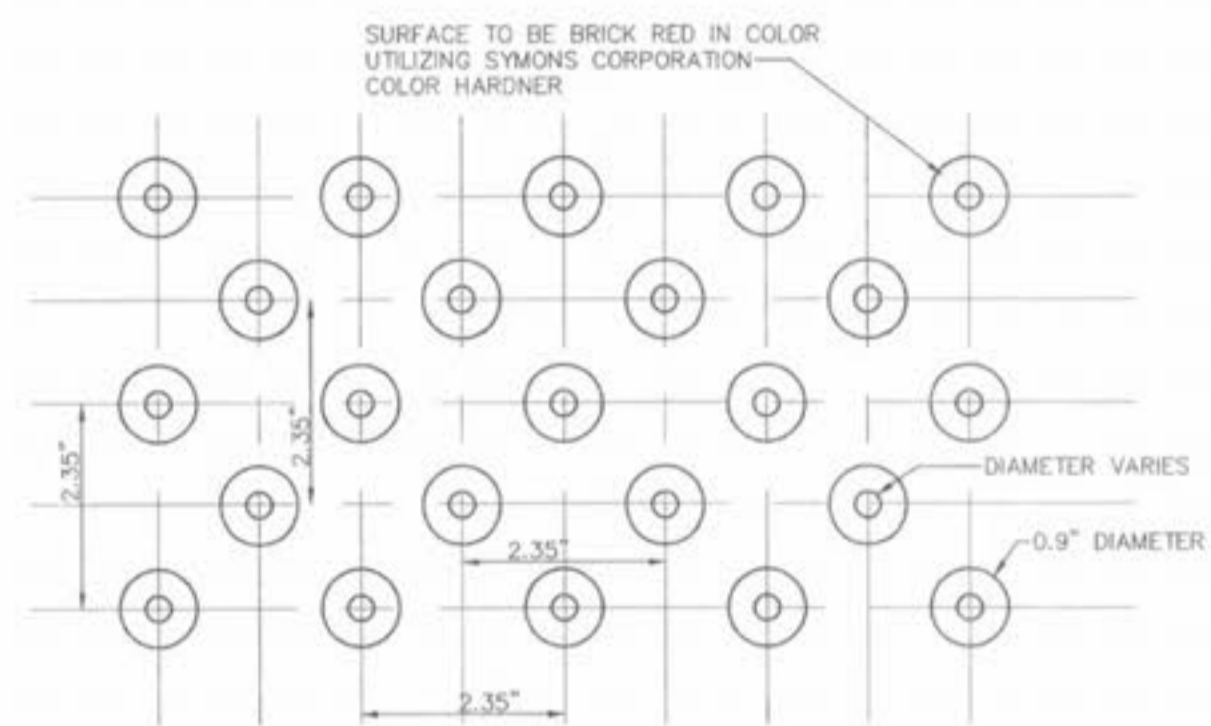


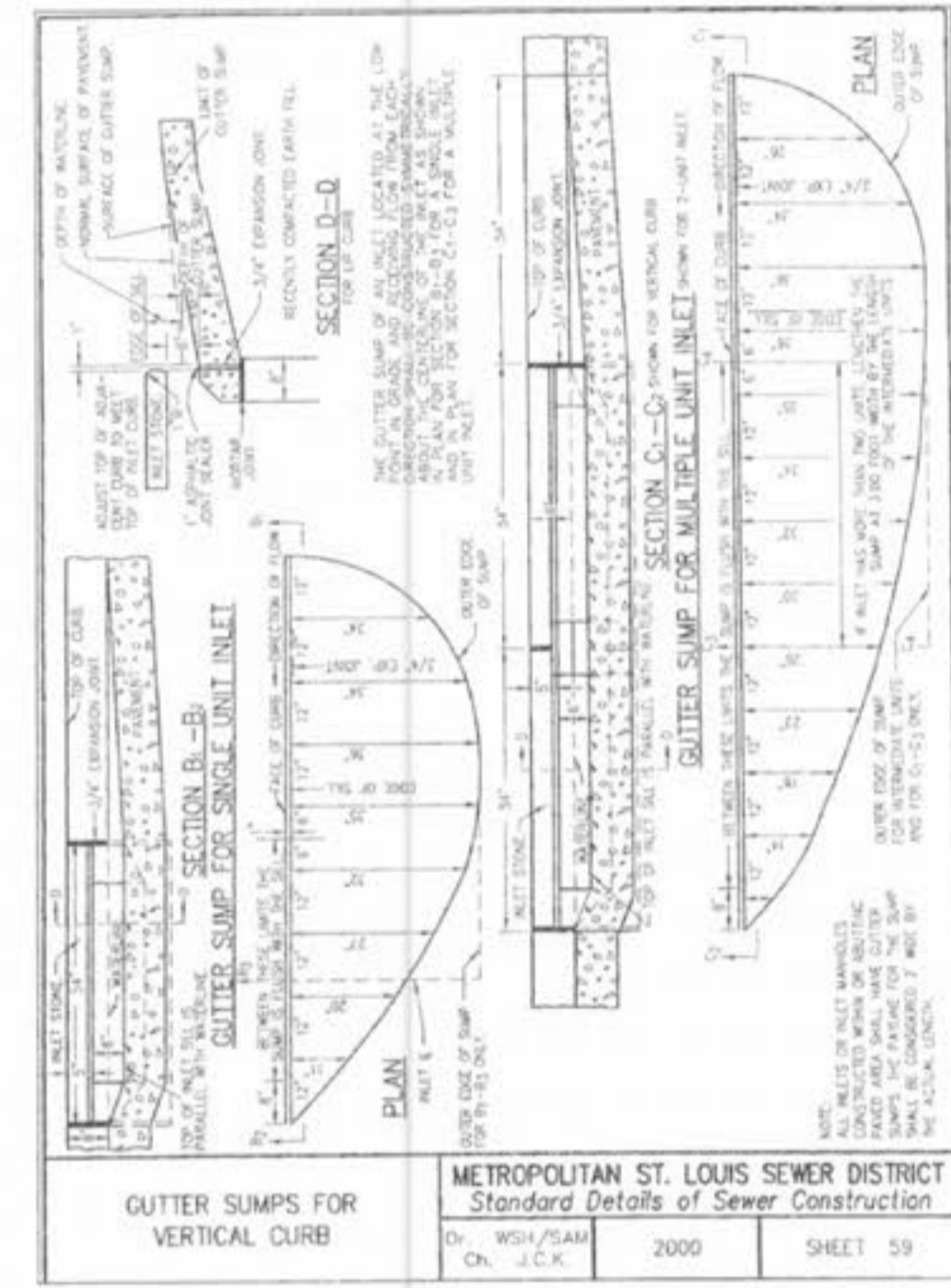
DETECTABLE WARNING SURFACE DETAIL
NOT TO SCALE

NOTE:
ALL HANDICAP RAMPS AND SIDEWALKS SHALL MEET ALL A.D.A. REQUIREMENTS, INCLUDING A.D.A. ACCESSIBILITY GUIDELINES (ADAAG) FOR DETECTABLE WARNING SURFACES (SECTION 110B).

