

**MAGNOLIA
STORM DETAILS 3**

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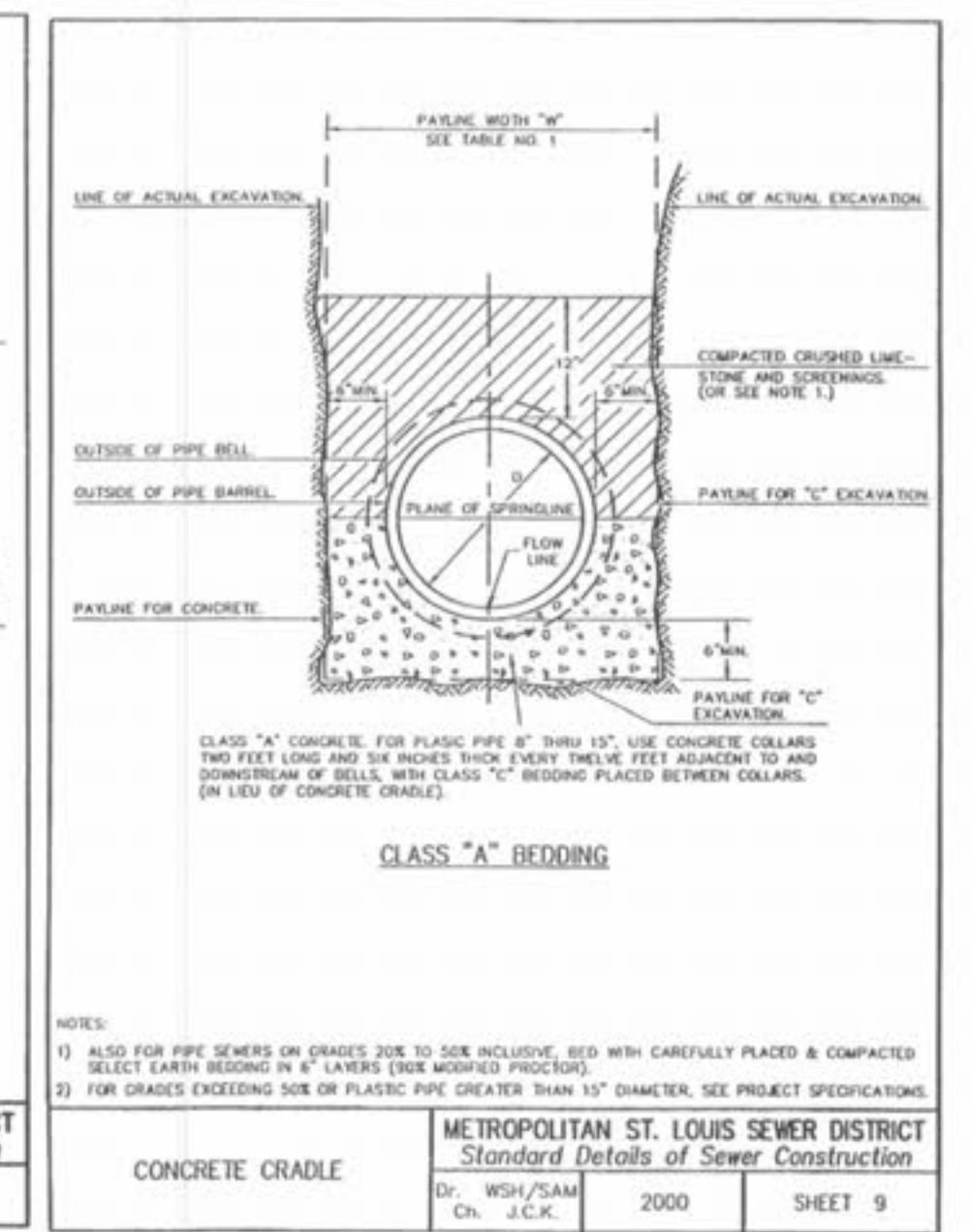


ORDER NO.
03-0498

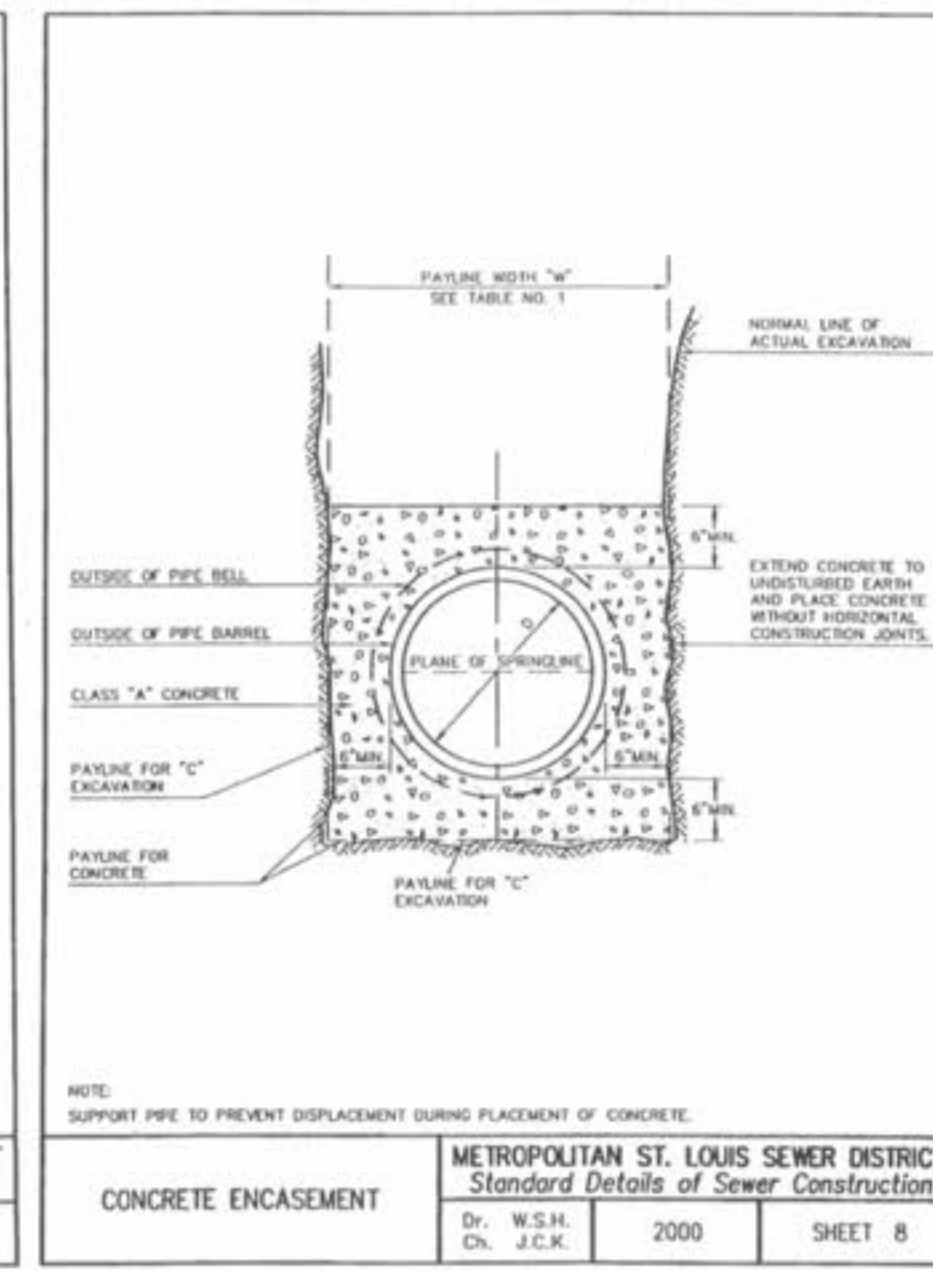
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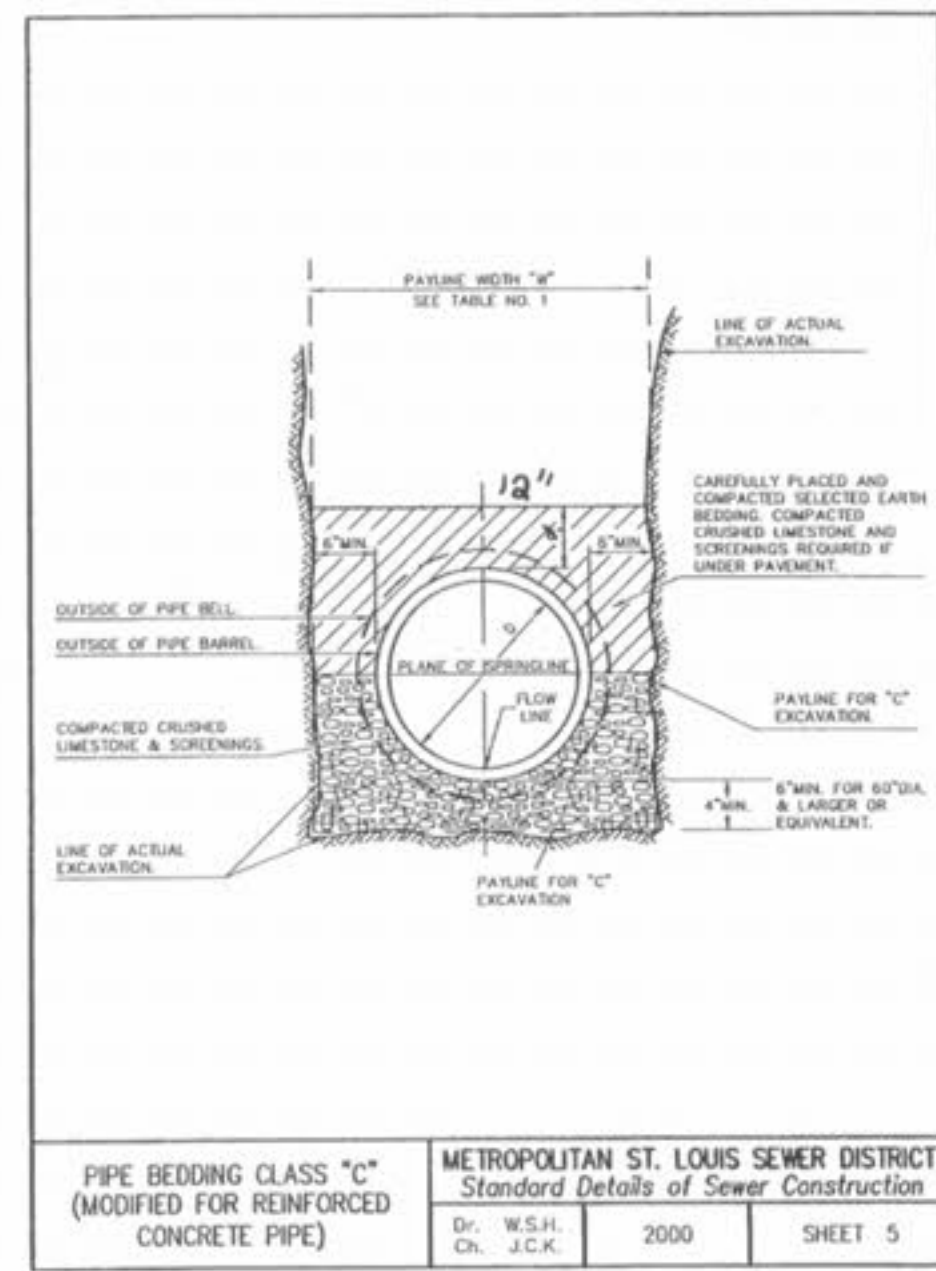
