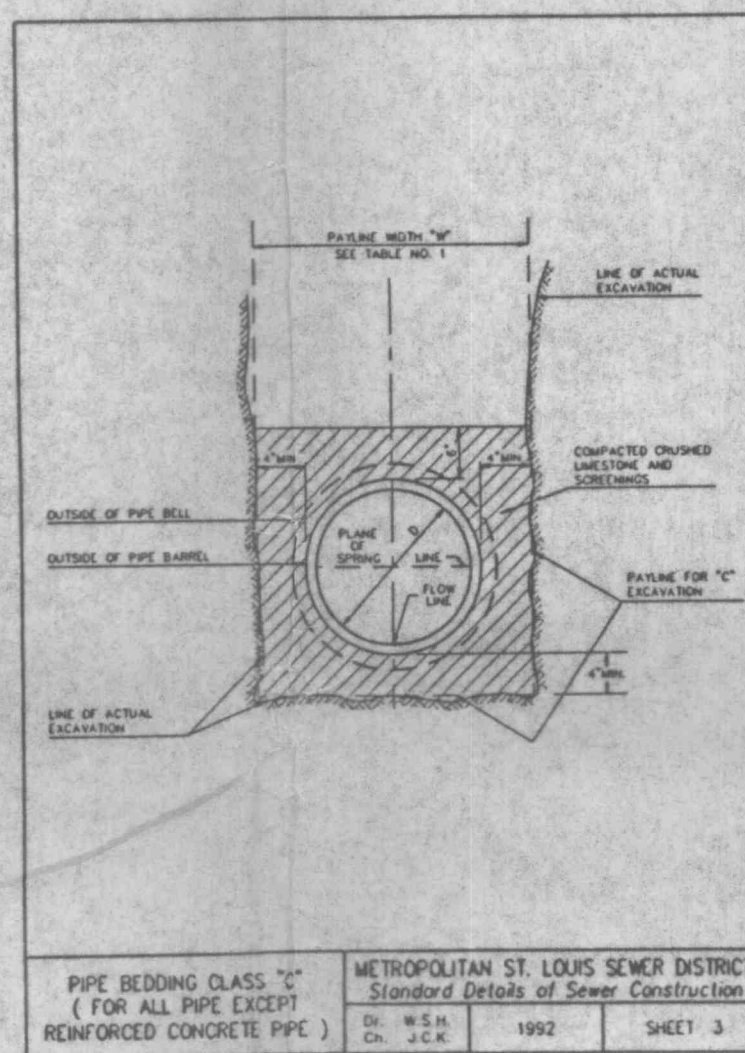


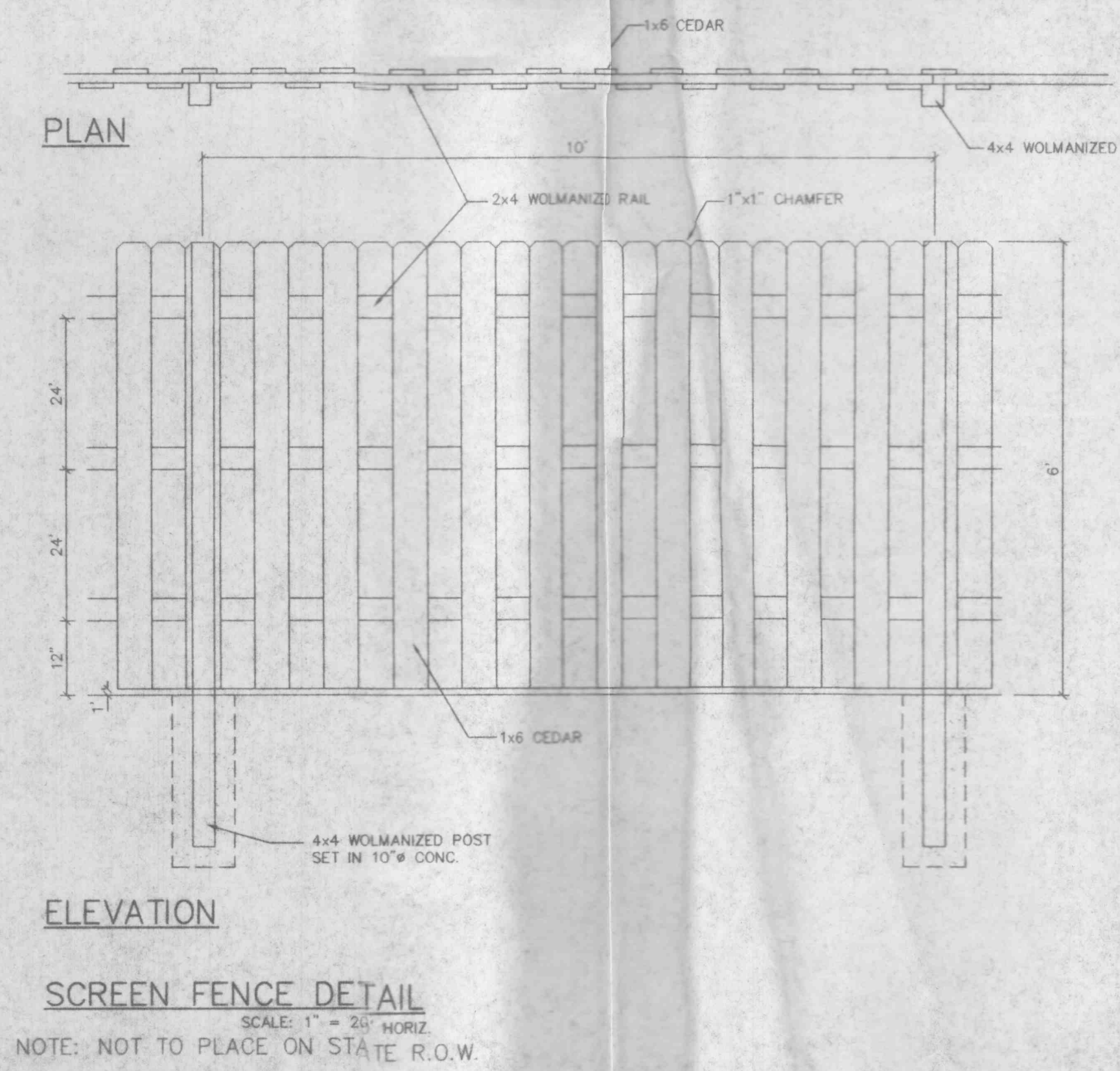
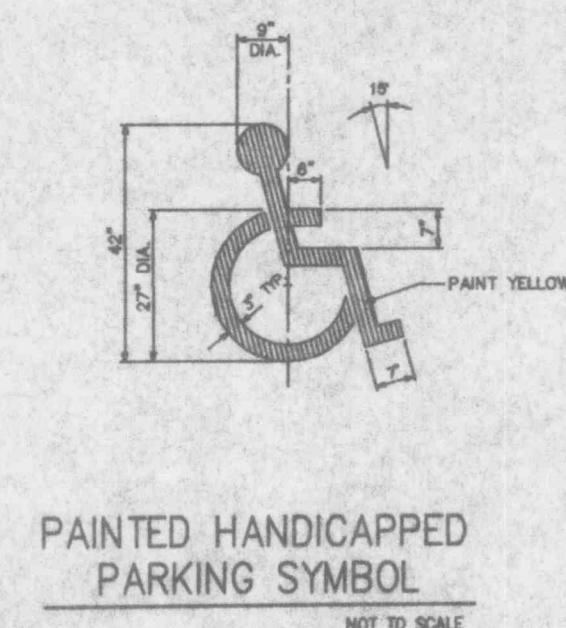
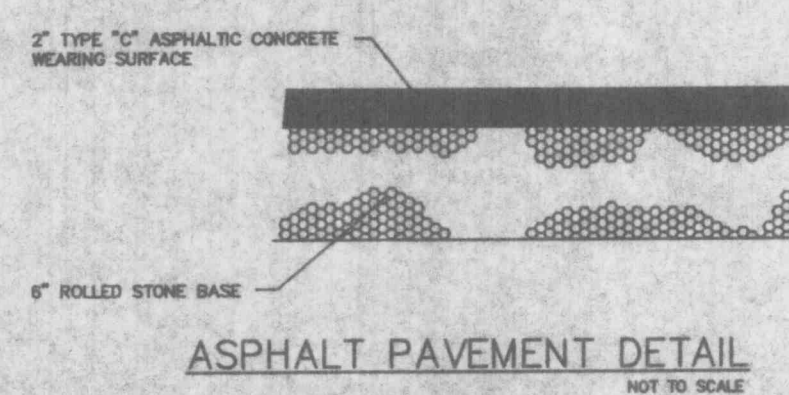
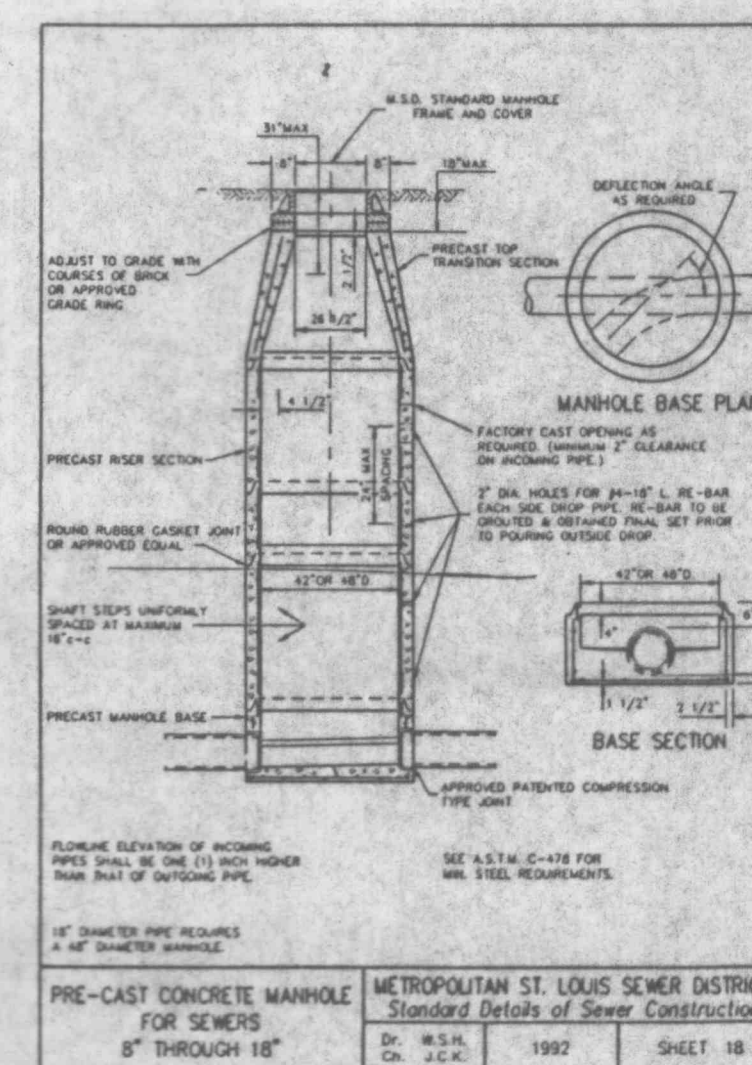
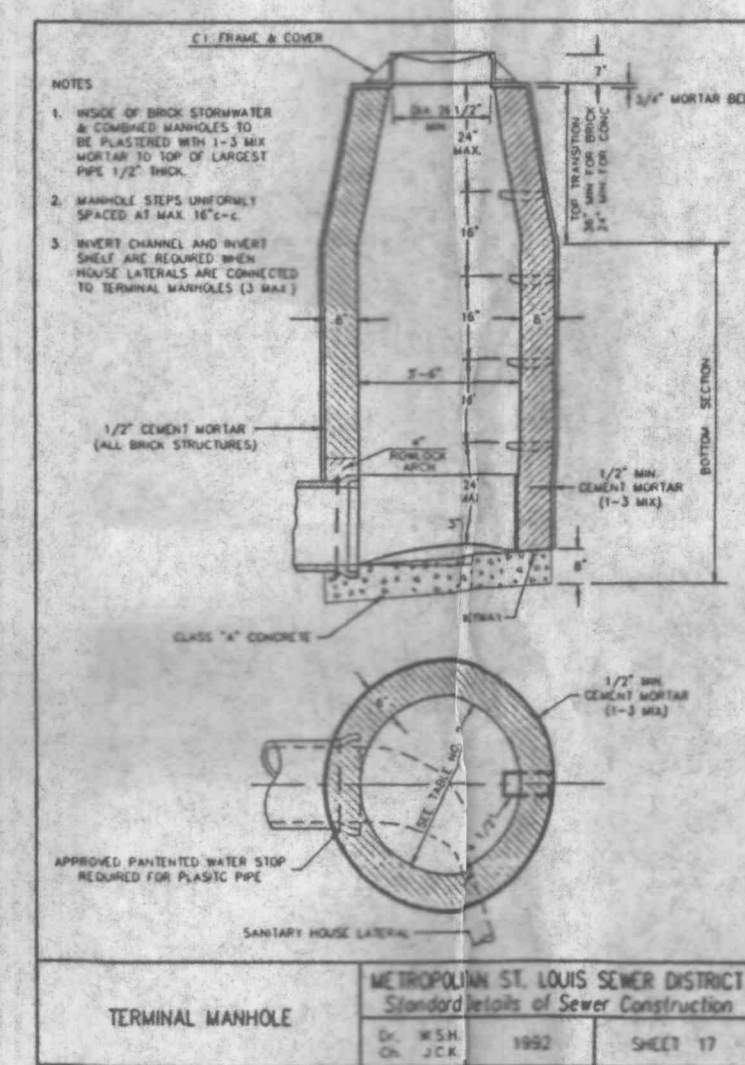
ROUND PIPE						HORIZONTAL ELLIPTICAL PIPE					
PIPE DIAMETER (INCHES)	FRAME WIDTH OF TRENCH (INCHES)	FRAME WIDTH OF TRENCH (FEET)	CONCRETE ENCASEMENT (INCHES)	PIPE DIAMETER (INCHES)	FRAME WIDTH OF TRENCH (INCHES)	FRAME WIDTH OF TRENCH (FEET)	CONCRETE ENCASEMENT (INCHES)	PIPE DIAMETER (INCHES)	FRAME WIDTH OF TRENCH (INCHES)	FRAME WIDTH OF TRENCH (FEET)	CONCRETE ENCASEMENT (INCHES)
4	20	2.00	2.00								