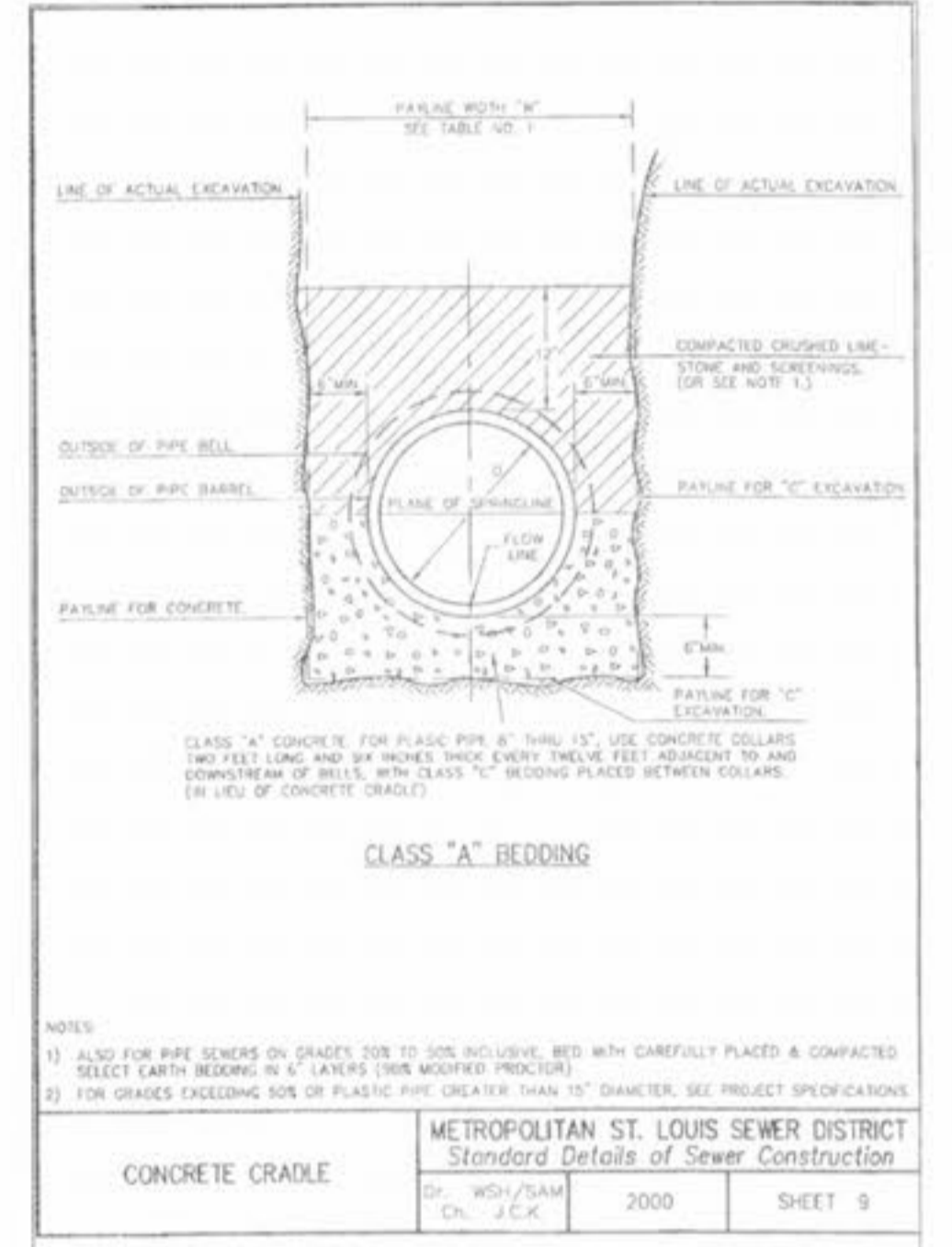


DETECTABLE WARNING PATTERN
NOT TO SCALE

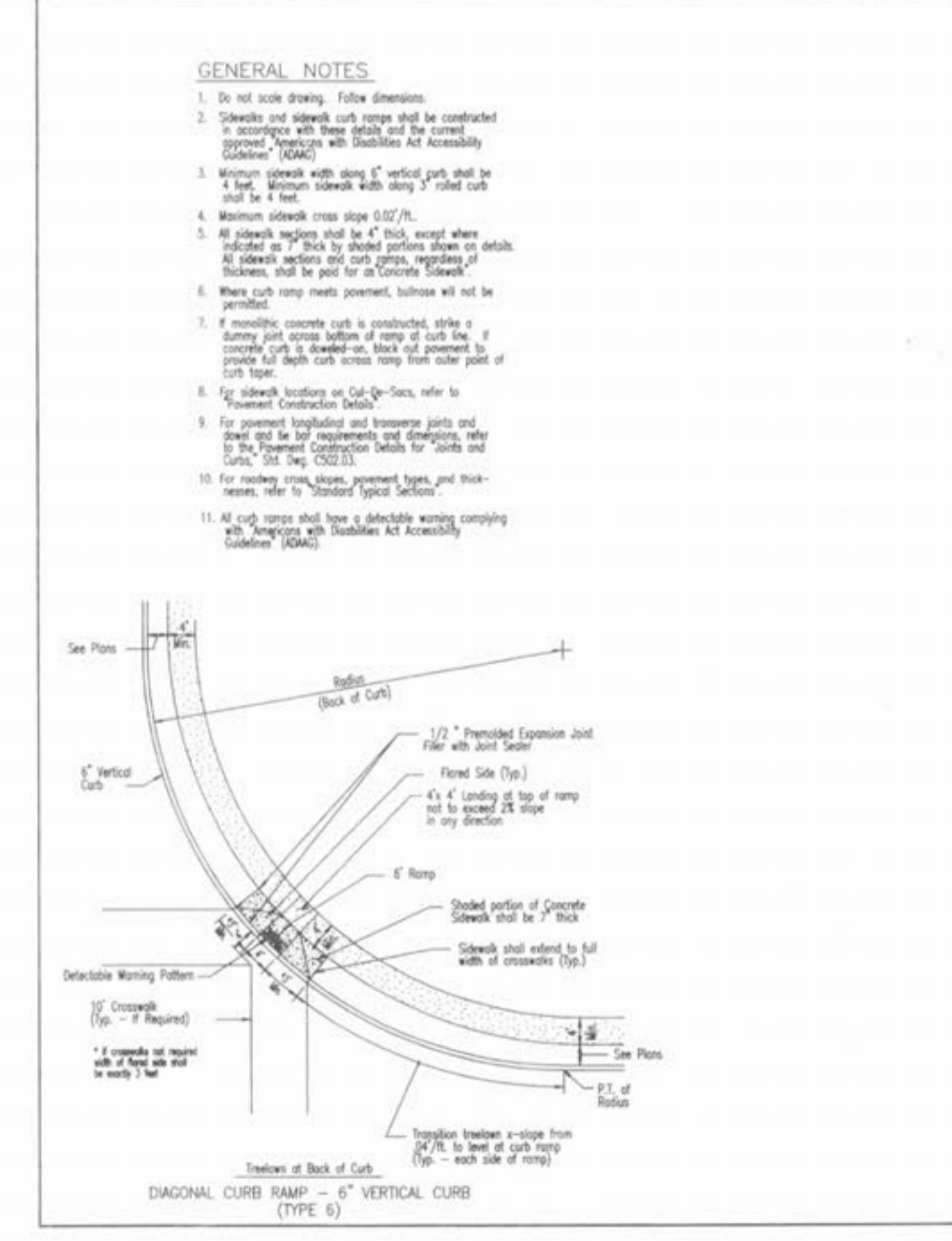
NOTE:
HANDICAP RAMPS SHALL BE BRICK RED IN COLOR UTILIZING "SYMONS CORPORATION COLOR HARDNER." SURFACE OF RAMP SHALL BE PATTERNED USING "SYMONS CONCRETE STAMPING TOOLS" TO PROVIDE THE DETECTABLE WARNING SURFACE PATTERN AS DEPICTED IN THE DETECTABLE WARNING SURFACE DETAIL. CONTRACTOR SHALL FOLLOW THE RECOMMENDED PROCEDURES AND SPECIFICATIONS OF SYMONS CORPORATION FOR COLOR HARDNER AND CONCRETE SURFACE STAMPING.



