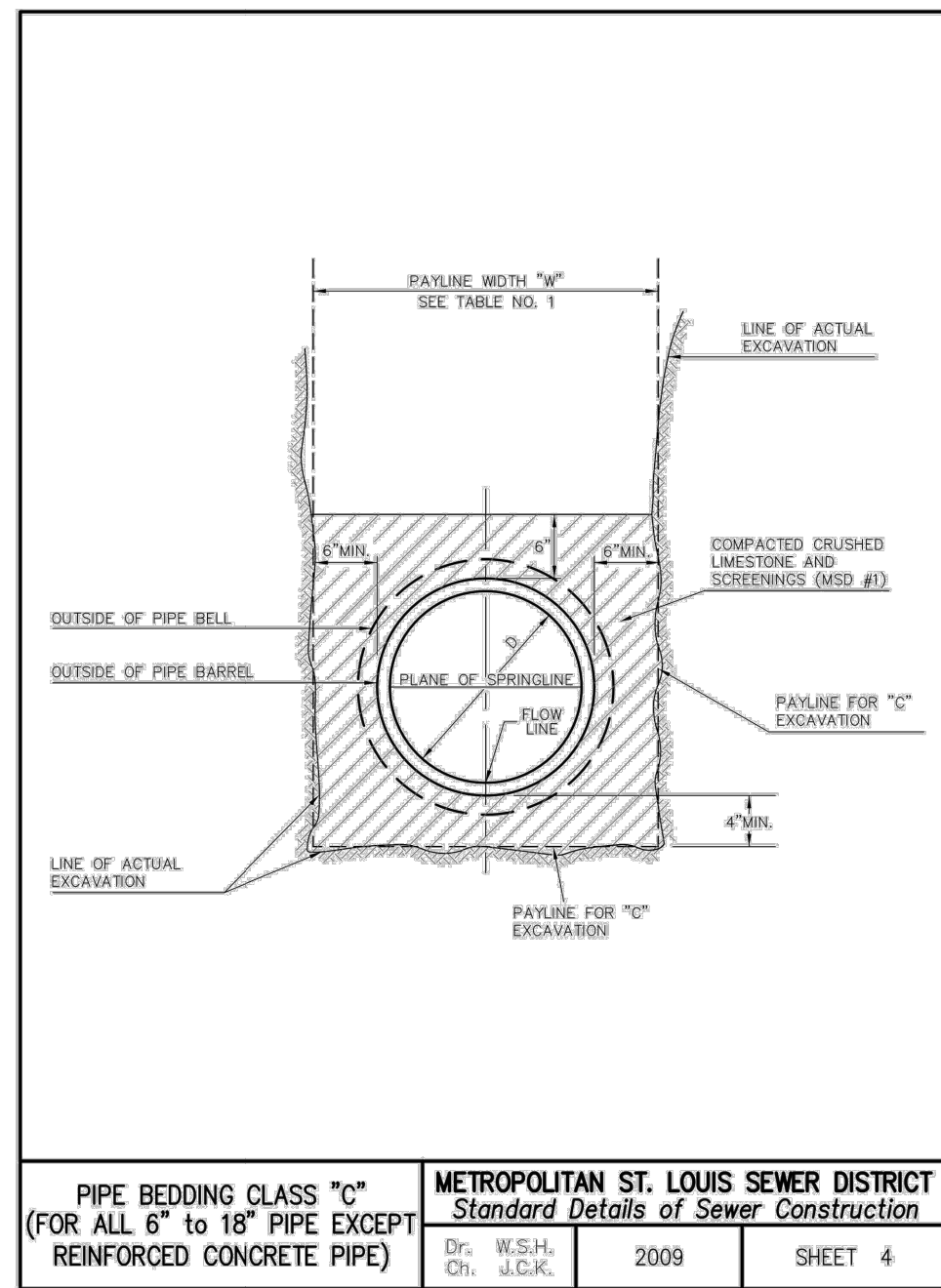
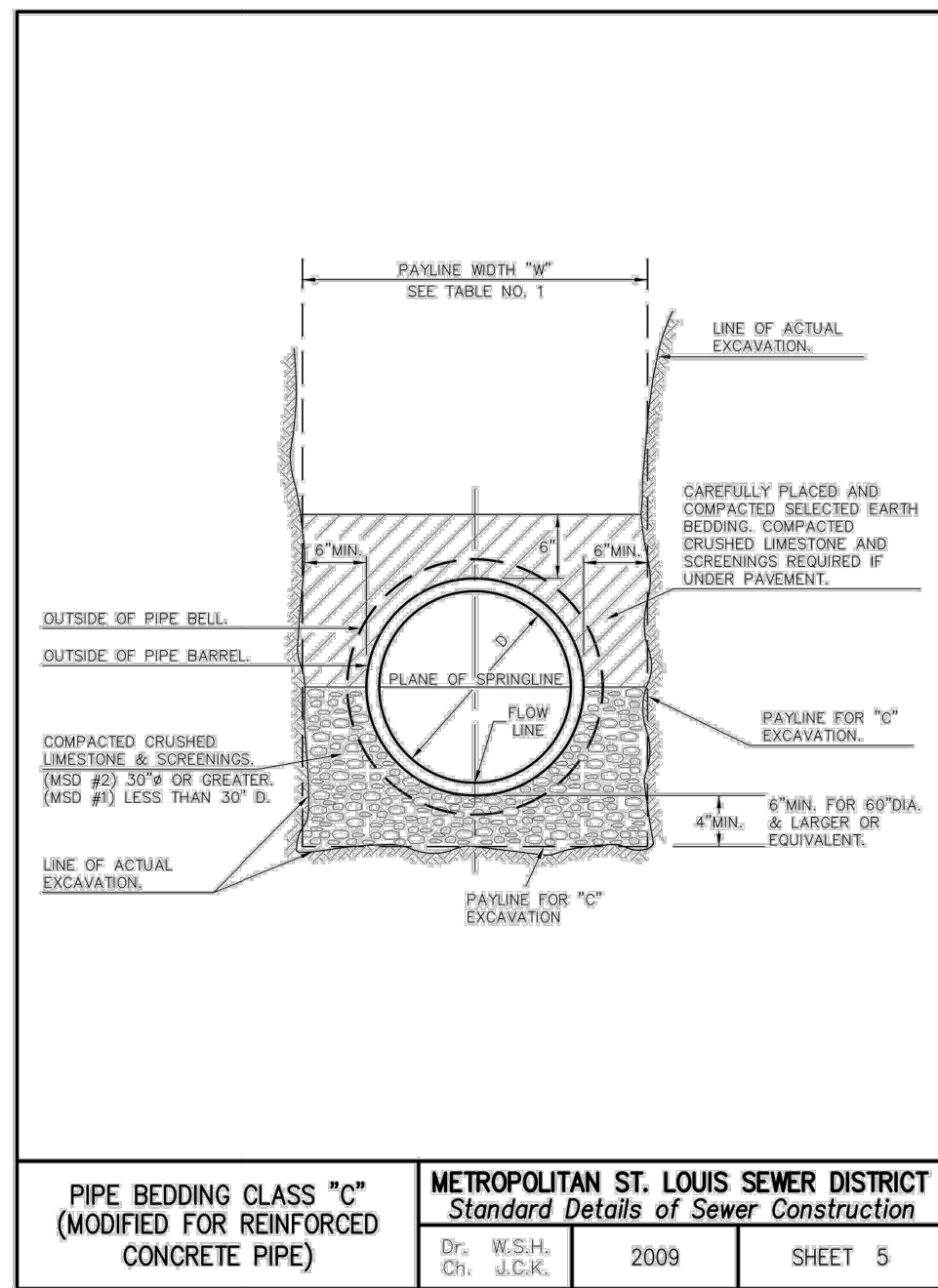


ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
INSIDE DIAMETER OF PIPE (INCHES)	"H" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES (CU. FT. PER FT.)	INSIDE DIMENSIONS OF PIPE (INCHES)	"H" PAYLINE WIDTH OF TRENCH (FEET)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES (CU. FT. PER FT.)
4	30	2.50	3.28				
6	30	2.50	3.59				
8	30	2.50	3.87				
10	30	2.50	4.09				
12	30	2.50	4.25				
15	36	3.00	5.50				
18	36	3.00	5.77	14 x 23	41	3.42	5.84
21	39	3.25	6.61				
24	42	3.50	7.39	19 x 30	49	4.08	7.65
27	45	3.75	8.16	22 x 34	53	4.42	8.61
30	48	4.08	9.30	24 x 38	58	4.83	9.70
33	53	4.42	10.53	27 x 42	62	5.17	10.71
36	56	4.67	11.43	28 x 45	66	5.50	11.72
39	DISCONTINUED						
42	63	5.25	13.38	34 x 53	75	6.25	14.05
48	70	5.83	15.67	38 x 49	83	6.89	16.18
54	77	6.42	18.15	43 x 68	92	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	33.91
90	119	9.92	35.80	73 x 113	143	11.93	36.69
96	126	10.50	39.37	77 x 120	152	12.67	40.69
102	133	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	108 x 168	202	16.83	64.48
144	182	15.17	72.40	116 x 180	218	18.17	73.99

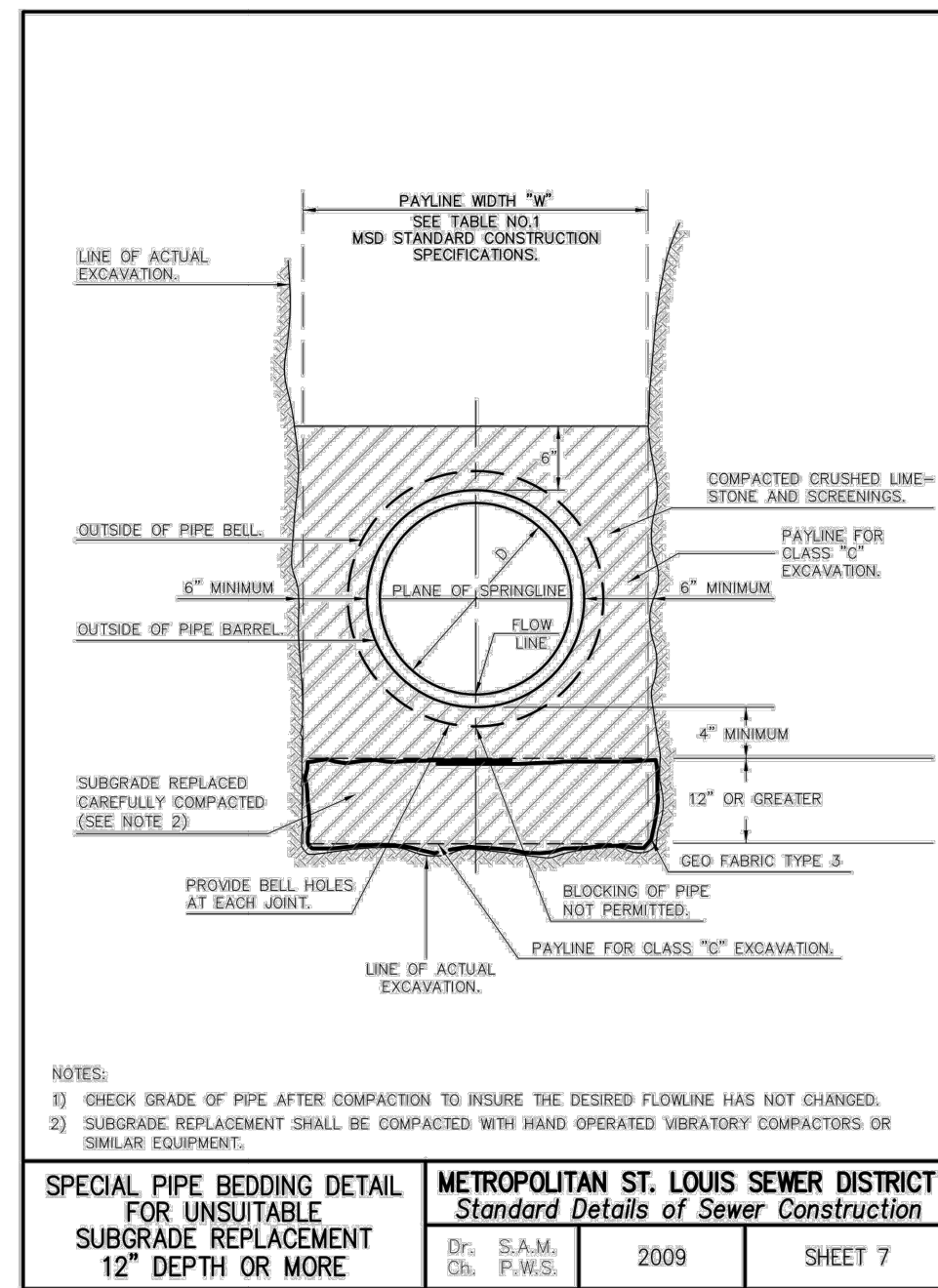
TABLE 1  
PAYLINE WIDTHS OF TRENCH AND PAY-VOLUMES OF CONCRETE  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. WESH/SAM  
Ch. J.C.K. 2009 SHEET 1



