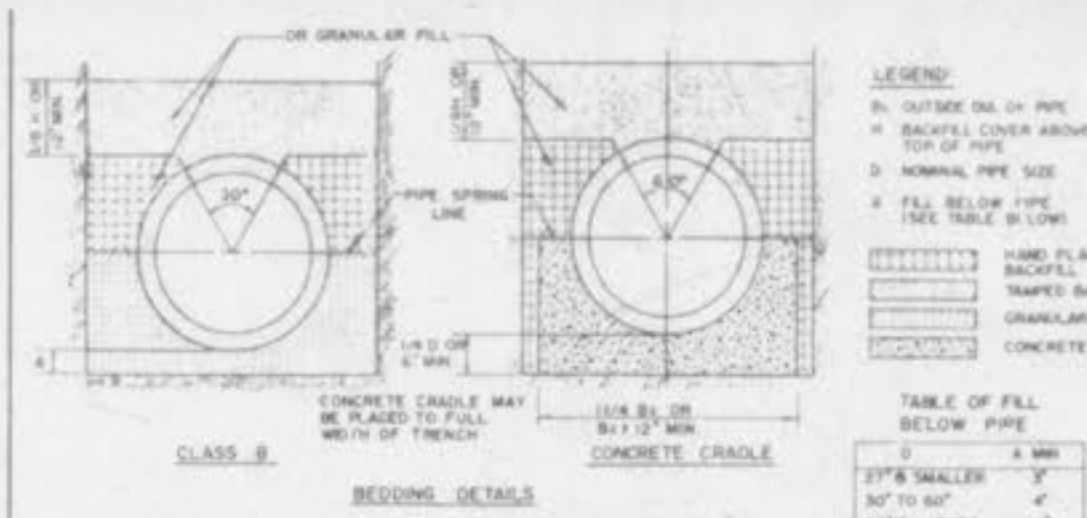
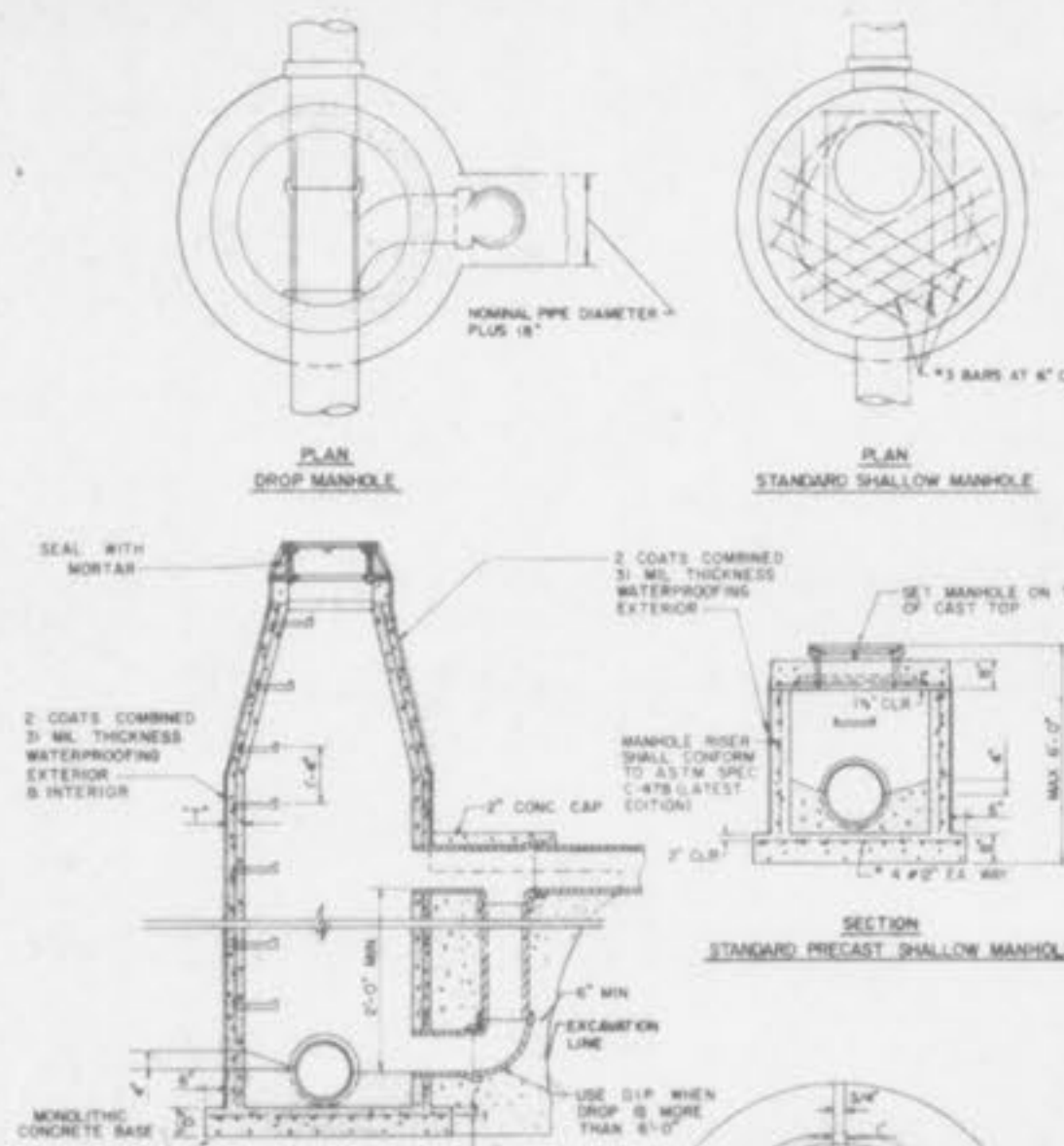


WALL THICKNESS	MANHOLE BASE THICKNESS
DIAMETER	DEPTH (FEET)
4"	0-20
6"	20-30
8"	30-40



ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
Inside Diameter of Pipe (Inches)	Outside Diameter of Pipe (Inches)	Pay Volume of Trench (Cubic Feet)	Pay Volume of Concrete Encasement (Cubic Feet)	