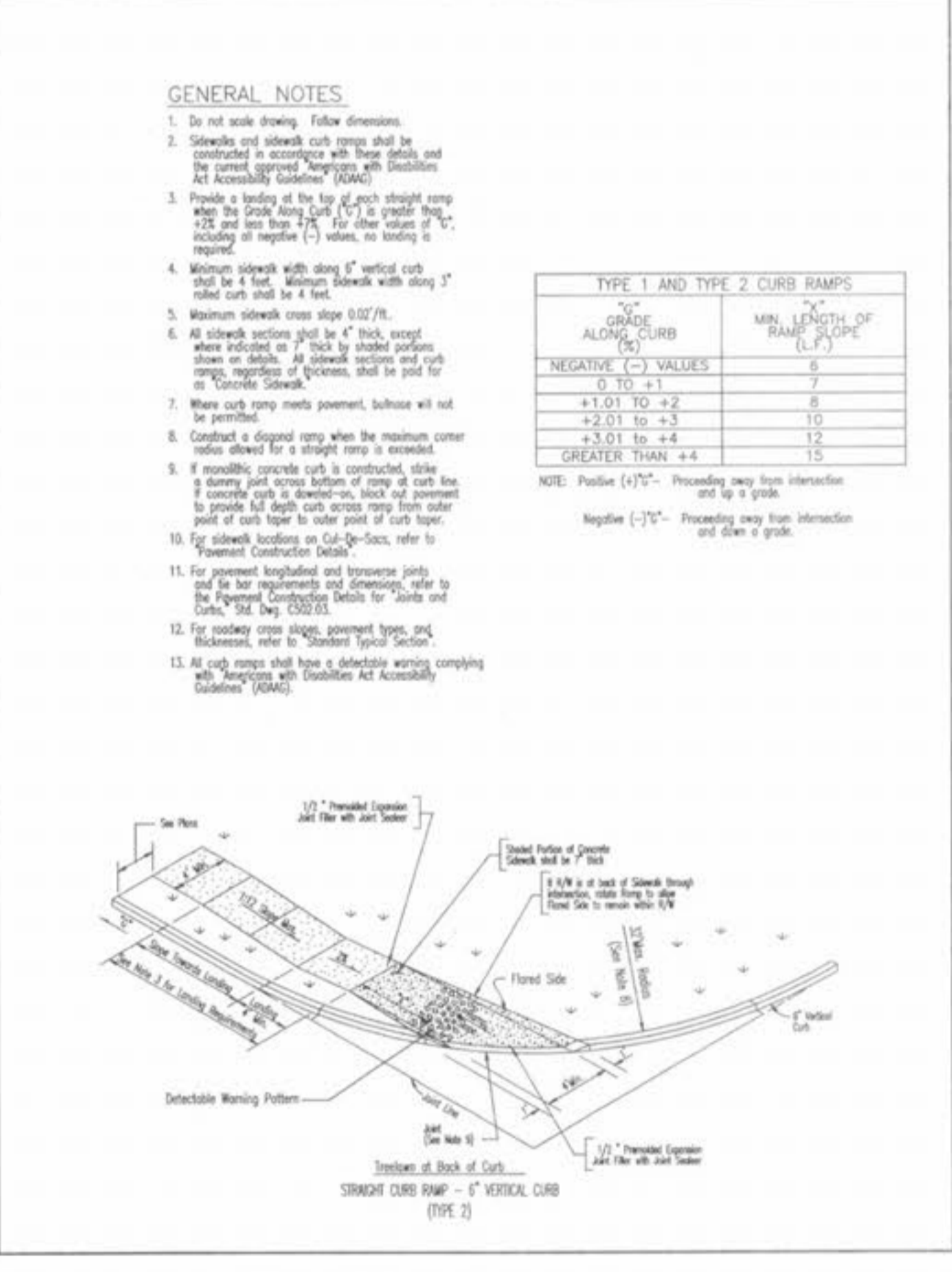
GUTTER SUMPS FOR VERTICAL CURB
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. WSH/SAAM
Ch. J.C.K. 2000 SHEET 59