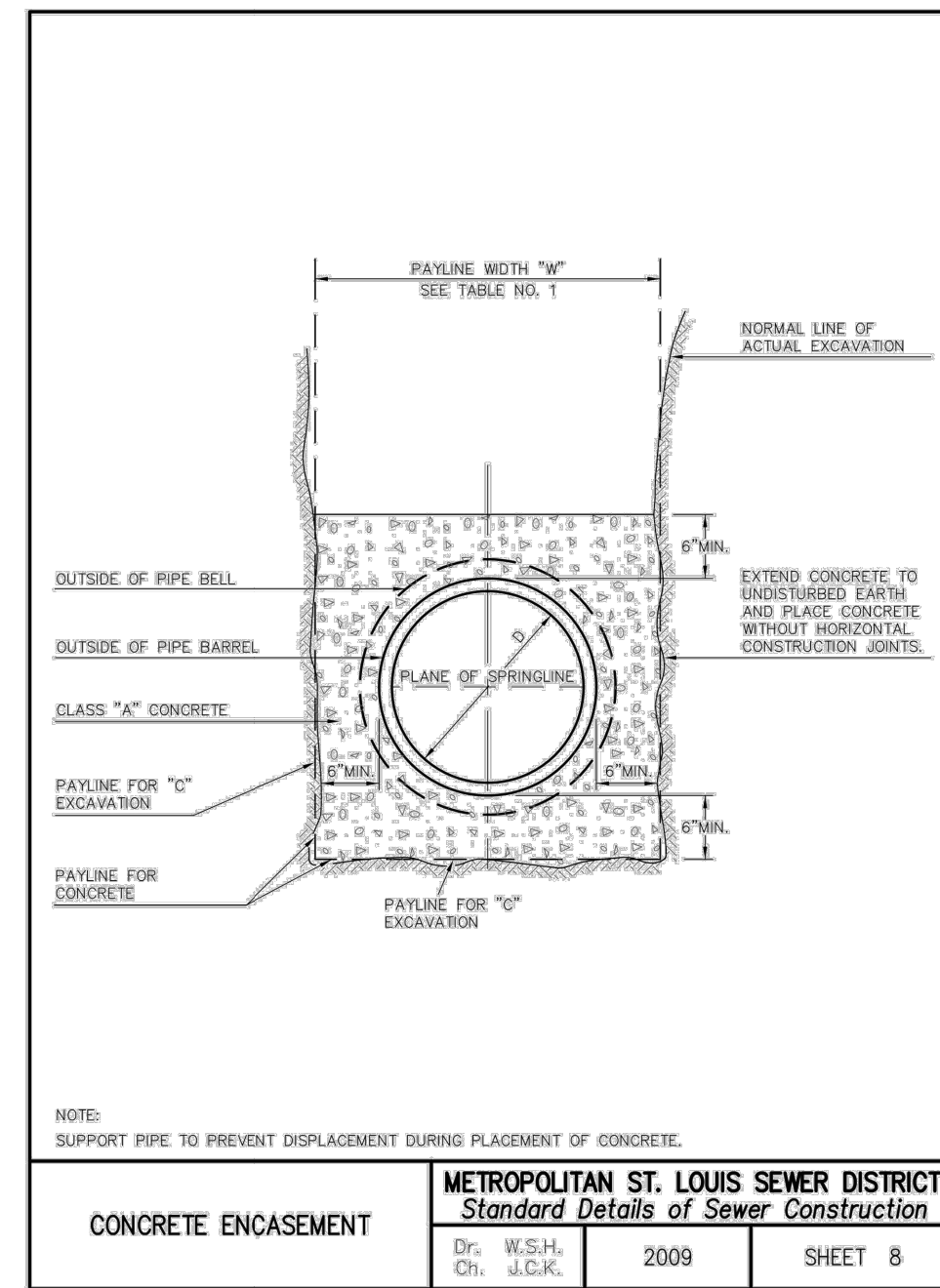
PIPE BEDDING CLASS "C"  
(FOR ALL 6" TO 18" PIPE EXCEPT REINFORCED CONCRETE PIPE)  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. WESH/SAM  
Ch. J.C.K. 2009 SHEET 4



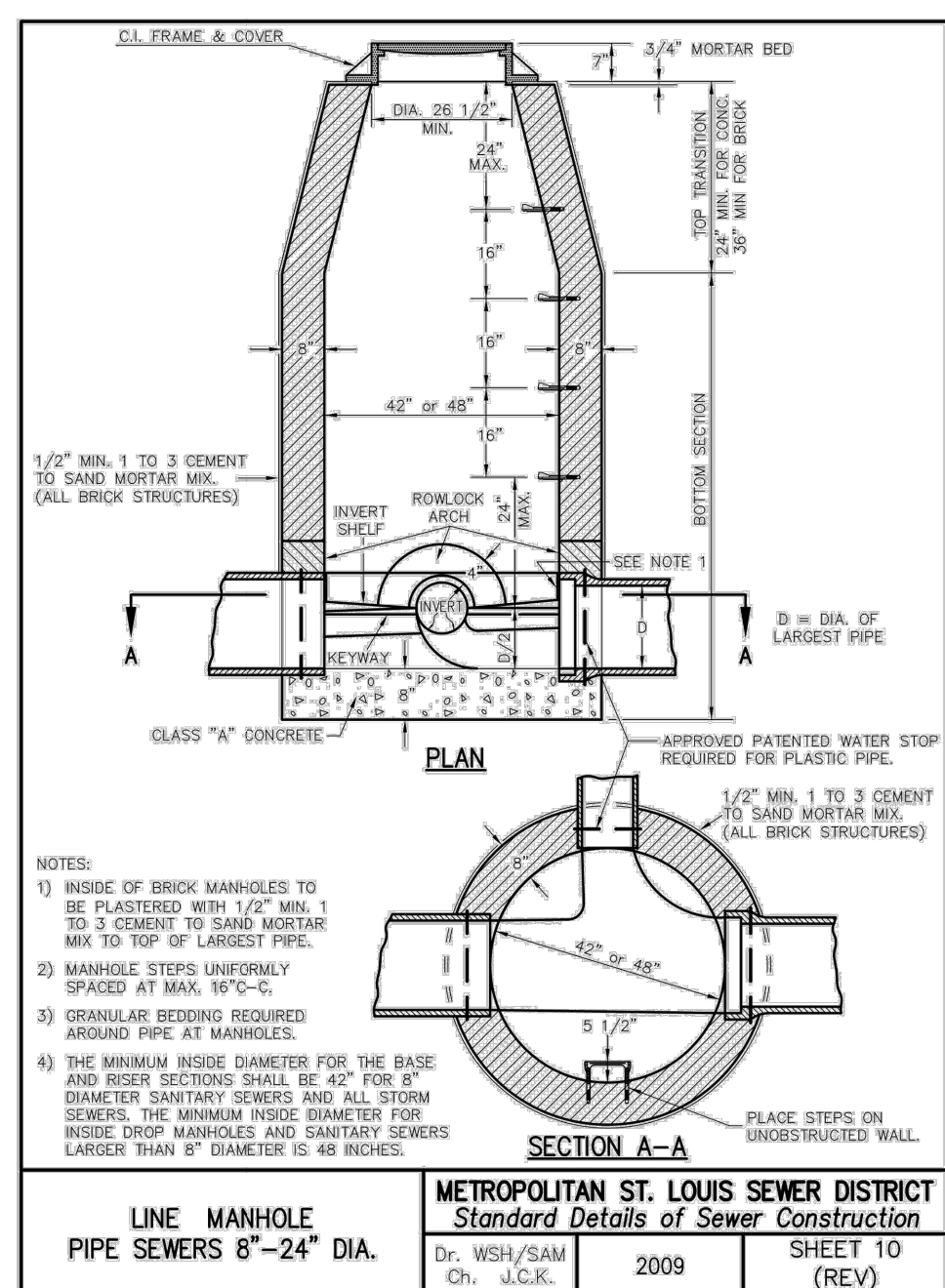
PIPE BEDDING CLASS "C"  
(MODIFIED FOR REINFORCED CONCRETE PIPE)  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. WESH/SAM  
Ch. J.C.K. 2009 SHEET 5



