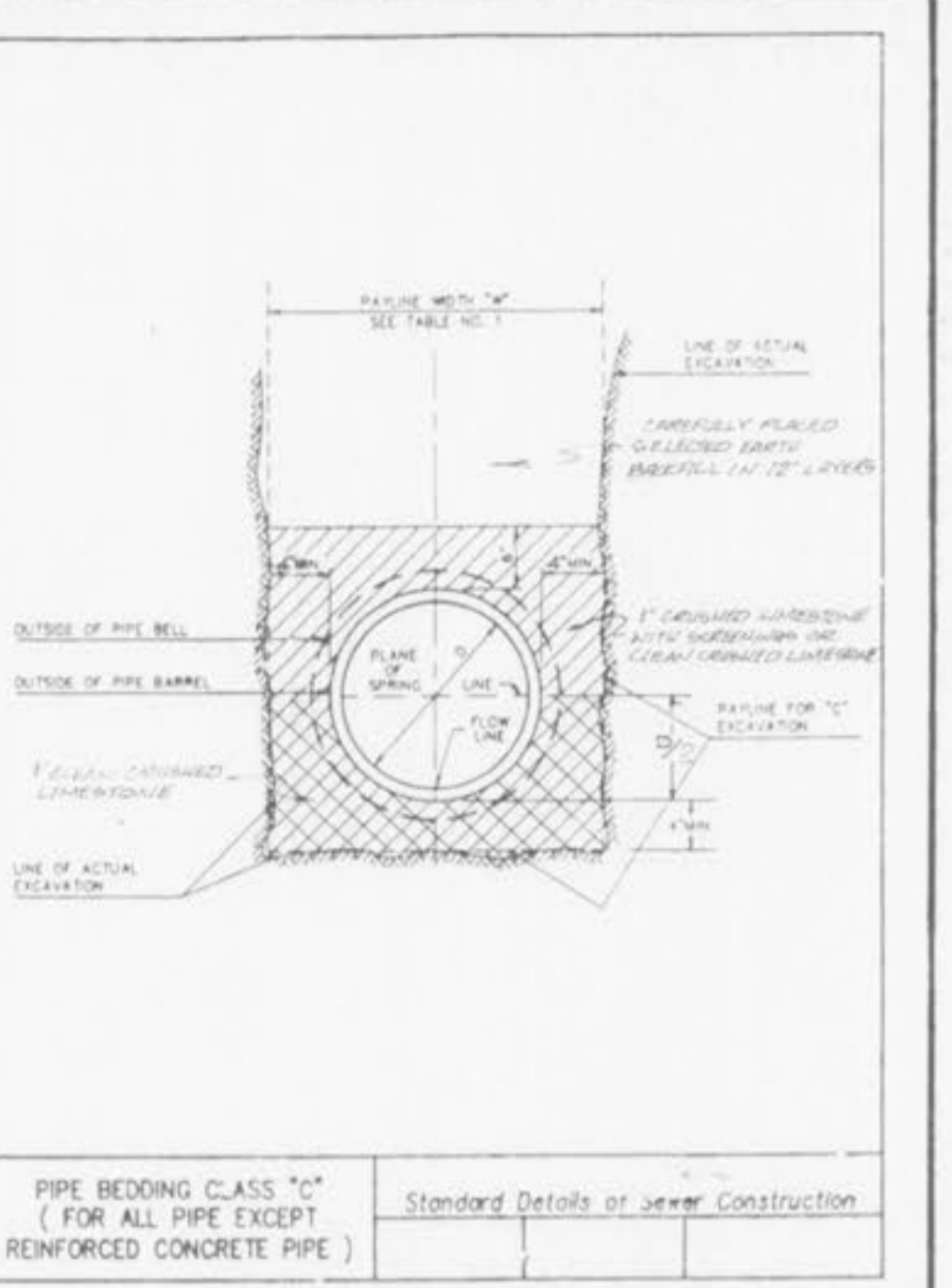
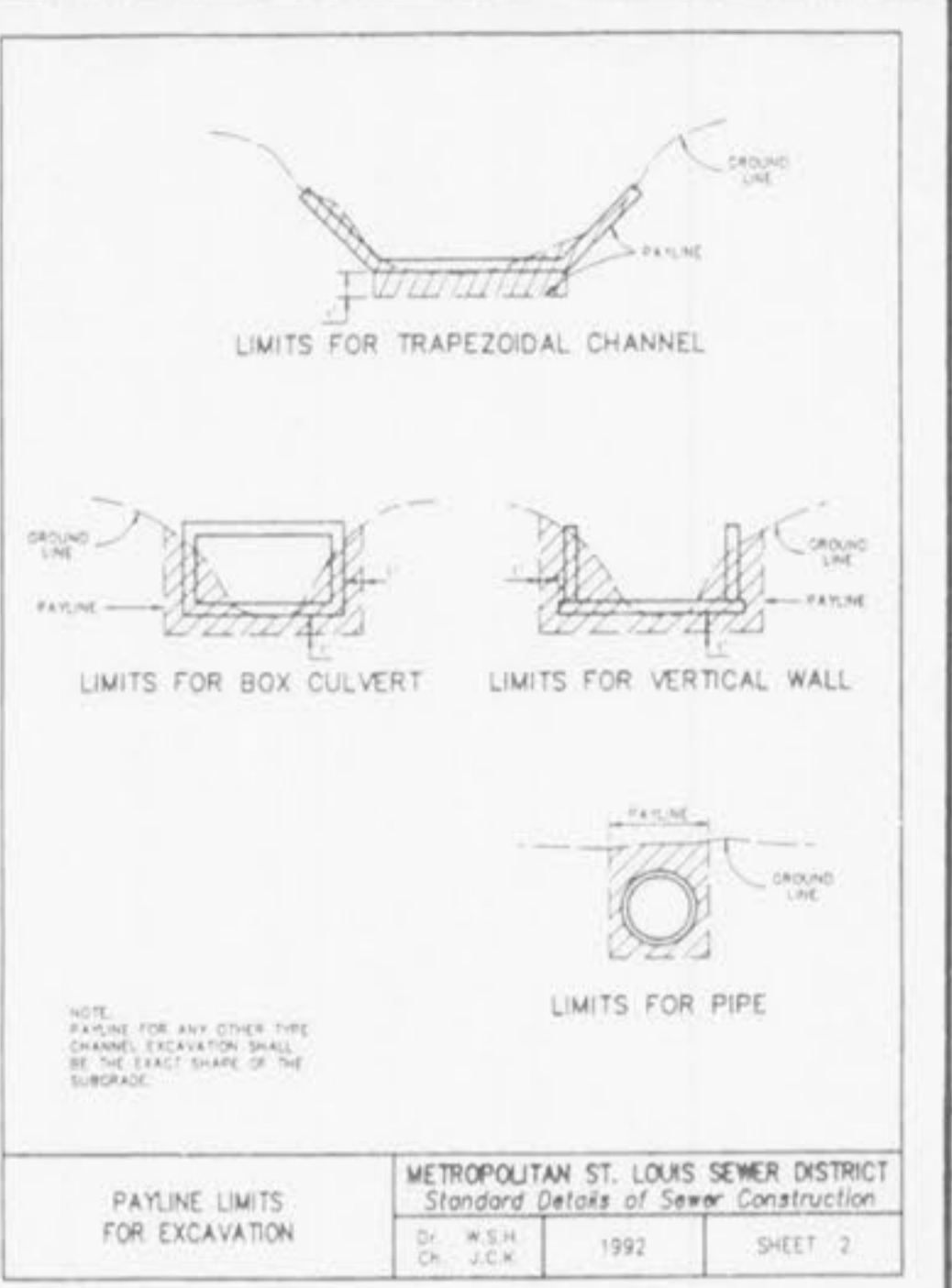


ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
INSIDE DIAMETER OF PIPE (INCHES)	"M" PAYLINE WIDTH OF TRENCH (INCHES)	"M" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES (CU. FT. PER FT.)	INSIDE DIMENSIONS OF PIPE (INCHES)	"M" PAYLINE WIDTH OF TRENCH (INCHES)	"M" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES (CU. FT. PER FT.)