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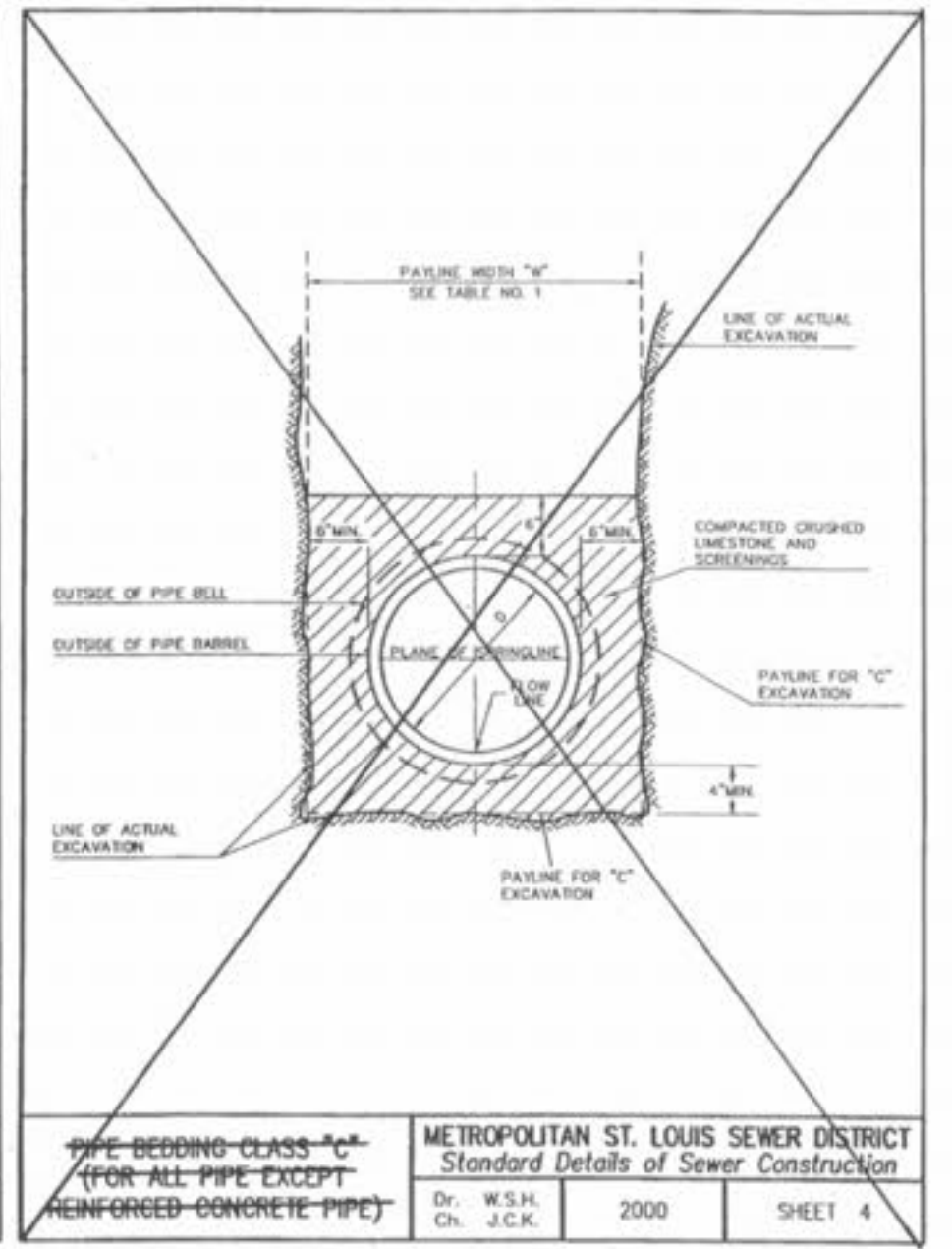
CONCRETE CRADLE
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. WSH/SAM
Ch. J.C.K. 2000 SHEET 9



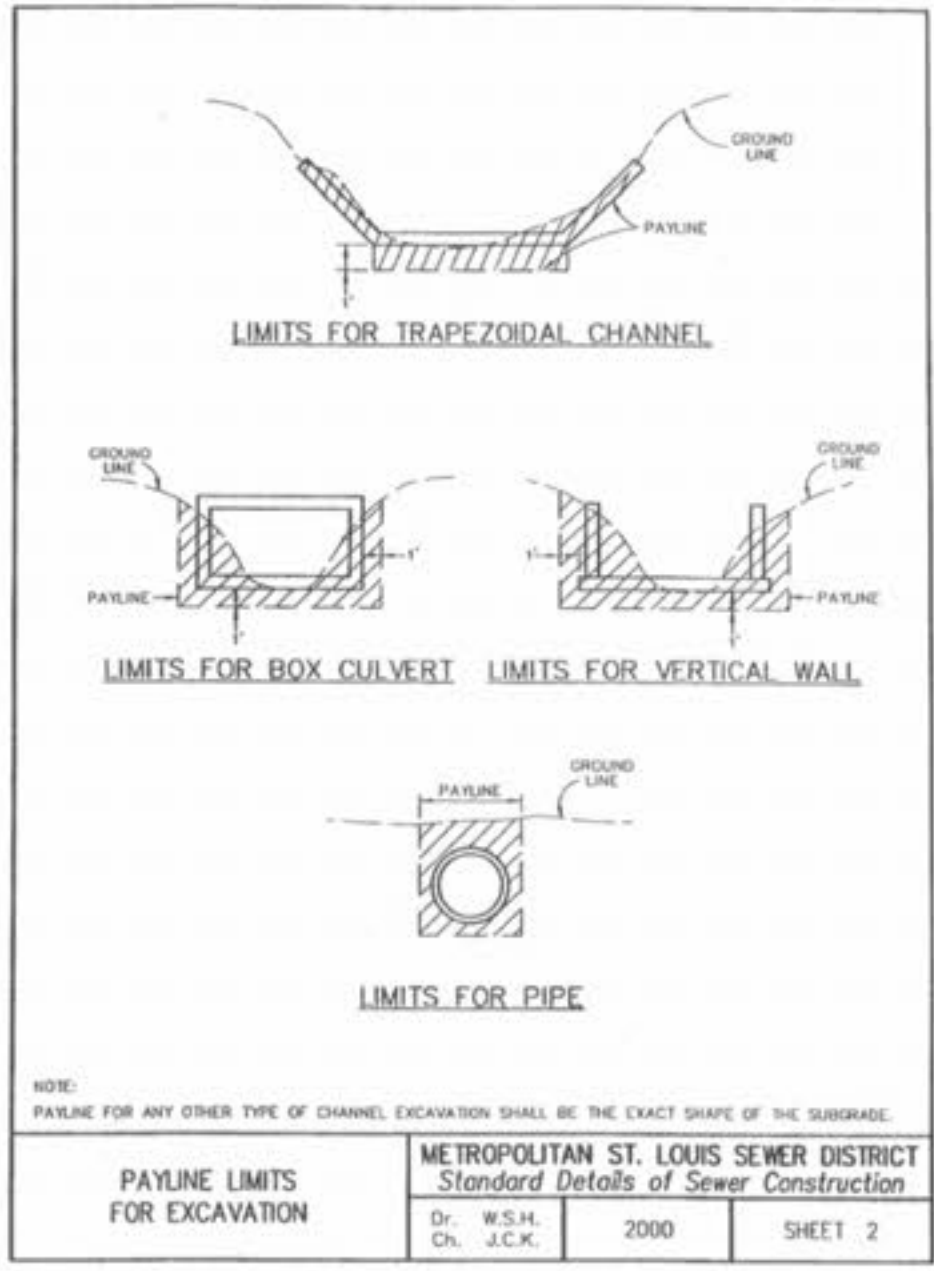
CONCRETE ENCASEMENT