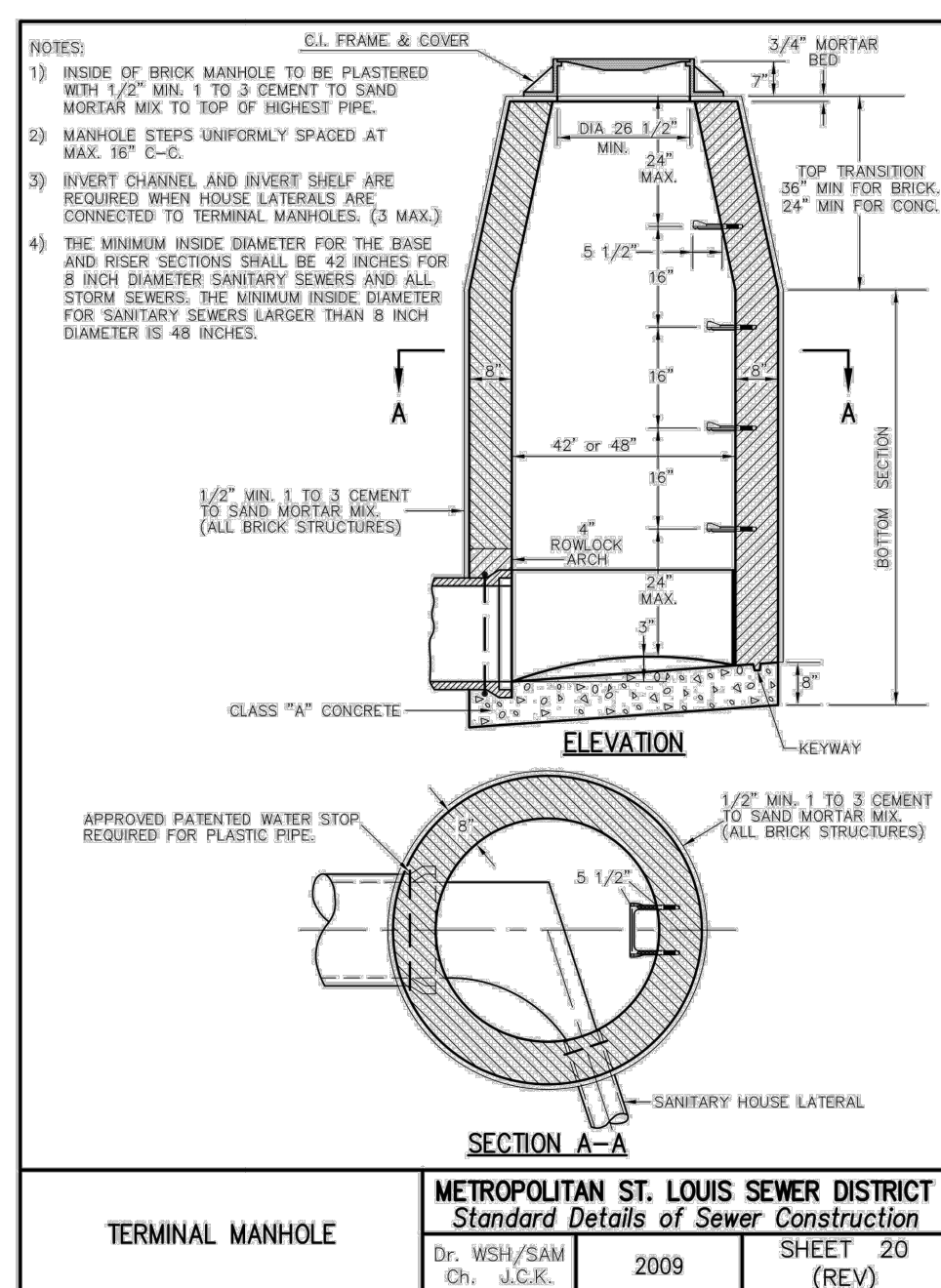
SPECIAL PIPE BEDDING DETAIL FOR UNSUITABLE SUBGRADE REPLACEMENT 12" DEPTH OR MORE  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. WESH/SAM  
Ch. P.W.S. 2009 SHEET 7



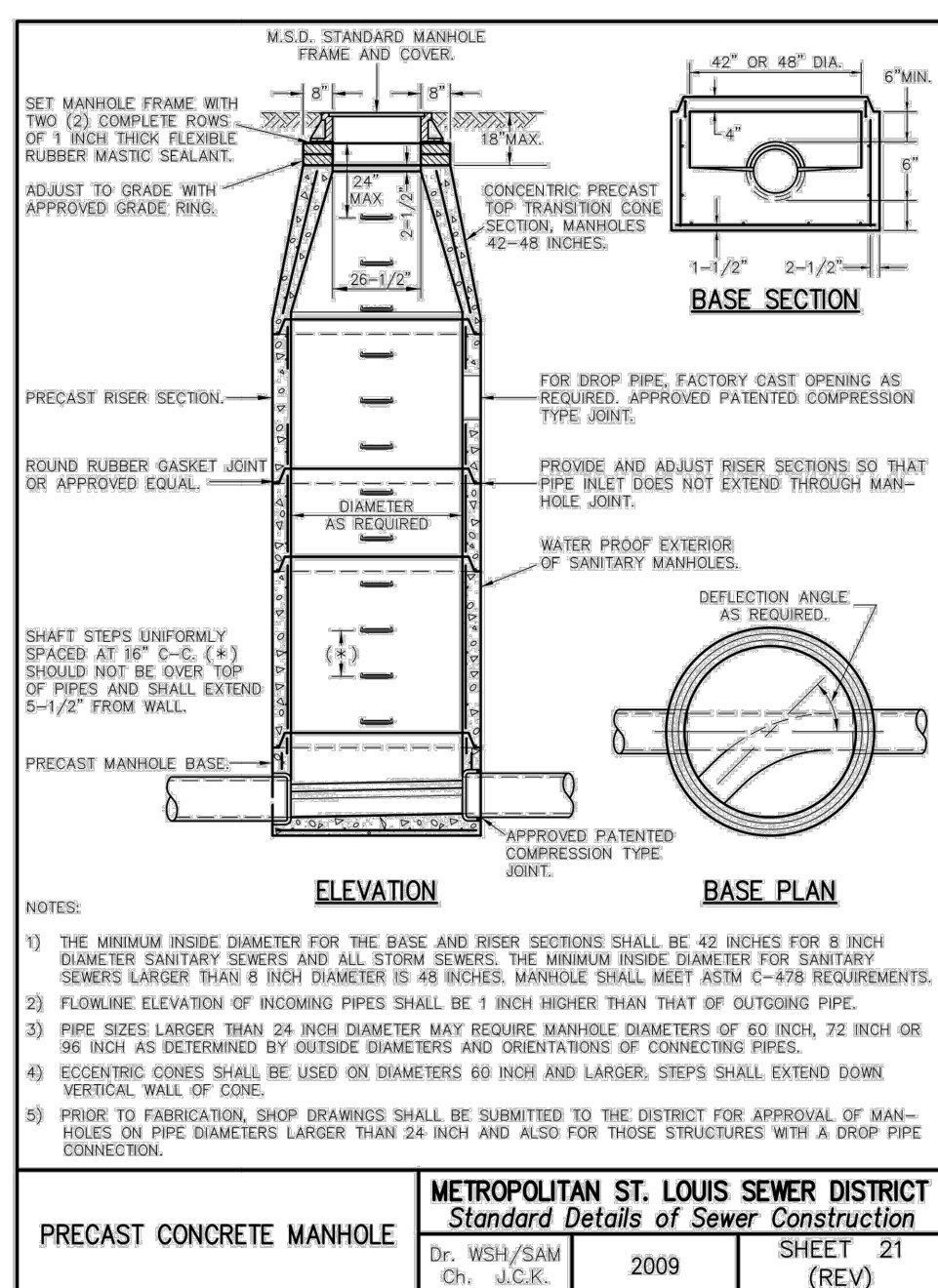
CONCRETE ENCASEMENT  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. WESH/SAM  
Ch. J.C.K. 2009 SHEET 8