4	30	2.50	3.28				
6	30	2.50	3.39				
8	30	2.50	3.67				
10	30	2.50	4.08				
12	30	2.50	4.25				
15	36	3.00	5.55				
18	36	3.00	5.77	14 x 22	47	3.42	5.84
21	36	3.00	6.81				
24	42	3.50	7.39	18 x 30	49	4.08	7.68
27	42	3.50	8.18	22 x 34	52	4.42	8.81
30	48	4.00	8.30	24 x 36	58	4.83	9.70
33	48	4.00	10.53	27 x 42	62	5.17	10.71
36	54	4.50	11.42	29 x 45	66	5.50	11.72
39	54	4.50	12.45	32 x 49	71	5.92	12.74
42	60	5.00	13.38	34 x 52	75	6.25	14.28
48	60	5.00	15.81	38 x 60	83	6.92	16.19
54	66	5.50	16.75	42 x 66	92	7.67	18.91
60	72	6.00	20.72	48 x 78	101	8.42	21.58
66	72	6.00	22.45	52 x 82	108	9.08	24.35
72	78	6.50	26.37	58 x 91	118	9.83	27.45
78	78	6.50	29.39	63 x 98	126	10.50	30.50
84	84	7.00	32.31	68 x 106	135	11.25	33.61
90	90	7.50	35.90	72 x 112	143	11.92	36.89
96	96	8.00	39.37	77 x 121	152	12.67	40.45
102	102	8.50	42.86	82 x 128	160	13.33	44.45