METROPOLITAN ST. LOUIS SEWER DISTRICT
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PIPE BEDDING CLASS "C" (MODIFIED FOR REINFORCED CONCRETE PIPE)
METROPOLITAN ST. LOUIS SEWER DISTRICT
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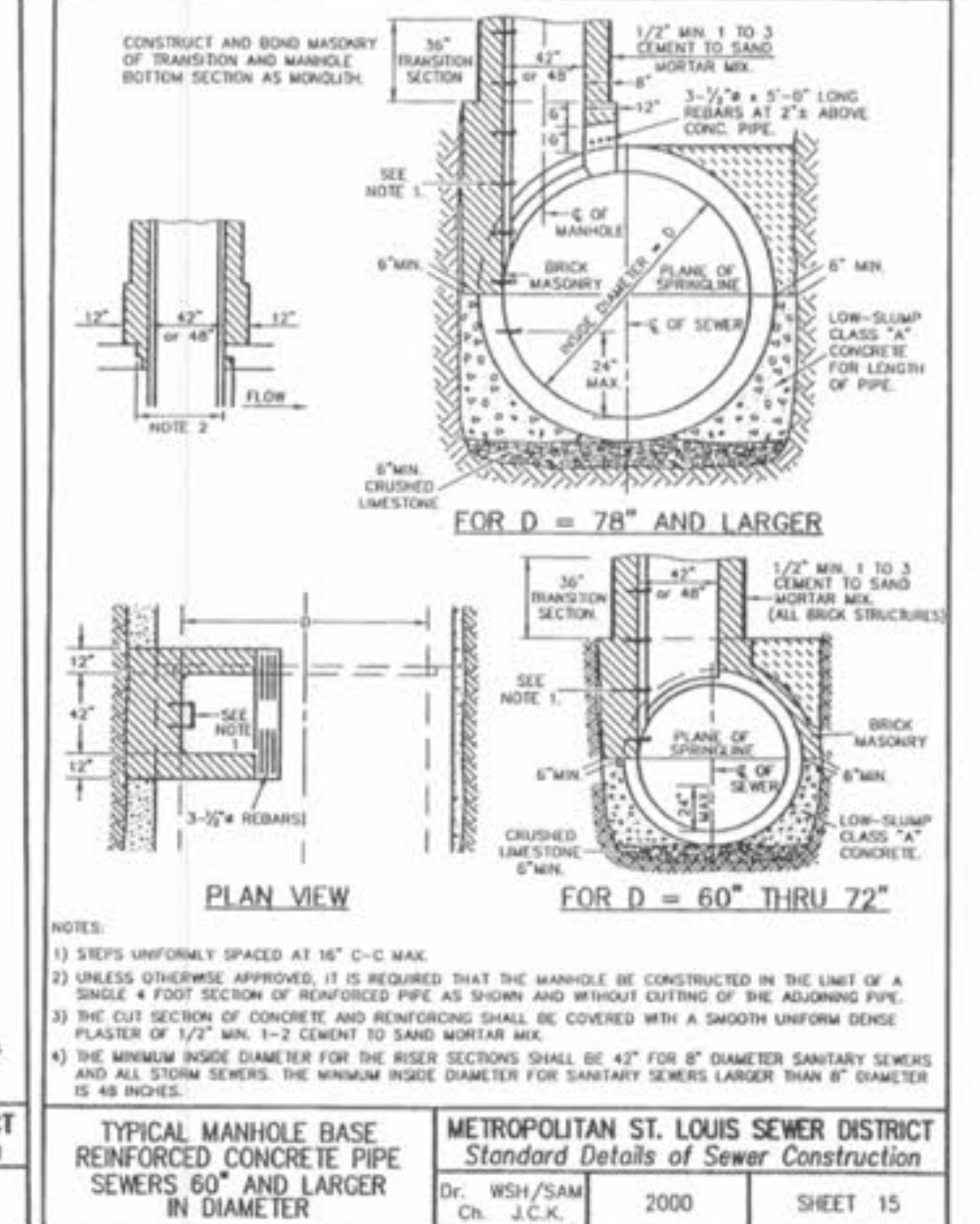