Inside Dimension (Inches)	Pay Volume of Trench (Cubic Feet)	Pay Volume of Concrete Encasement (Cubic Feet)	Pay Volume of Concrete Encasement (Cubic Feet)
4	28	2.33	3.20				
6	28	2.33	3.46				
8	28	2.33	3.70				
10	28	2.33	3.96				
12	28	2.33	4.22				
15	32	2.67	4.89				
18	32	2.67	5.61				
21	32	2.67	6.31				
24	32	2.67	7.08				
27	32	2.67	7.88				
30	32	2.67	8.69				
36	40	3.33	10.67				
42	40	3.33	12.00				
48	40	3.33	13.33				
54	40	3.33	14.67				
60	40	3.33	16.00				
66	40	3.33	17.33				
72	40	3.33	18.67				
78	40	3.33	20.00				
84	40	3.33	21.33				
90	40	3.33	22.67				
96	40	3.33	24.00				
102	40	3.33	25.33				
108	40	3.33	26.67				
114	40	3.33	28.00				
120	40	3.33	29.33				
126	40	3.33	30.67				
132	40	3.33	32.00				
138	40	3.33	33.33				
144	40	3.33	34.67				

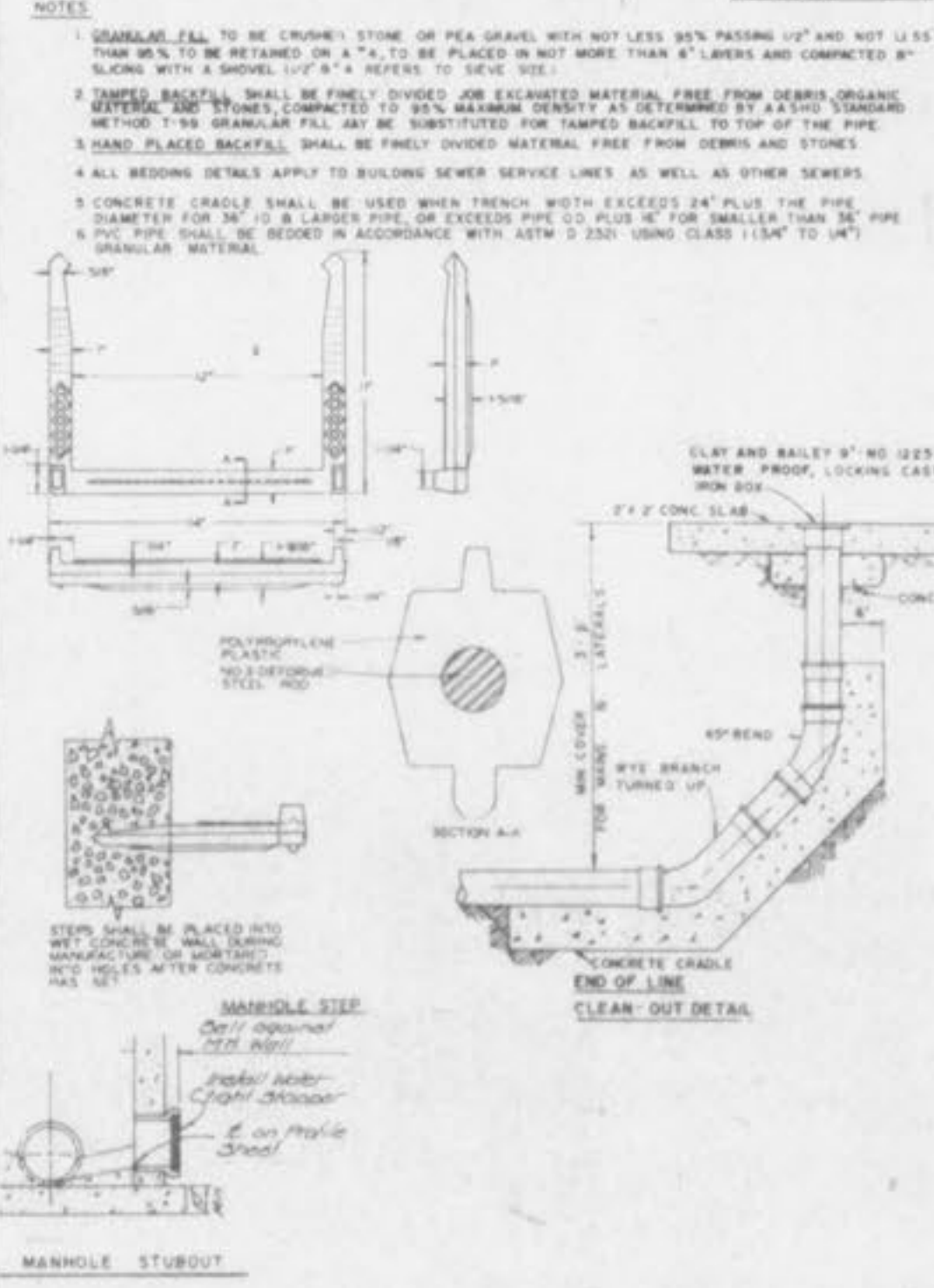
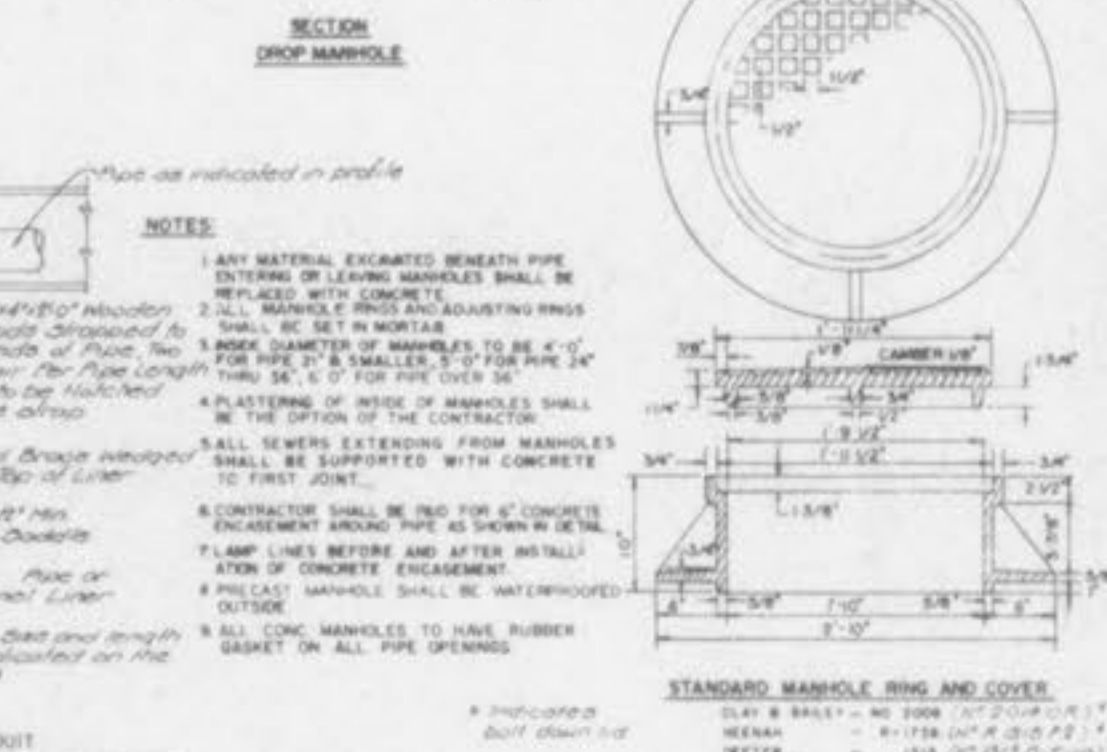
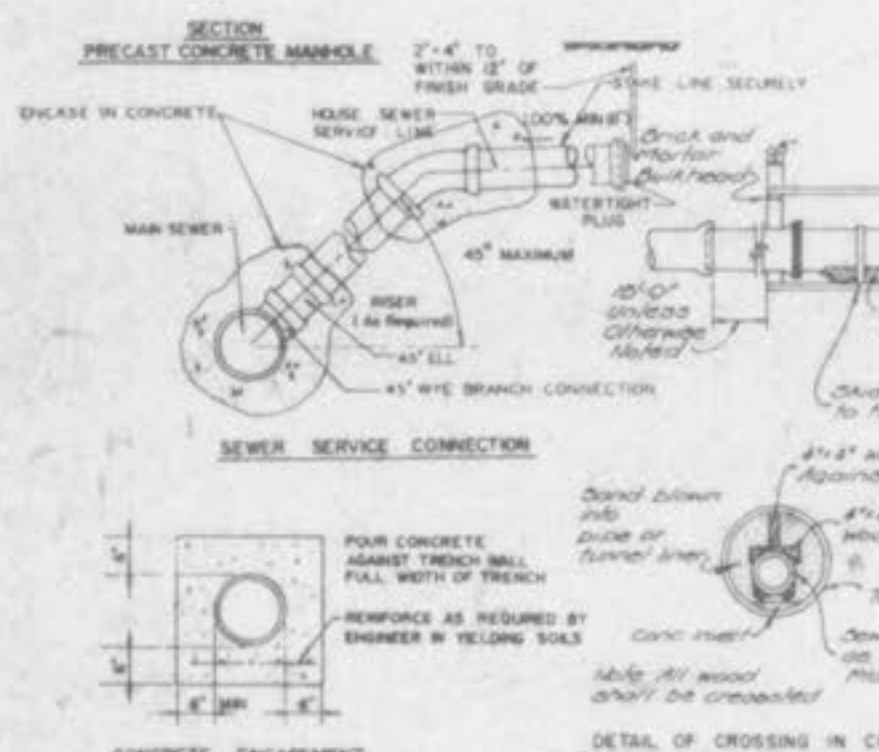
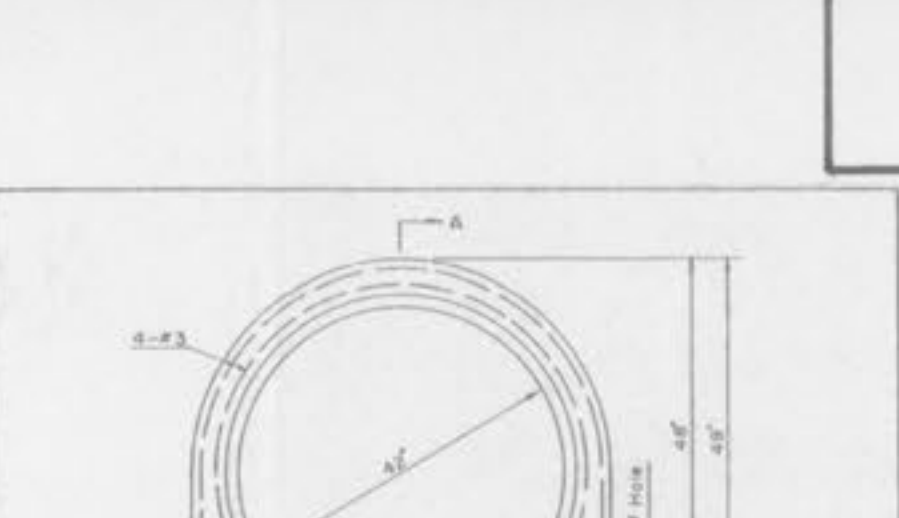


TABLE NO. 1
PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE

TABLE NO. 2
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. R.N. Ch. J.C.K. April 1979 Sheet 1