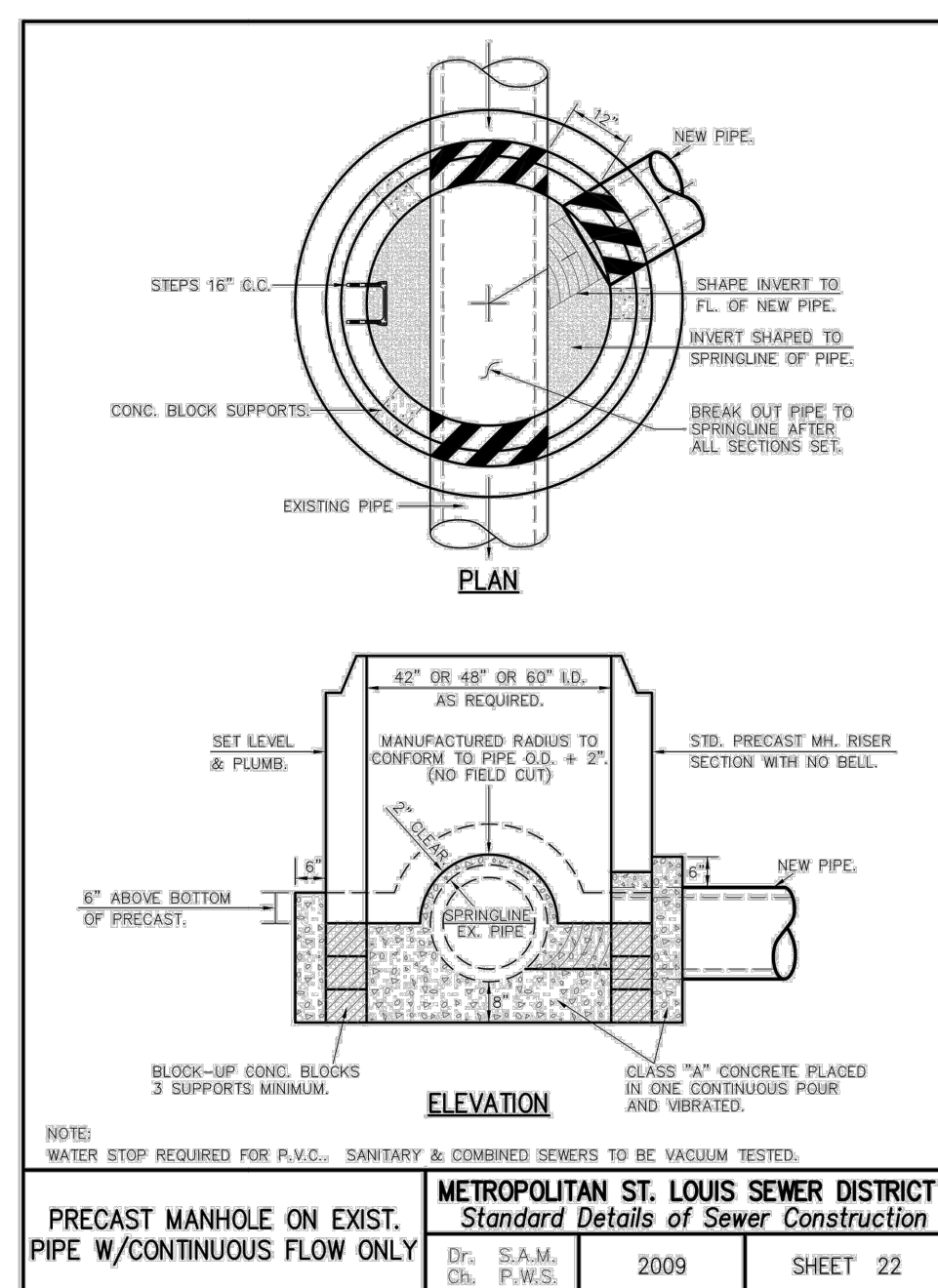
LINE MANHOLE PIPE SEWERS 8"-24" DIA.  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. WESH/SAM  
Ch. J.C.K. 2009 SHEET 10 (REV)



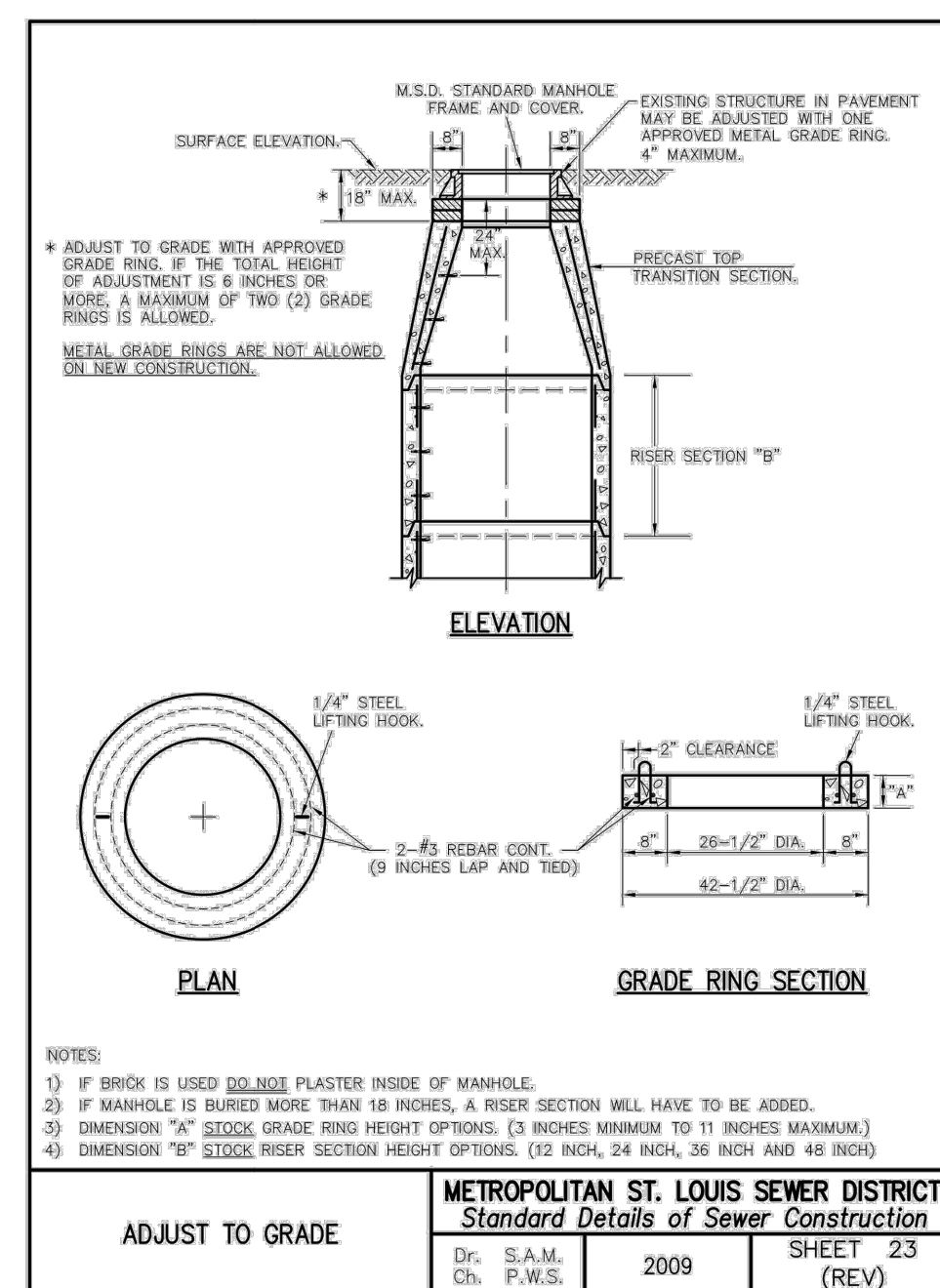
TERMINAL MANHOLE  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. WESH/SAM  
Ch. J.C.K. 2009 SHEET 20 (REV)