PIPE BEDDING CLASS "C" (FOR ALL PIPE EXCEPT REINFORCED CONCRETE PIPE)
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. WSH/SAM
Ch. J.C.K. 2000 SHEET 4



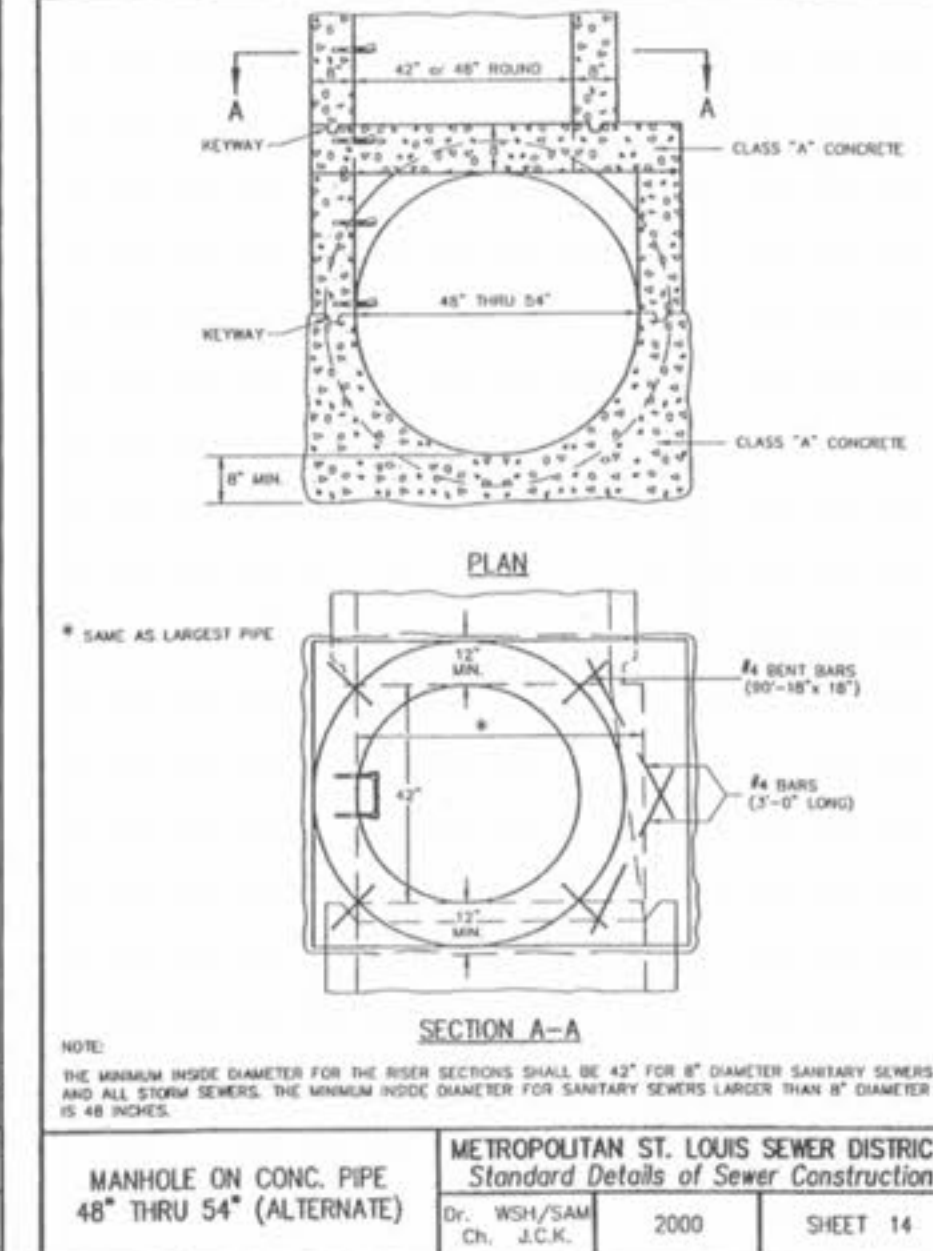
PAYLINE LIMITS FOR EXCAVATION
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. WSH/SAM
Ch. J.C.K. 2000 SHEET 2

ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
INSIDE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES (CU FT. PER FT.)	INSIDE DIMENSIONS OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES (CU FT. PER FT.)