108	108	9.00	46.75	87 x 136	168	14.00	47.79
114	114	9.50	50.46	92 x 143	176	14.67	51.70
120	120	10.00	54.72	97 x 151	185	15.42	56.01
126	126	10.50	58.92	102 x 158	192	16.13	60.48
132	132	11.00	63.17	106 x 166	202	16.83	64.88
138	138	11.50	67.40	110 x 174	210	17.51	69.59

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

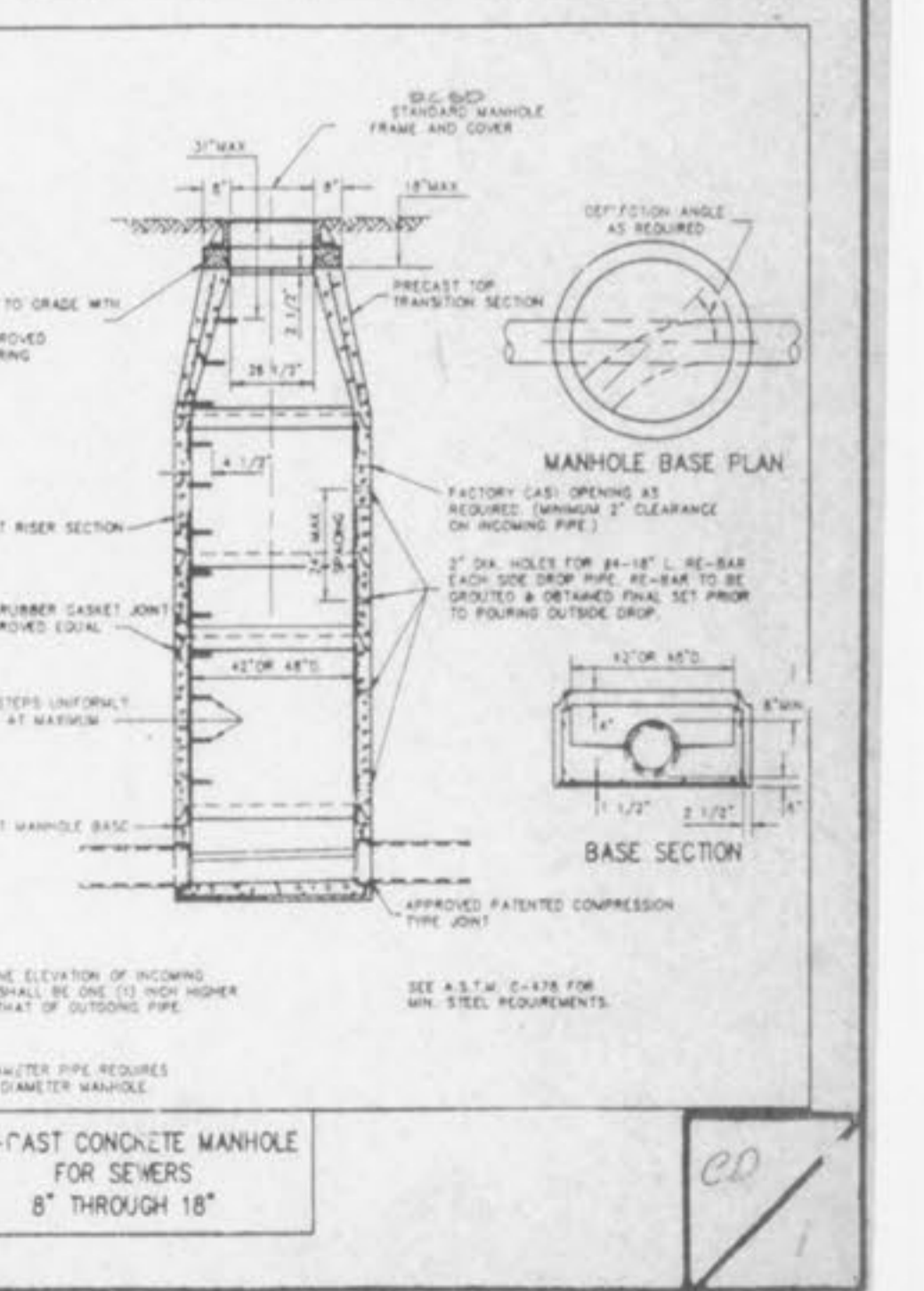
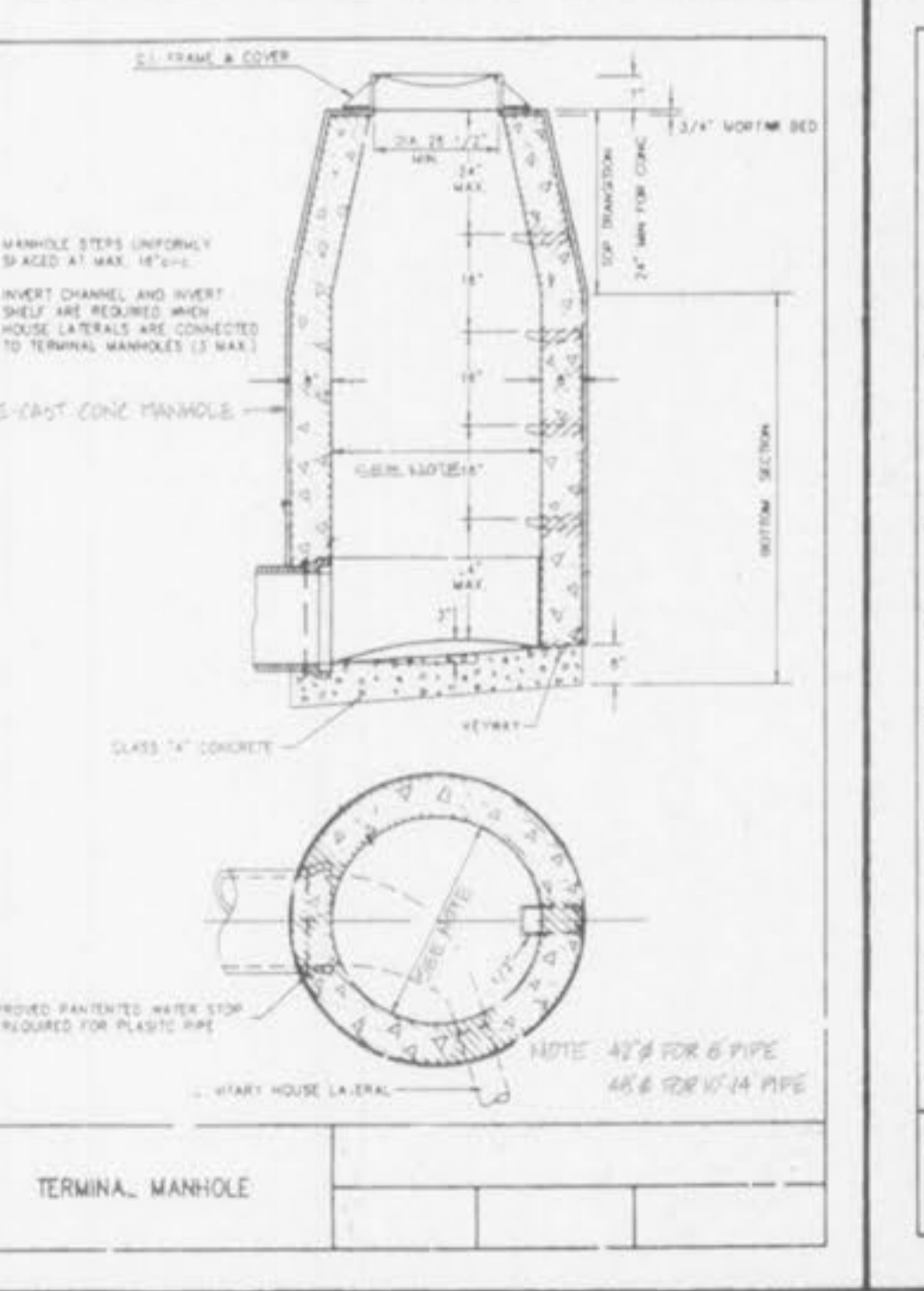
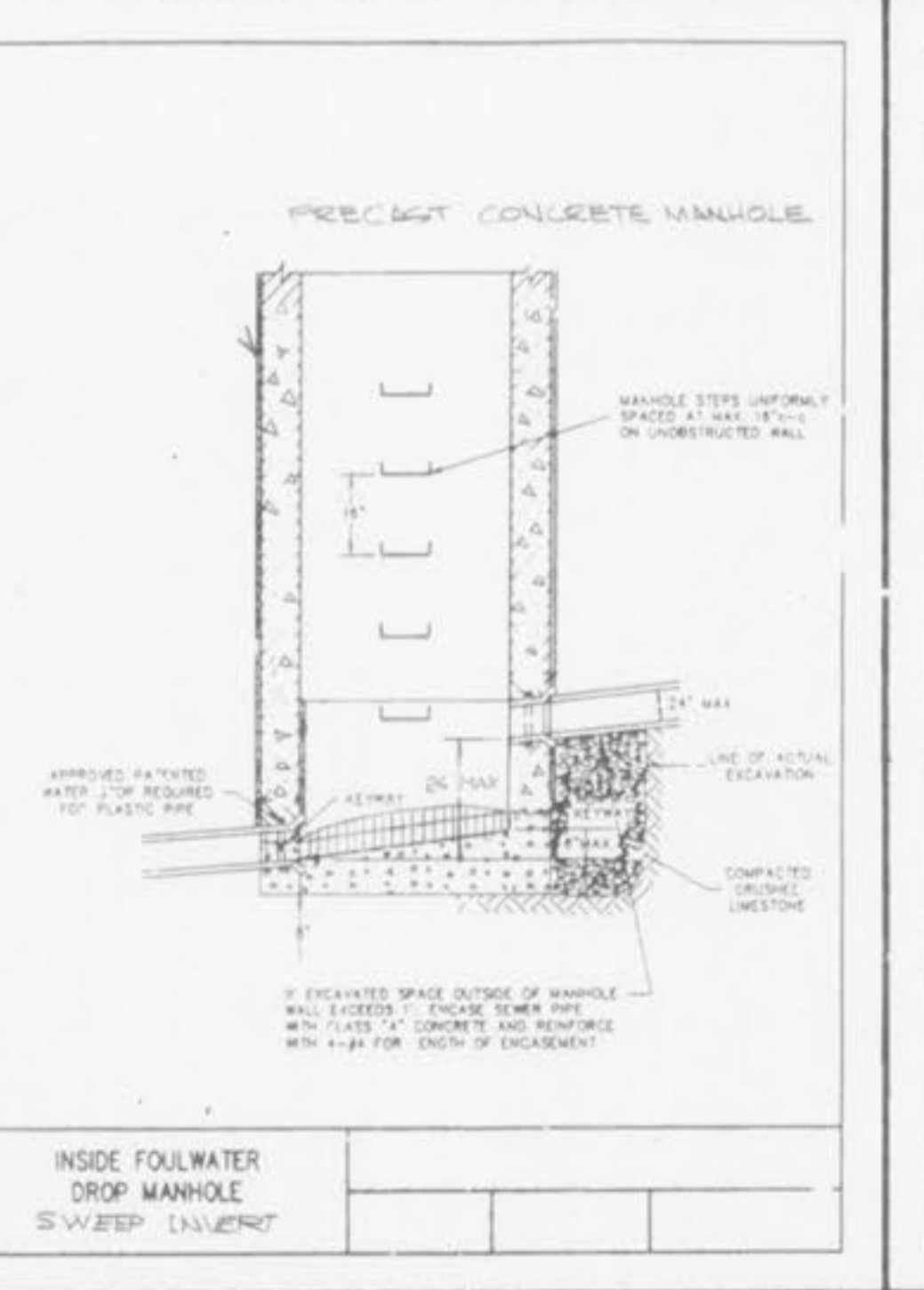
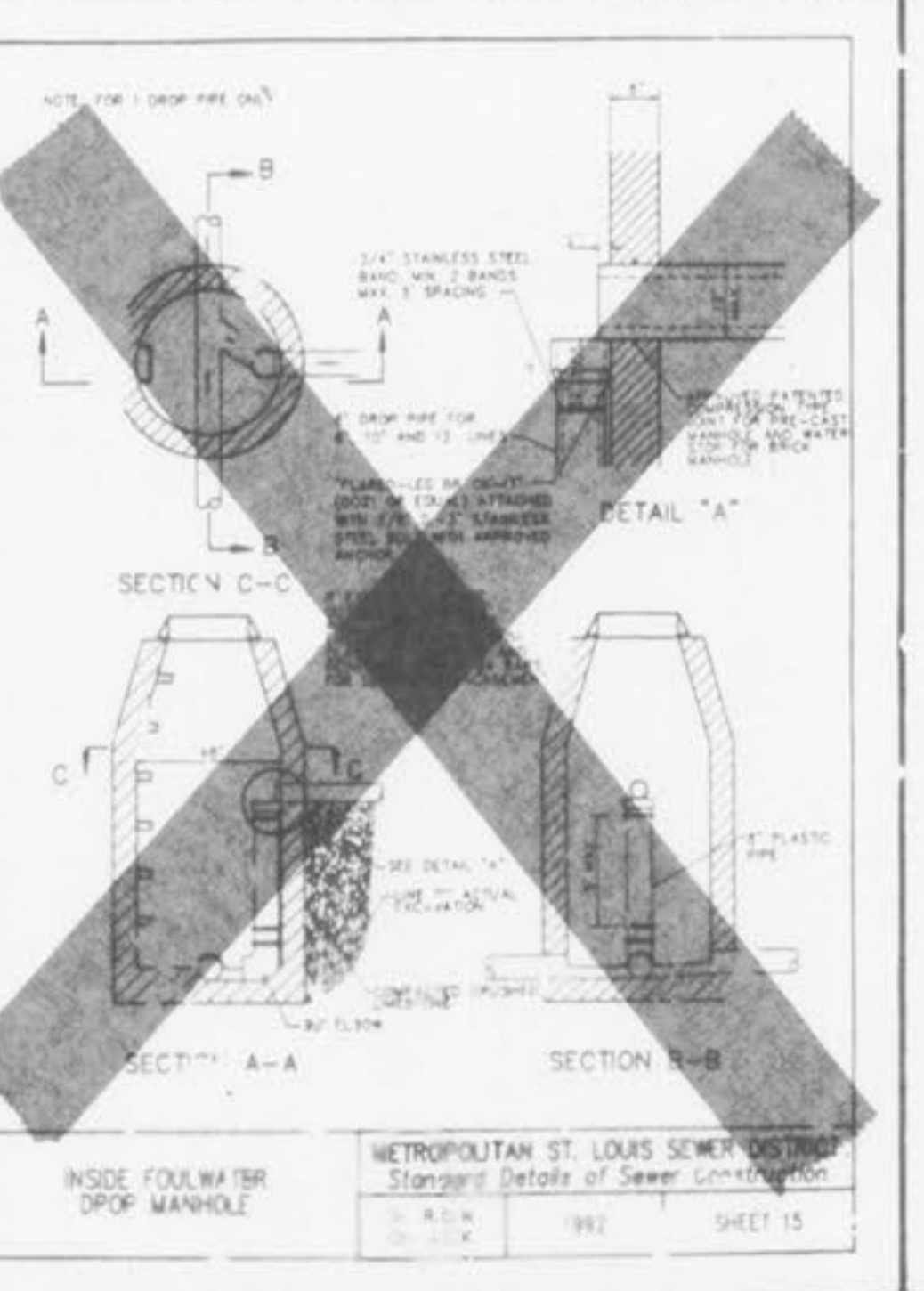
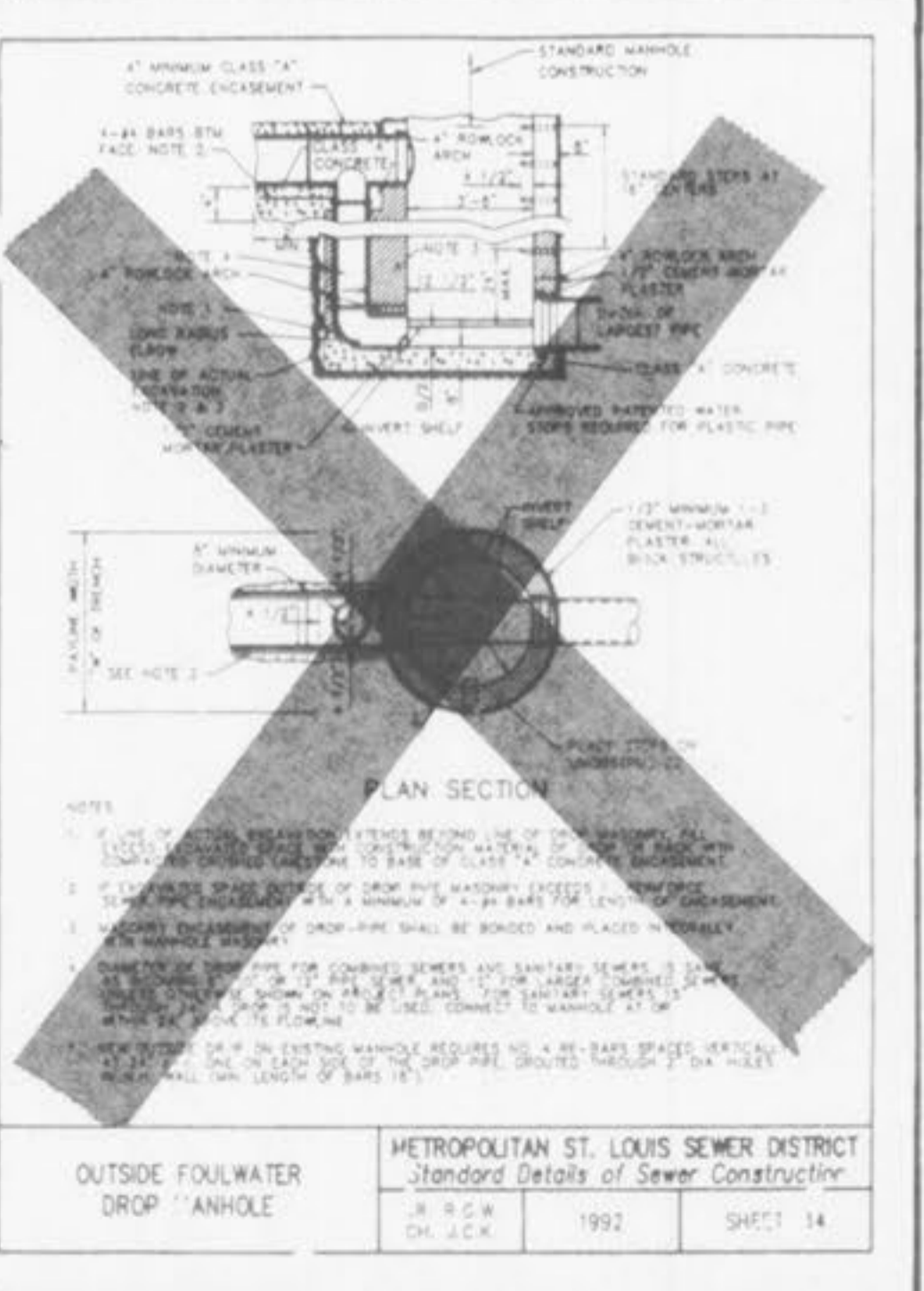