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



DIAGONAL CURB RAMP - 6\"/>



STRAIGHT CURB RAMP - 6\"/>

GENERAL NOTES

- Do not scale drawing. Follow dimensions.
- Sidewalk and sidewalk curb ramps shall be constructed in accordance with these details and the current approved Americans with Disabilities Act Accessibility Guidelines (ADAAG).
- Minimum sidewalk width along 6\"/>

GENERAL NOTES

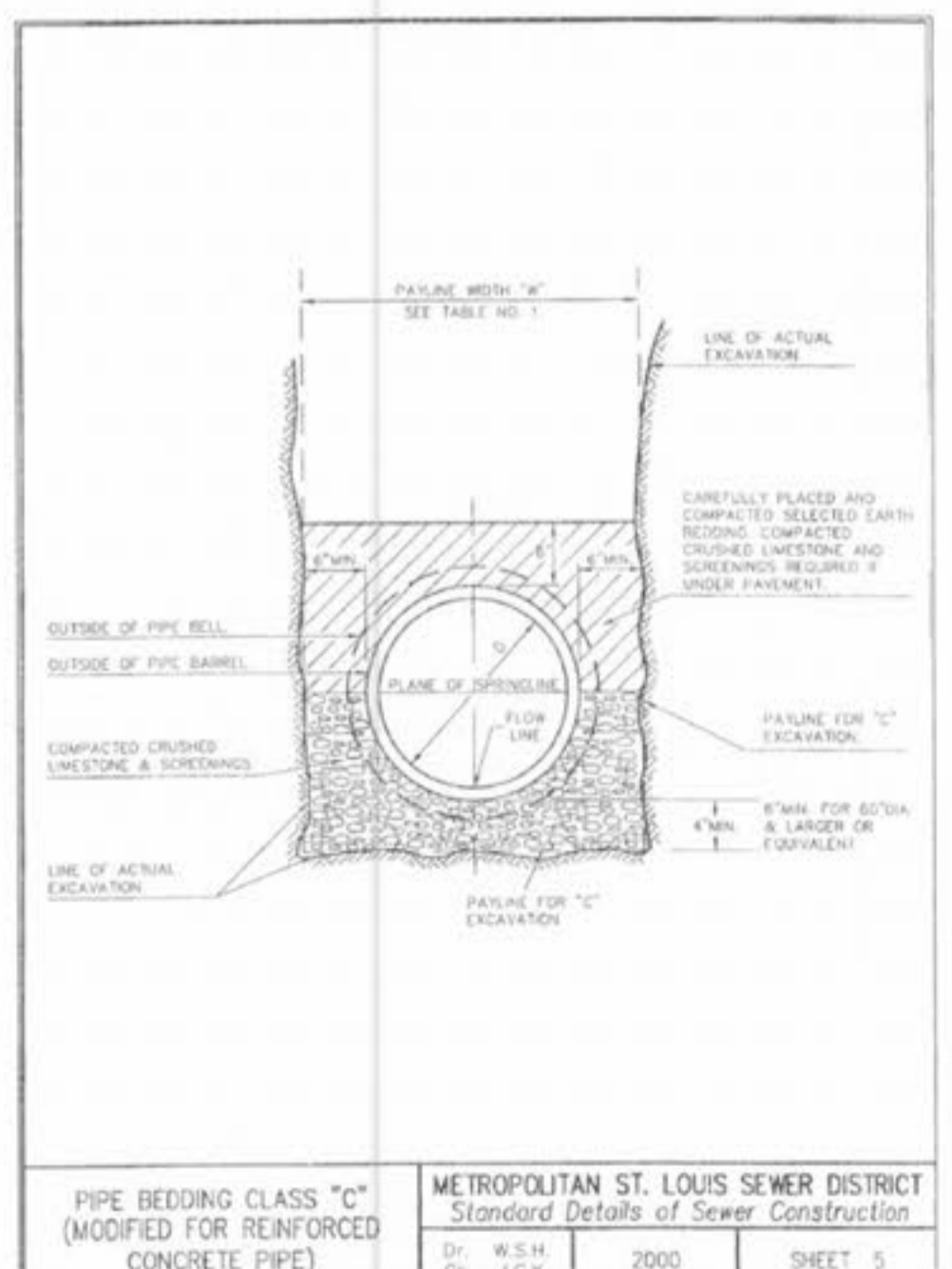
- Do not scale drawing. Follow dimensions.
- Sidewalk and sidewalk curb ramps shall be constructed in accordance with these details and the current approved Americans with Disabilities Act Accessibility Guidelines (ADAAG).
- Provide a landing at the top of each straight ramp when the Grade Along Curb (GAL) is greater than +3.02 and less than +3.04. For other values of GAL, including all negative (-) values, no landing is required.
- Minimum sidewalk width along 6\"/>