4	30	2.50	3.28				
6	30	2.50	3.59				
8	30	2.50	4.08				
10	30	2.50	4.75				
12	30	2.50	5.55				
14	36	3.00	6.48	14 x 23	41	3.42	5.94
16	36	3.00	7.47				
18	36	3.00	8.52				
20	36	3.00	9.63				
22	42	3.50	10.79	19 x 30	49	4.08	7.68
24	42	3.50	12.00				
26	42	3.50	13.27				
28	42	3.50	14.60				
30	48	4.08	16.08	24 x 36	58	4.83	9.70
32	48	4.08	17.62				
34	48	4.08	19.22				
36	48	4.08	20.88				
38	54	4.67	22.59	27 x 42	62	5.17	10.71
40	54	4.67	24.36				
42	54	4.67	26.19				
44	54	4.67	28.07				
46	54	4.67	29.99				
48	60	5.25	31.94	30 x 45	66	5.50	11.72
50	60	5.25	33.93				
52	60	5.25	35.96				
54	60	5.25	38.02				
56	66	5.83	40.10	36 x 50	70	5.92	12.74
58	66	5.83	42.21				
60	66	5.83	44.35				
62	66	5.83	46.52				
64	72	6.42	48.70	42 x 54	74	6.25	13.77
66	72	6.42	50.91				
68	72	6.42	53.15				
70	72	6.42	55.42				
72	78	7.00	57.70	48 x 60	78	6.58	14.81
74	78	7.00	60.01				
76	78	7.00	62.35				
78	78	7.00	64.72				
80	84	7.58	67.10	54 x 66	82	6.90	15.91
82	84	7.58	69.51				
84	84	7.58	71.95				
86	84	7.58	74.41				
88	90	8.17	76.88	60 x 72	86	7.22	17.01
90	90	8.17	79.38				
92	90	8.17	81.90				
94	90	8.17	84.44				
96	96	8.75	86.99	66 x 78	90	7.54	18.11
98	96	8.75	89.56				
100	96	8.75	92.15				
102	96	8.75	94.76				
104	102	9.33	97.38	72 x 84	94	7.86	19.21
106	102	9.33	100.01				
108	102	9.33	102.66				
110	102	9.33	105.32				
112	108	9.92	107.99	78 x 90	98	8.17	20.31
114	108	9.92	110.68				
116	108	9.92	113.39				
118	108	9.92	116.11				
120	108	9.92	118.84				
122	114	10.50	121.48	84 x 96	102	8.48	21.41
124	114	10.50	124.14				
126	114	10.50	126.81				
128	114	10.50	129.49				
130	120	11.08	132.08	90 x 102	106	8.79	22.51
132	120	11.08	134.78				
134	120	11.08	137.49				
136	120	11.08	140.20				
138	126	11.67	142.71	96 x 108	110	9.09	23.61
140	126	11.67	145.43				
142	126	11.67	148.15				
144	126	11.67	150.87				

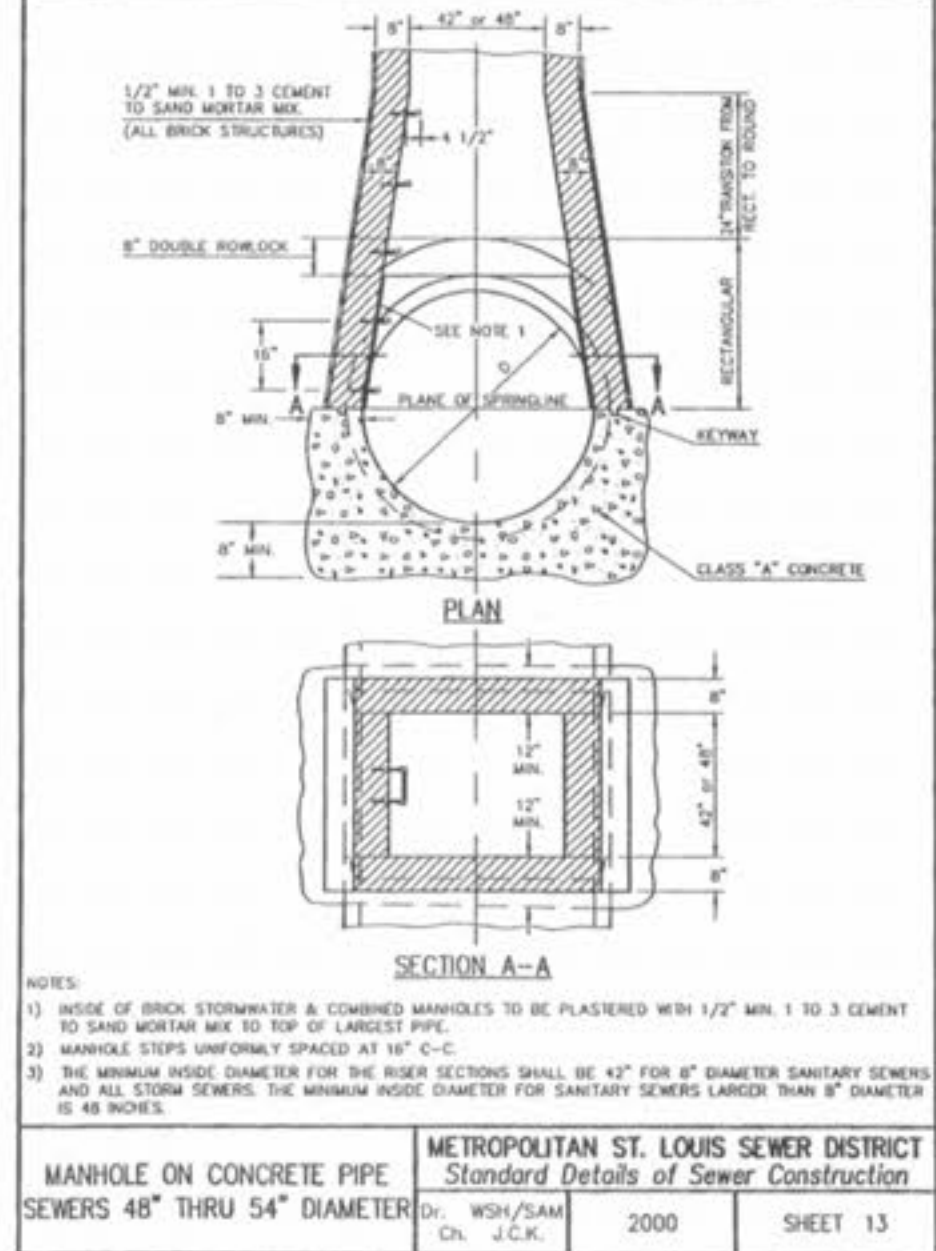
PAYLINE WIDTHS OF TRENCH AND PAY-VOLUMES OF CONCRETE
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. B.E.B.