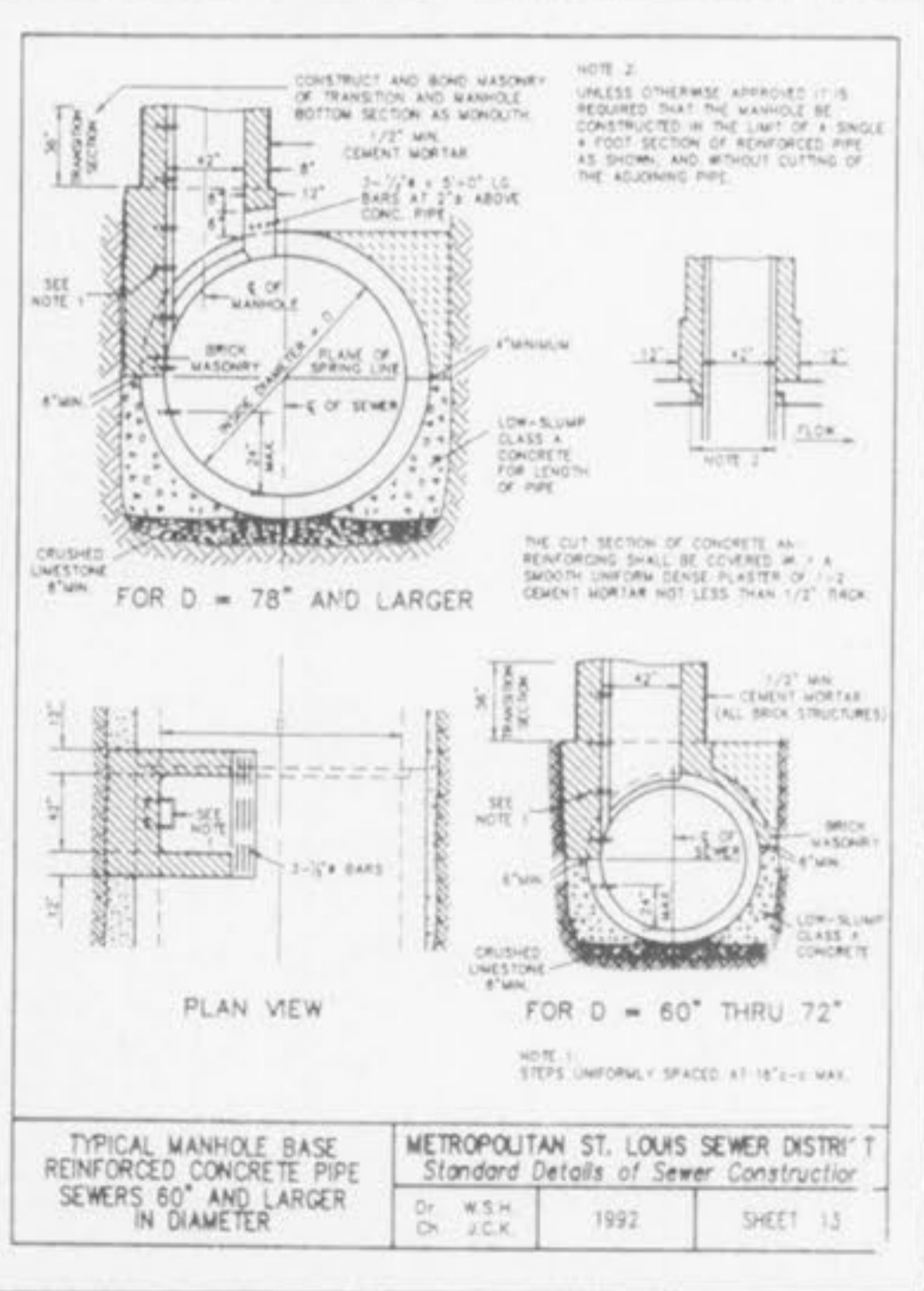
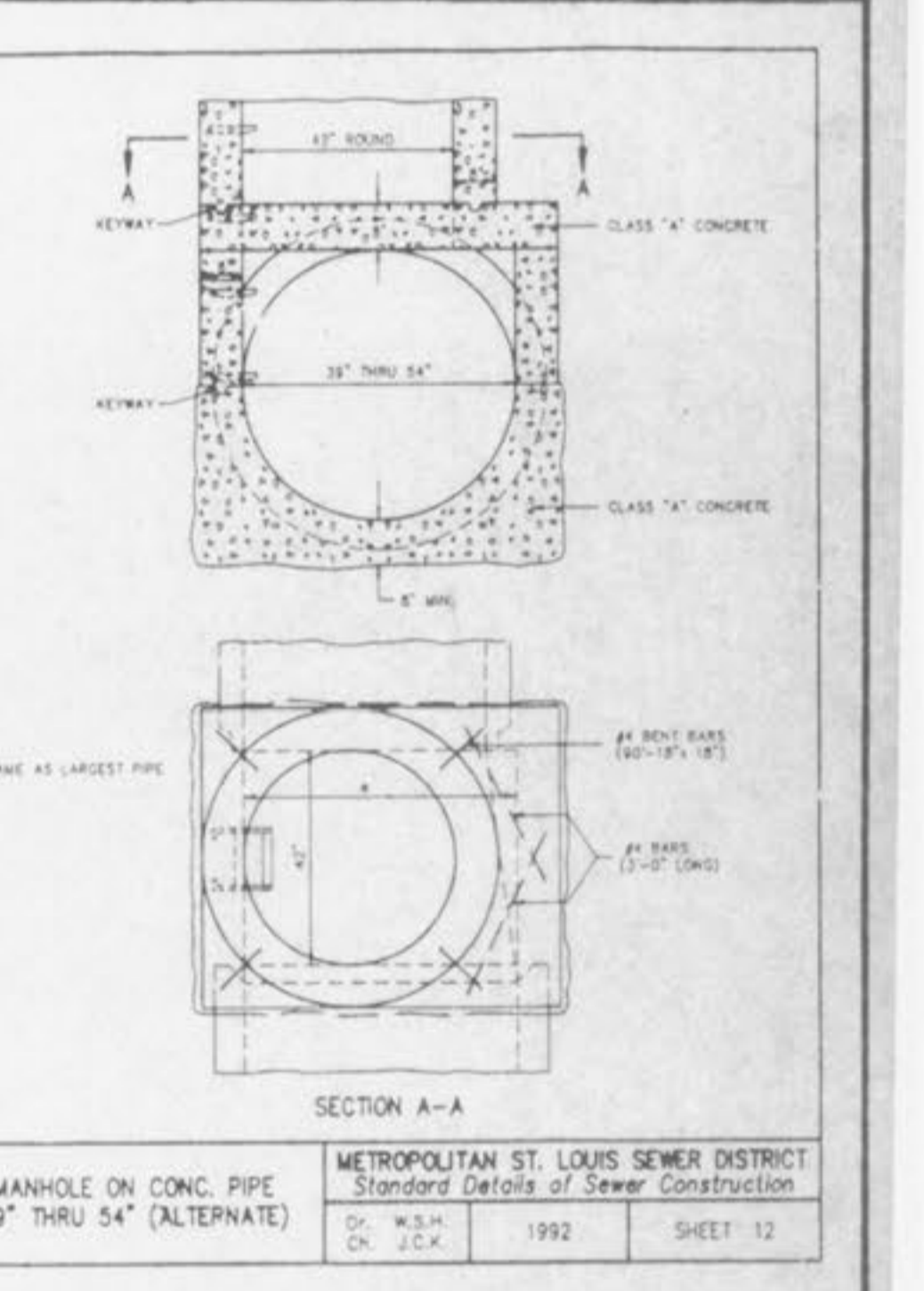
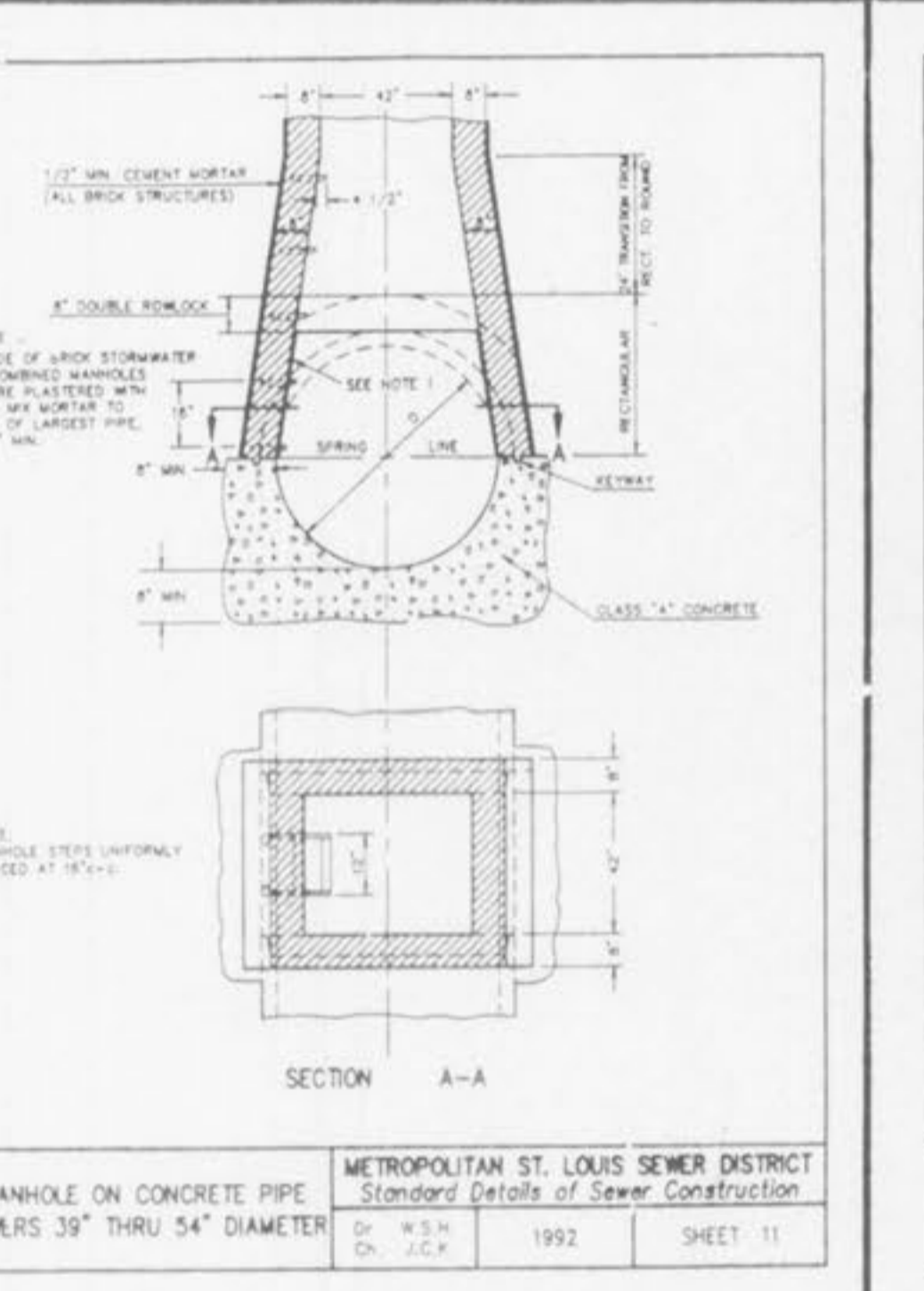
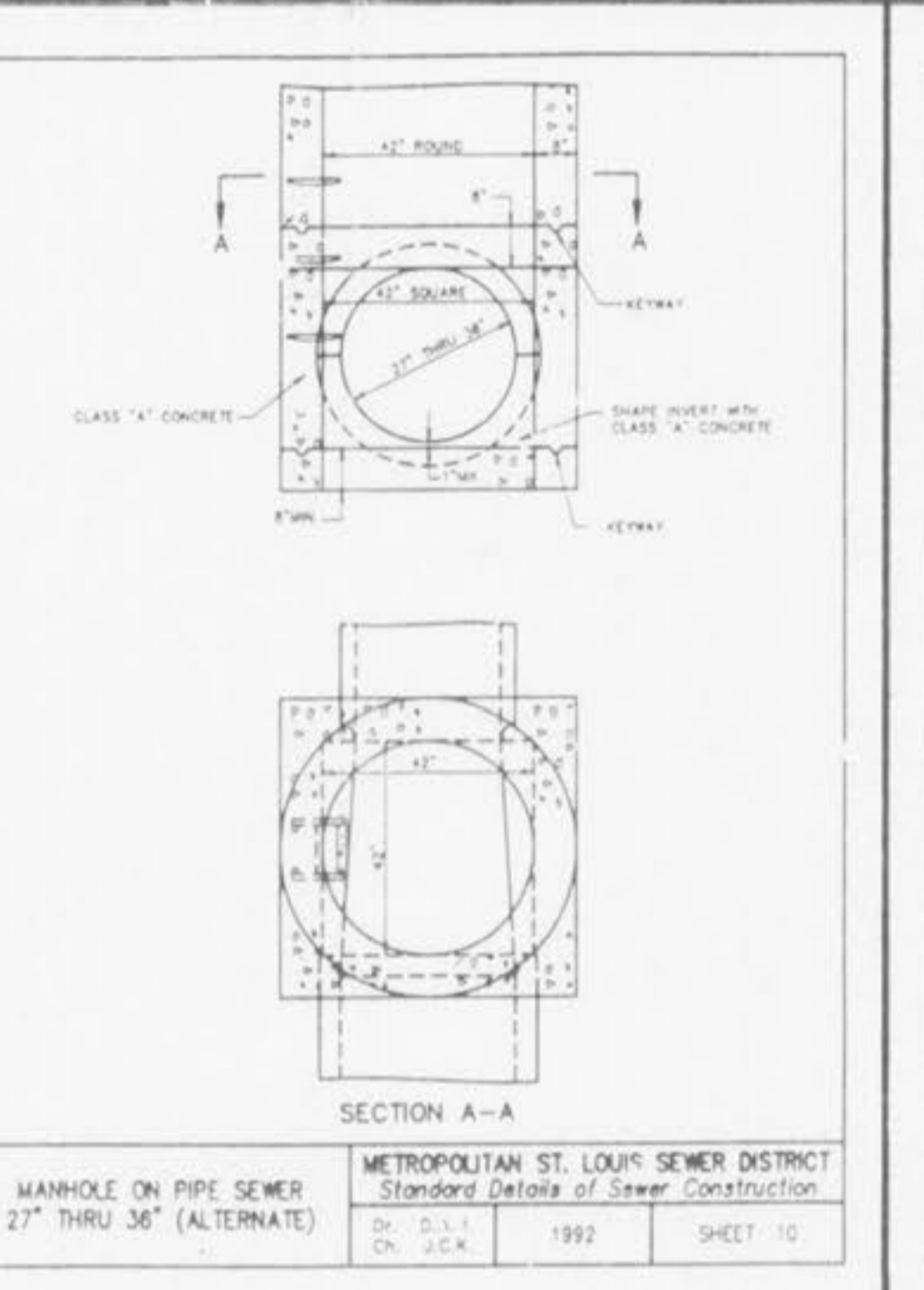
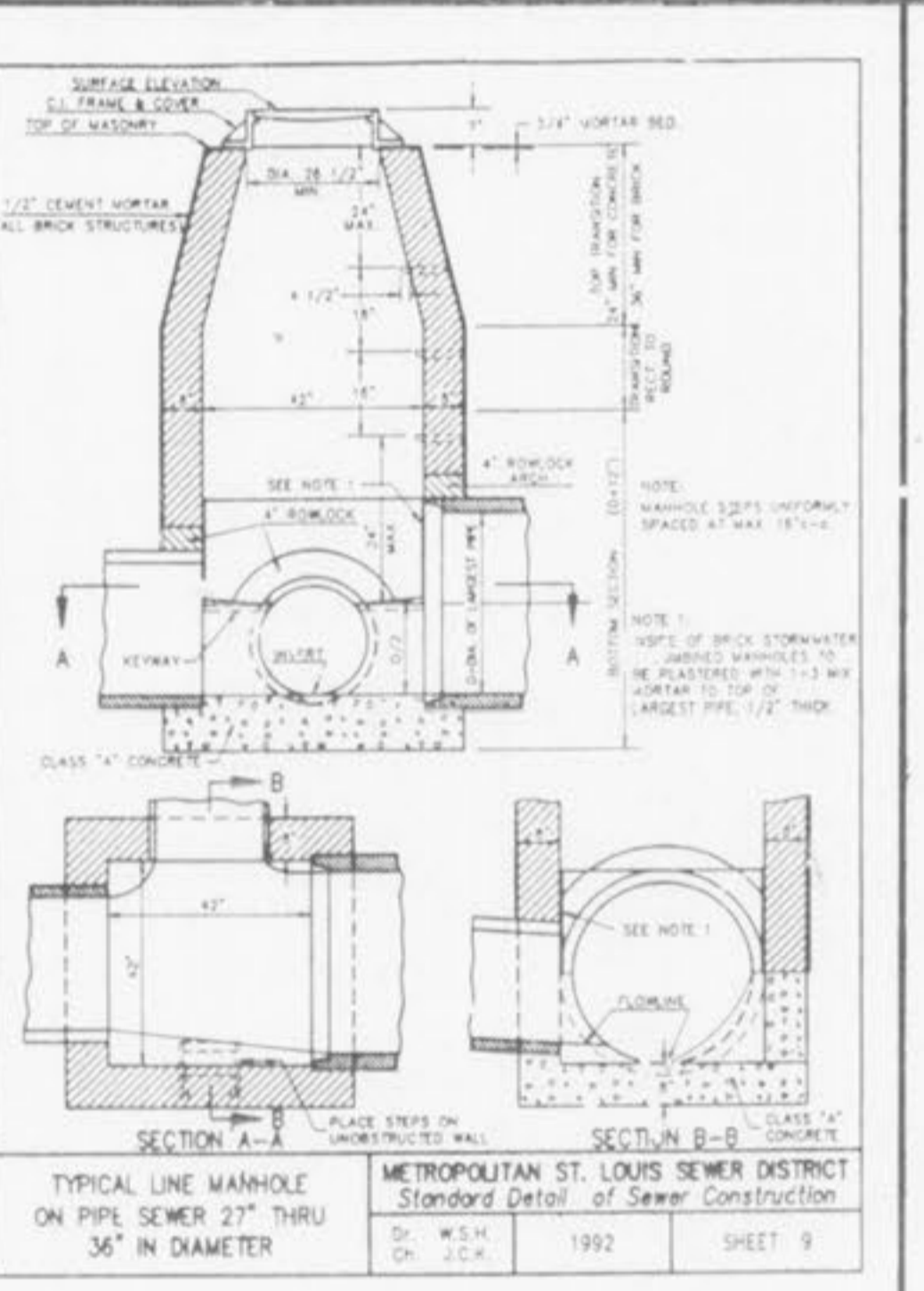
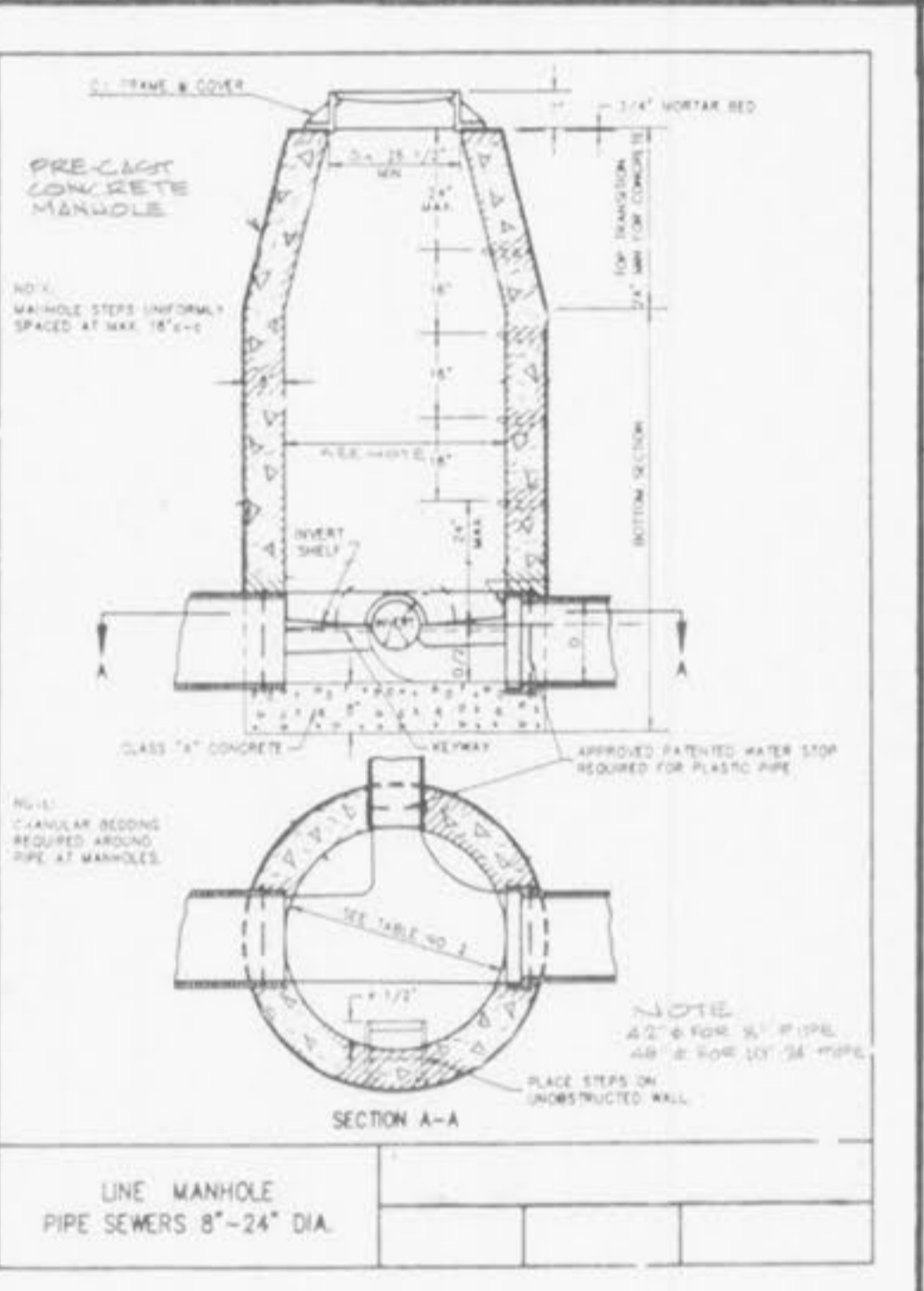
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. B.E.B. Ch. J.C.K. 1992 SHEET 1



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

TABLE NO. 2
STANDARD MANHOLE DIMENSIONS

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
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CONSTRUCTION DETAILS

CD