GRADE ALONG CURB (GAL)	MIN. LENGTH OF RAMP SLOPE (L.F.)
NEGATIVE (-) VALUES	5
0 TO +1	7
+1.01 TO +2	8
+2.01 TO +3	10
+3.01 TO +4	12
GREATER THAN +4	15

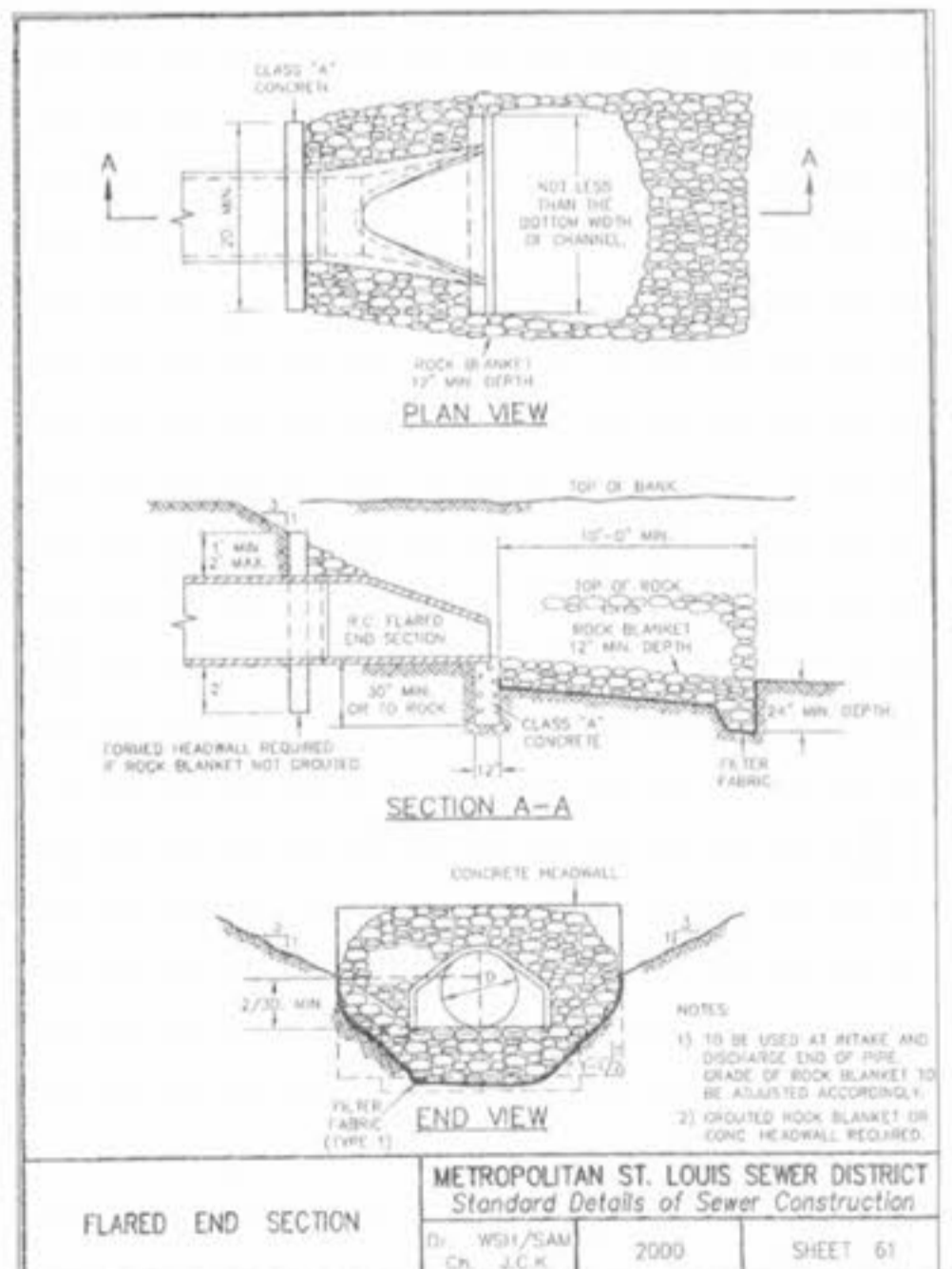
NOTE: Positive (+) GAL - Proceeding away from intersection and to a grade.
Negative (-) GAL - Proceeding away from intersection and down a grade.