Ch. J.C.K. 2000 SHEET 1



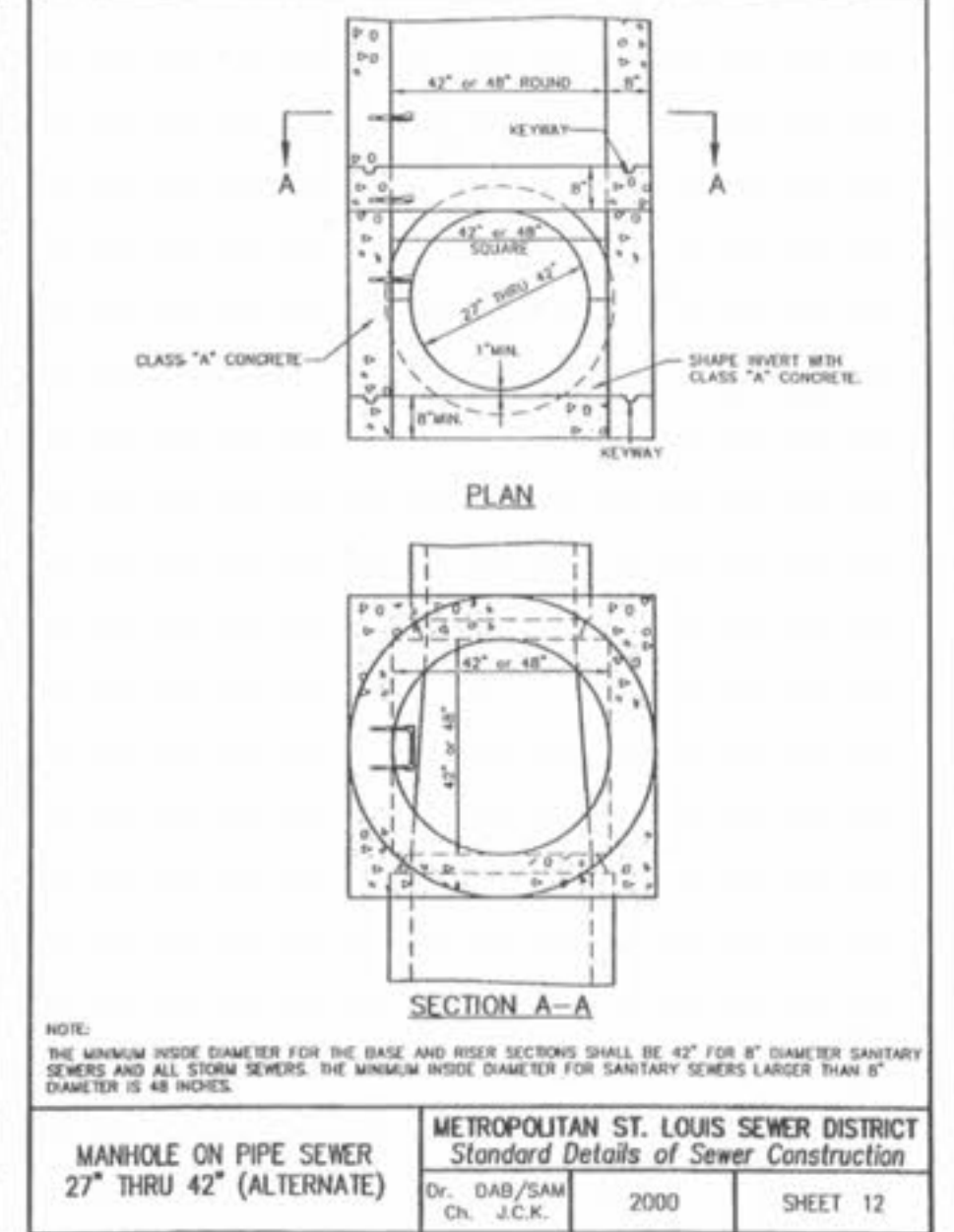
MANHOLE ON CONC. PIPE 48" THRU 54" (ALTERNATE)
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. WSH/SAM
Ch. J.C.K. 2000 SHEET 14



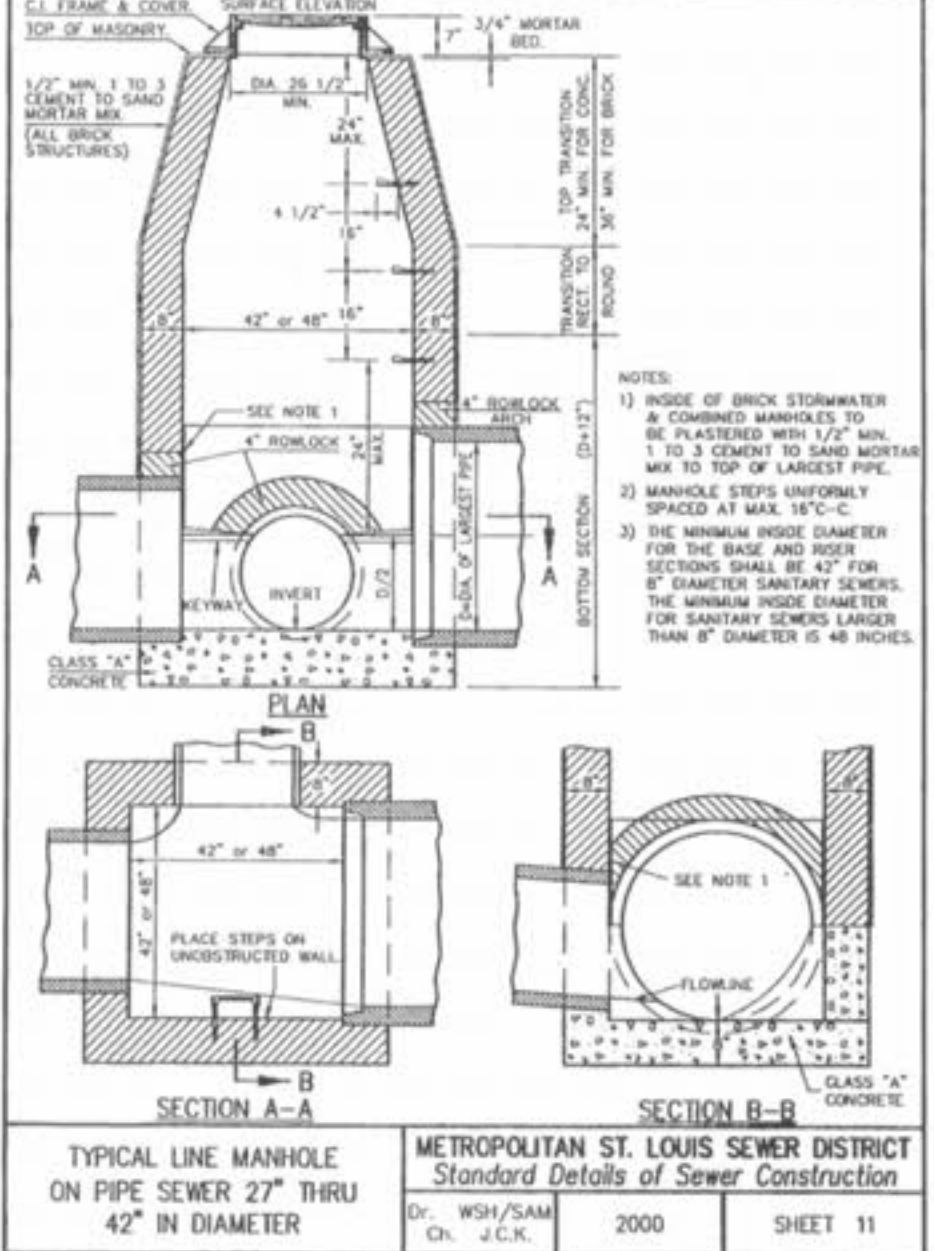
MANHOLE ON CONCRETE PIPE 48" THRU 54" DIAMETER
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. WSH/SAM
Ch. J.C.K. 2000 SHEET 13



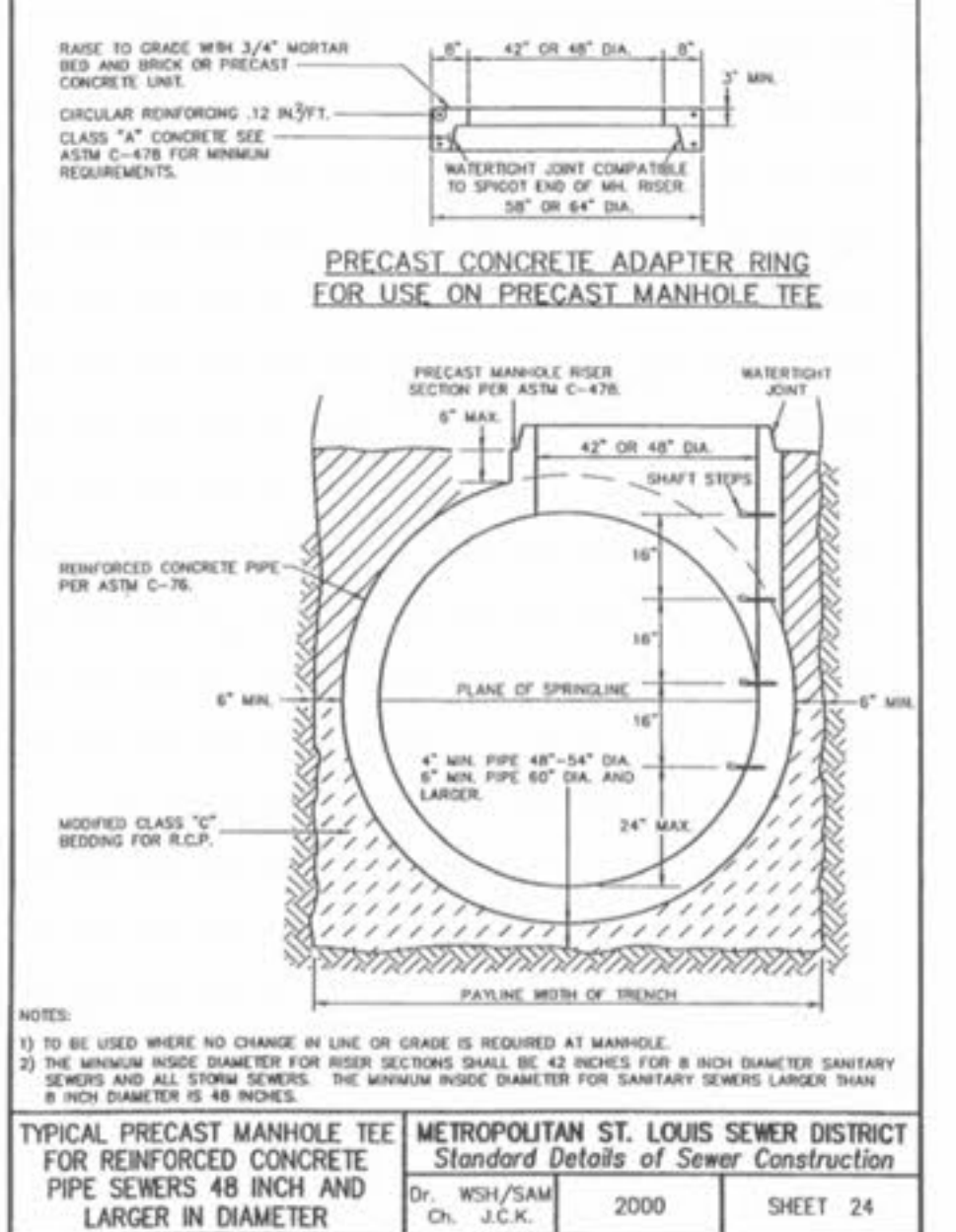
MANHOLE ON PIPE SEWER 27" THRU 42" (ALTERNATE)
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
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TYPICAL LINE MANHOLE ON PIPE SEWER 27" THRU 42" IN DIAMETER
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
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LINE MANHOLE PIPE SEWERS 8"-24" DIA.
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
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TYPICAL PRECAST MANHOLE TEE FOR REINFORCED CONCRETE PIPE SEWERS 48 INCH AND LARGER IN DIAMETER
METROPOLITAN ST. LOUIS SEWER DISTRICT
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