6	26	2.50	2.50								
8	30	2.50	2.87								
10	36	3.00	3.38								
12	36	3.00	3.95								
15	36	3.00	5.18								
18	36	3.00	6.37	18 x 22	41	3.42	3.81				
24	42	3.50	7.26	18 x 30	48	4.08	3.98				
27	48	3.75	8.81	24 x 36	54	4.57	5.81				
30	48	4.00	9.30	24 x 36	54	4.93	6.28				
33	50	4.42	10.53	27 x 42	63	5.17	6.71				
36	50	4.87	11.83	27 x 42	63	5.50	8.02				
39	54	5.25	13.17	30 x 48	71	5.82	10.14				
42	60	5.55	15.38	30 x 50	75	6.25	10.68				
48	70	6.03	18.12	36 x 60	85	6.93	14.39				
54	72	6.42	18.75	42 x 66	82	7.67	18.91				
60	84	7.00	20.72	48 x 76	100	8.42	25.28				
66	84	7.50	21.45	54 x 84	108	8.98	28.25				
72	96	8.17	25.27	54 x 96	118	9.83	37.45				
78	100	8.75	26.24	60 x 100	128	10.90	38.58				
84	110	9.33	30.27	60 x 108	132	11.25	43.81				
90	118	9.82	30.90	72 x 112	145	12.02	38.98				
96	120	10.50	32.27	72 x 120	150	12.67	40.99				
102	120	11.00	32.98	84 x 108	160	13.57	46.93				
108	140	11.87	40.79	84 x 138	168	14.50	57.78				
114	140	12.50	38.84	90 x 144	170	14.87	59.76				
120	150	13.53	44.72	90 x 150	180	15.42	66.01				
126	160	14.42	50.92								
132	168	15.00	52.57	108 x 144	202	16.50	64.18				
144	180	16.17	62.48	108 x 180	218	18.17	105.19				

**TABLE 1  
PAVING WIDTHS OF TRENCH  
AND PAVERS**  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
By: M.S.D. 1992 SHEET 1



SECTION OF MANHOLE	DIMENSION
TOP TRANSITION	26 1/2" DIA.
BOTTOM DIA. PIPE	42" DIA.
BOTTOM SECTION	24" DIA. PIPE
BOTTOM SECTION	36" SQUARE

**TABLE NO. 2  
STANDARD MANHOLE DIMENSIONS**  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
By: M.S.D. 1992 SHEET 7



**PREPARED FOR:**  
ALVEY'S SIGNS  
401 HIGHWAY 175  
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(314) 978-4937

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REVISIONS
7-18-95 STATE

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AUGUST, 1995  
DATE  
95-7098  
PROJECT NUMBER  
3 OF 3  
SHEET OF  
7098.DWG  
FILE NAME  
DJB RLF  
DRAWN CHECKED