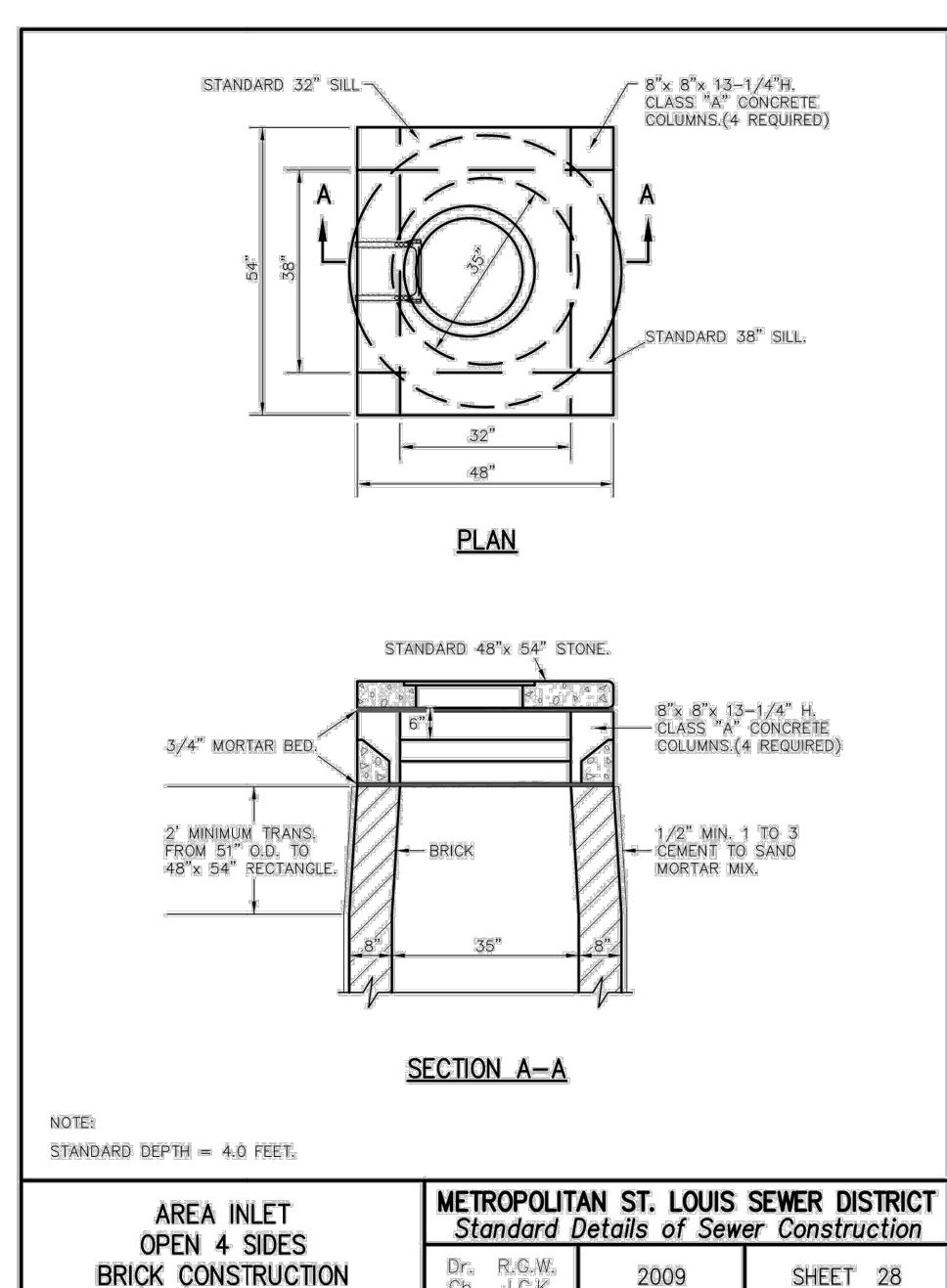
PRECAST CONCRETE MANHOLE  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. WESH/SAM  
Ch. J.C.K. 2009 SHEET 21 (REV)



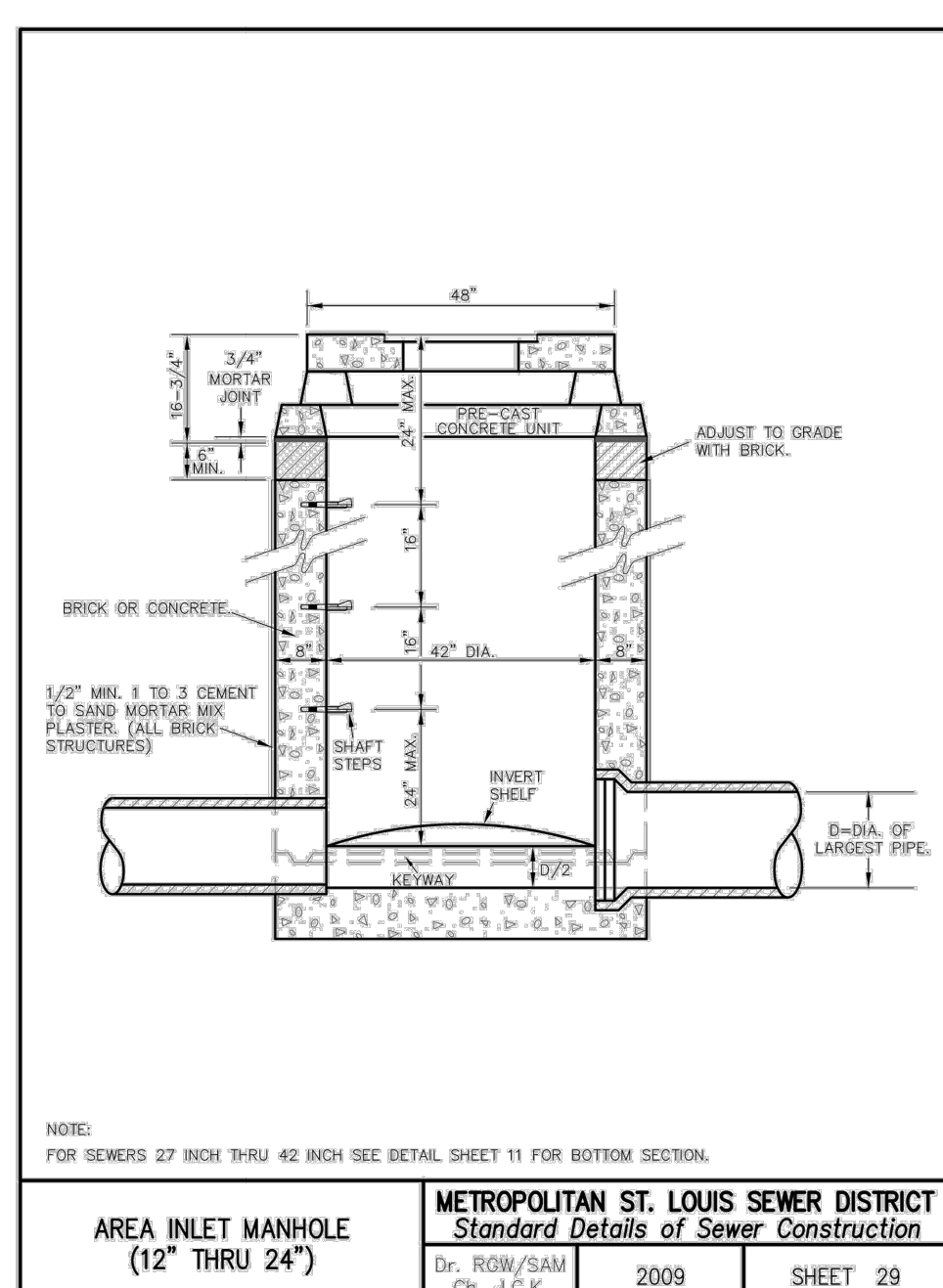
PRECAST MANHOLE ON EXIST. PIPE W/CONTINUOUS FLOW ONLY  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. WESH/SAM  
Ch. P.W.S. 2009 SHEET 22