INCHES	ROUND PIPE			HORIZONTAL ELLIPTICAL PIPE			
	PAYLINE WIDTH OF TRENCH (INCHES)	PAYLINE WIDTH OF TRENCH (FEET)	CONCRETE ENCASUREMENT (INCHES)	PAYLINE WIDTH OF TRENCH (INCHES)	PAYLINE WIDTH OF TRENCH (FEET)	CONCRETE ENCASUREMENT (INCHES)	
4	30	2.50	3.28				
6	30	2.50	3.59				
8	30	2.50	3.87				
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 23	41	3.42	5.94
21	36	3.25	6.81				
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	8.30	24 x 38	56	4.83	9.70
33	53	4.42	10.53	27 x 42	62	5.17	10.74
36	58	4.87	11.43	29 x 45	66	5.30	11.72
39	63	5.28	13.38	32 x 45	71	5.92	12.14
42	63	5.28	13.38	34 x 53	75	6.28	14.06
48	72	5.83	16.67	38 x 60	83	6.82	16.12
54	77	6.42	18.15	42 x 68	93	7.67	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	33.61
90	119	9.92	35.90	72 x 113	143	11.92	36.78
96	126	10.50	39.37	77 x 121	152	12.63	40.00
102	132	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	50.66	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	180	15.17	72.40	116 x 180	218	18.17	72.58

TABLE 1
PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. WSH/SAAM
Ch. J.C.K. 2000 SHEET 1



PIPE BEDDING CLASS "C"
(MODIFIED FOR REINFORCED CONCRETE PIPE)
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. WSH/SAAM
Ch. J.C.K. 2000 SHEET 5



FLARED END SECTION
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. WSH/SAAM
Ch. J.C.K. 2000 SHEET 61

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
7-08-04	EB	REVISED PER CITY COMMENTS			
7-30-04	EB	REVISED PER CITY COMMENTS			
9-0-04	EB	REVISED PER CITY COMMENTS			
9-16-04	EB	REVISED PER CITY COMMENTS			

BAX ENGINEERING CO., INC.
1052 South Cloverleaf Drive
St. Peters, MO 63376-6445
Phone: 636-928-6555
Fax: 636-928-1718

PREPARED FOR:
HYLAND GREEN, LLC

PROJECT NAME:
KOCH ROAD RELOCATION
PROJECT NO.: 98-10293D DATE: 05/20/2004

REFERENCE CONSTRUCTION DETAILS

DISCLAIMER OF RESPONSIBILITY
I hereby certify that the documents intended to be authorized by this seal are those of my firm, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments existing to or intended to be used for any part or parts of the construction or engineering project or survey.

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