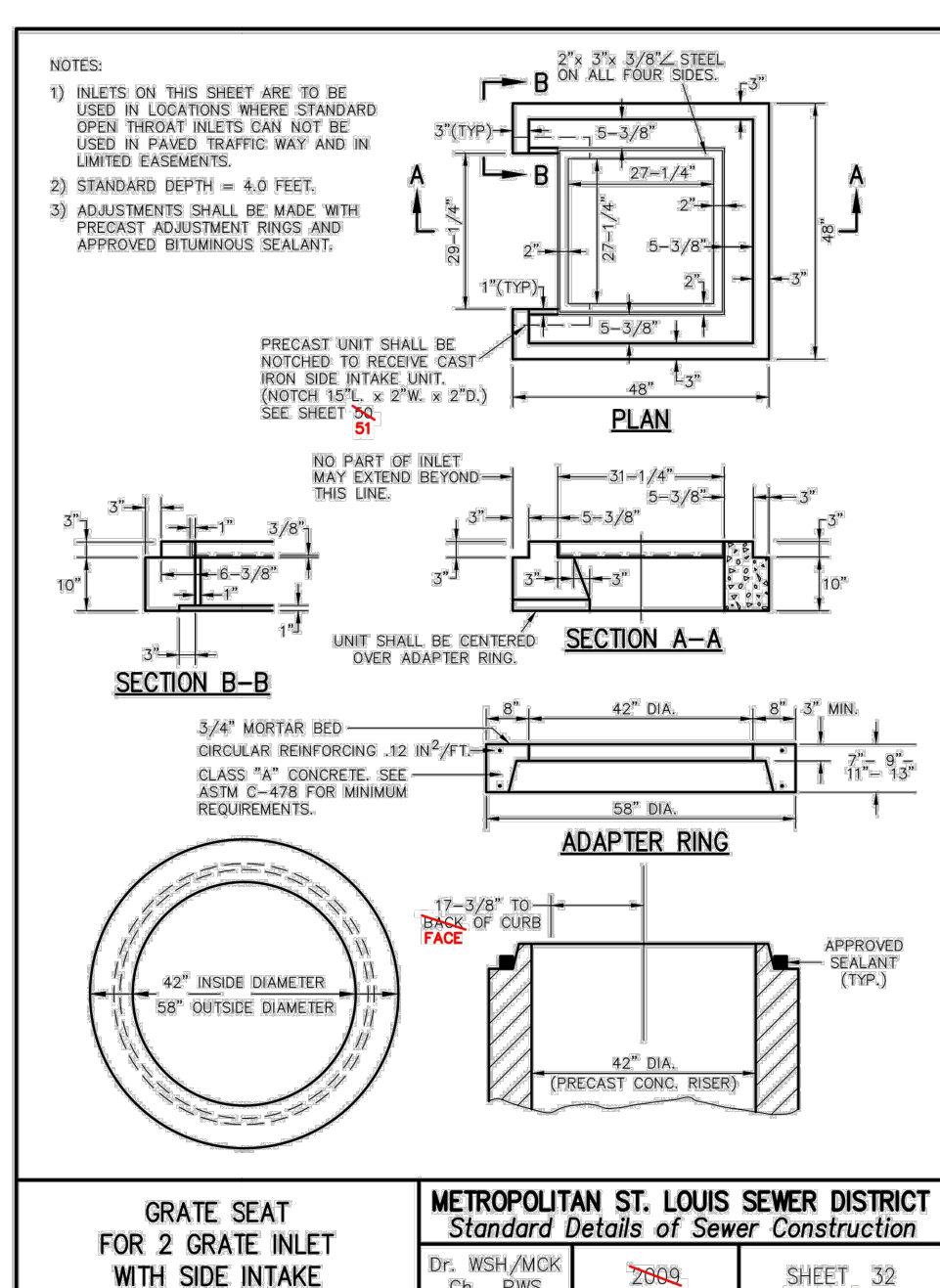
ADJUST TO GRADE  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. WESH/SAM  
Ch. P.W.S. 2009 SHEET 23 (REV)



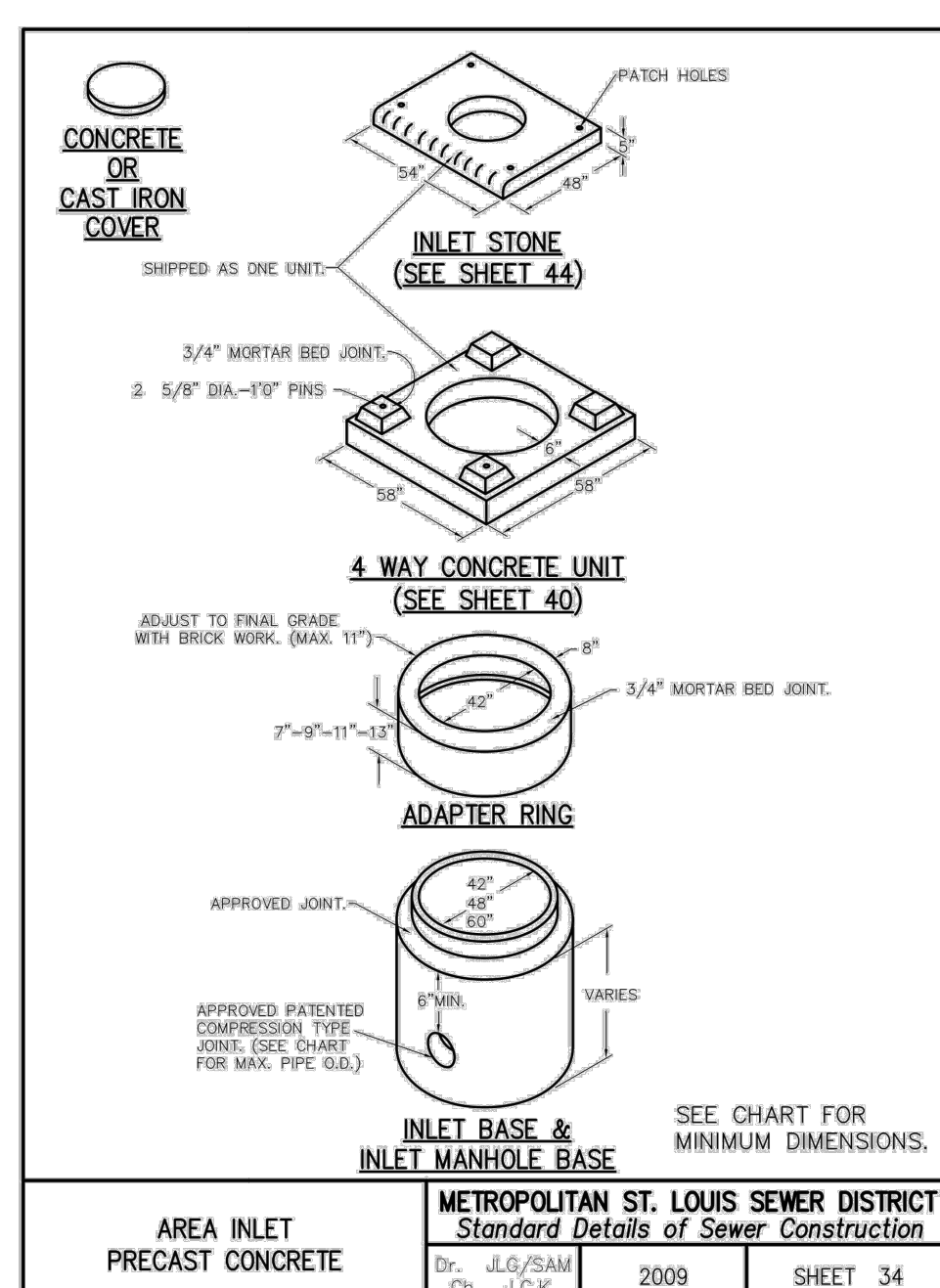
AREA INLET OPEN 4 SIDES BRICK CONSTRUCTION  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. R.C.M./J.C.K.  
Ch. J.C.K. 2009 SHEET 28



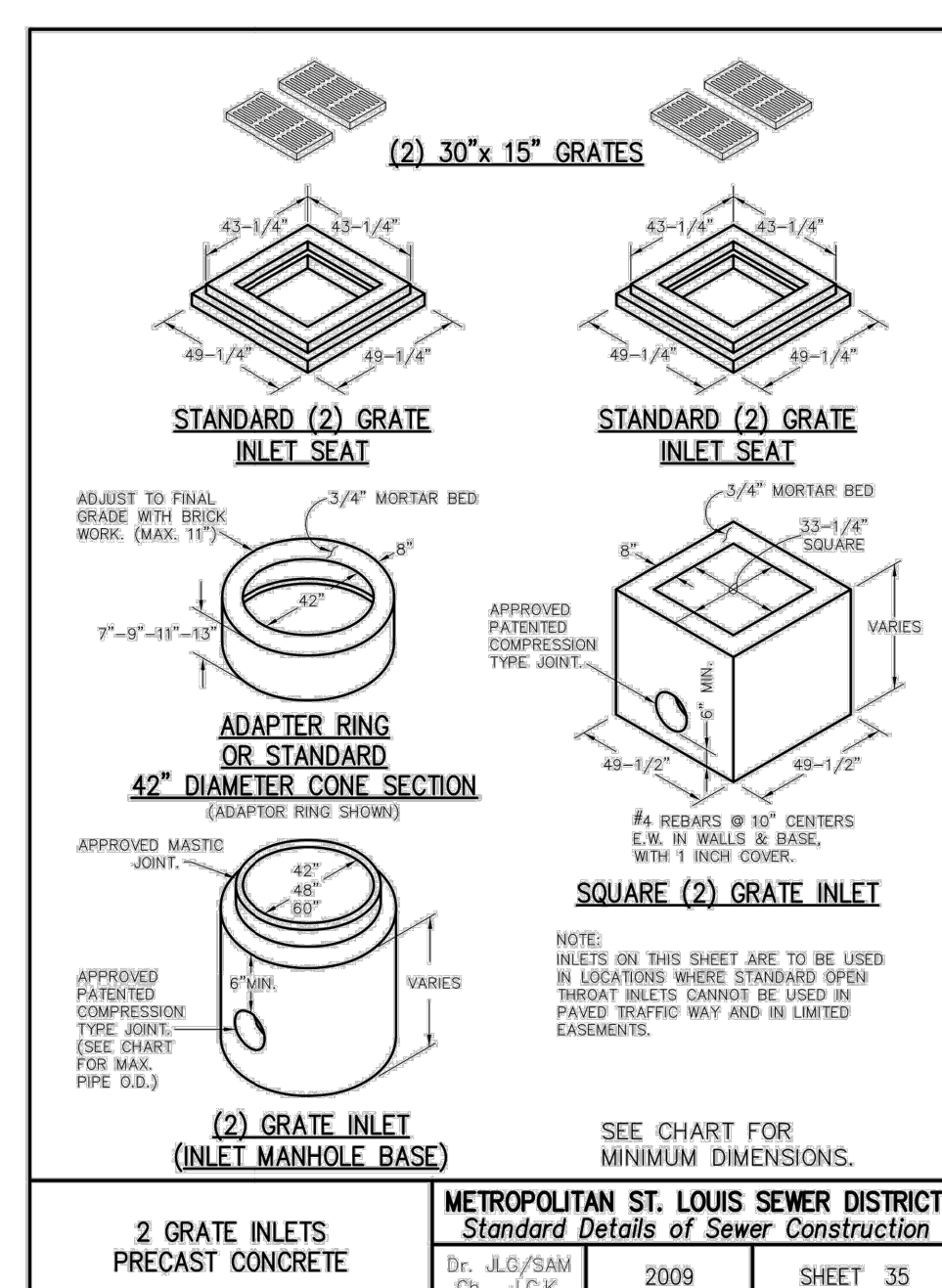
AREA INLET MANHOLE (12" THRU 24")  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. ROW/SAM  
Ch. J.C.K. 2009 SHEET 29



GRATE SEAT FOR 2 GRATE INLET WITH SIDE INTAKE  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. WESH/SAM  
Ch. P.W.S. 2014 SHEET 32 (REVISED)



AREA INLET PRECAST CONCRETE  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. J.G./SAM  
Ch. J.C.K. 2009 SHEET 34



2 GRATE INLETS PRECAST CONCRETE  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
Standard Details of Sewer Construction  
Dr. J.G./SAM  
Ch. J.C.K. 2009 SHEET 35

**PROJECT TITLE:**  
THORNWOOD APARTMENTS  
THORNBUARY CROSSING DRIVE  
OF FALLON, MO 63366

**ENGINEERING PLANNING SURVEYING**  
221 Point West Blvd.  
St. Charles, MO 63301  
636-928-5552  
FAX 636-928-1718

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I hereby certify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

REFERENCE DETAIL SHEET ONLY

NO.	REVISIONS

Box Engineering Company, Inc.  
Missouri State Certificate of Authority  
Engineering #000555  
Missouri State Certificate of Authority  
Surveying #000144

**Developer / Owner:**  
MRS TROMBONE LLC  
1100 WOODCHASE LANE  
CHESTERFIELD, MO 63071  
314-469-0029

**DETAILS**

**P-T-Z No.** 23-010426  
**Approval Date:** 1-4-24  
**City No.** #  
**Page No.** 22 of 34