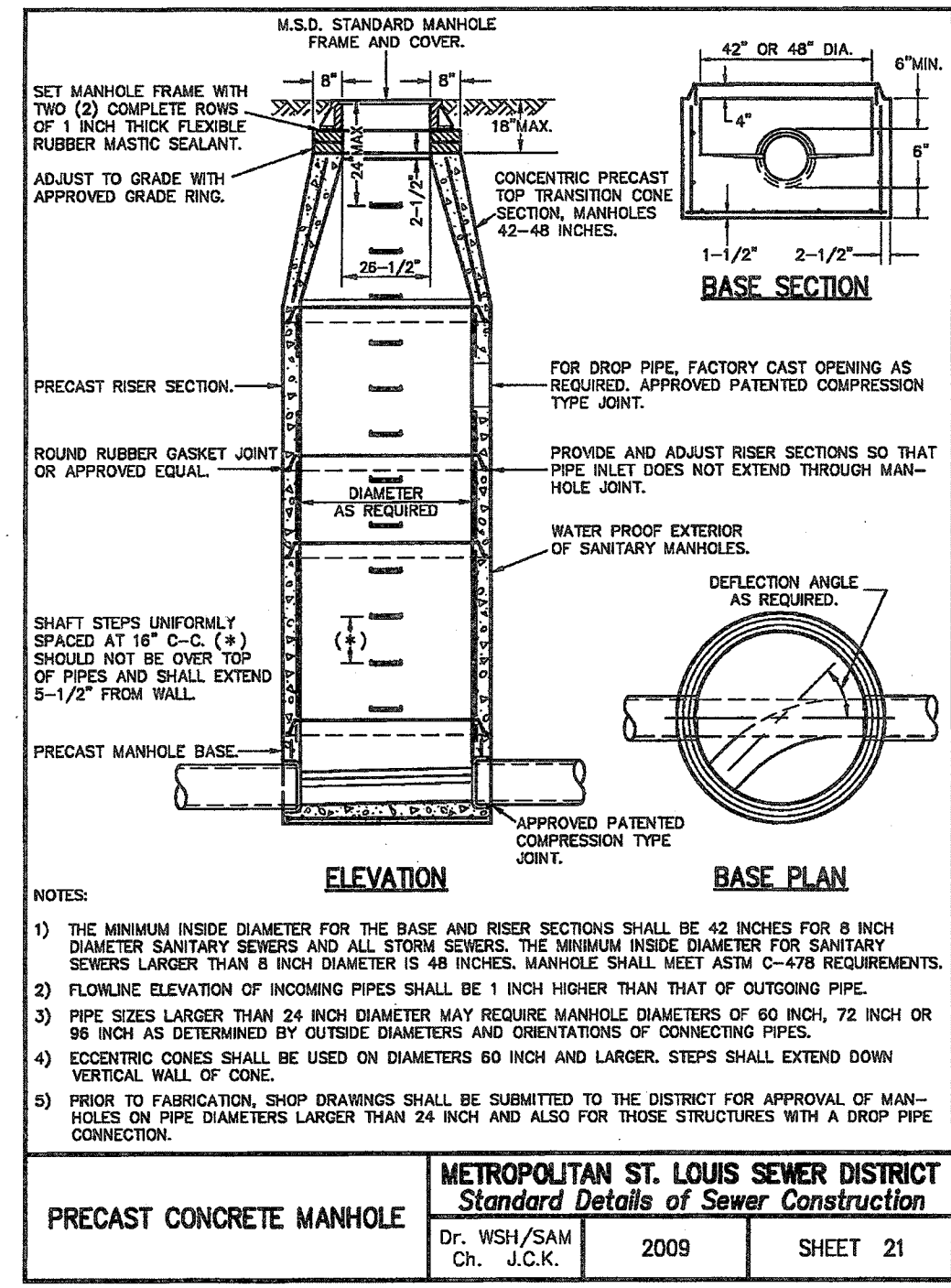


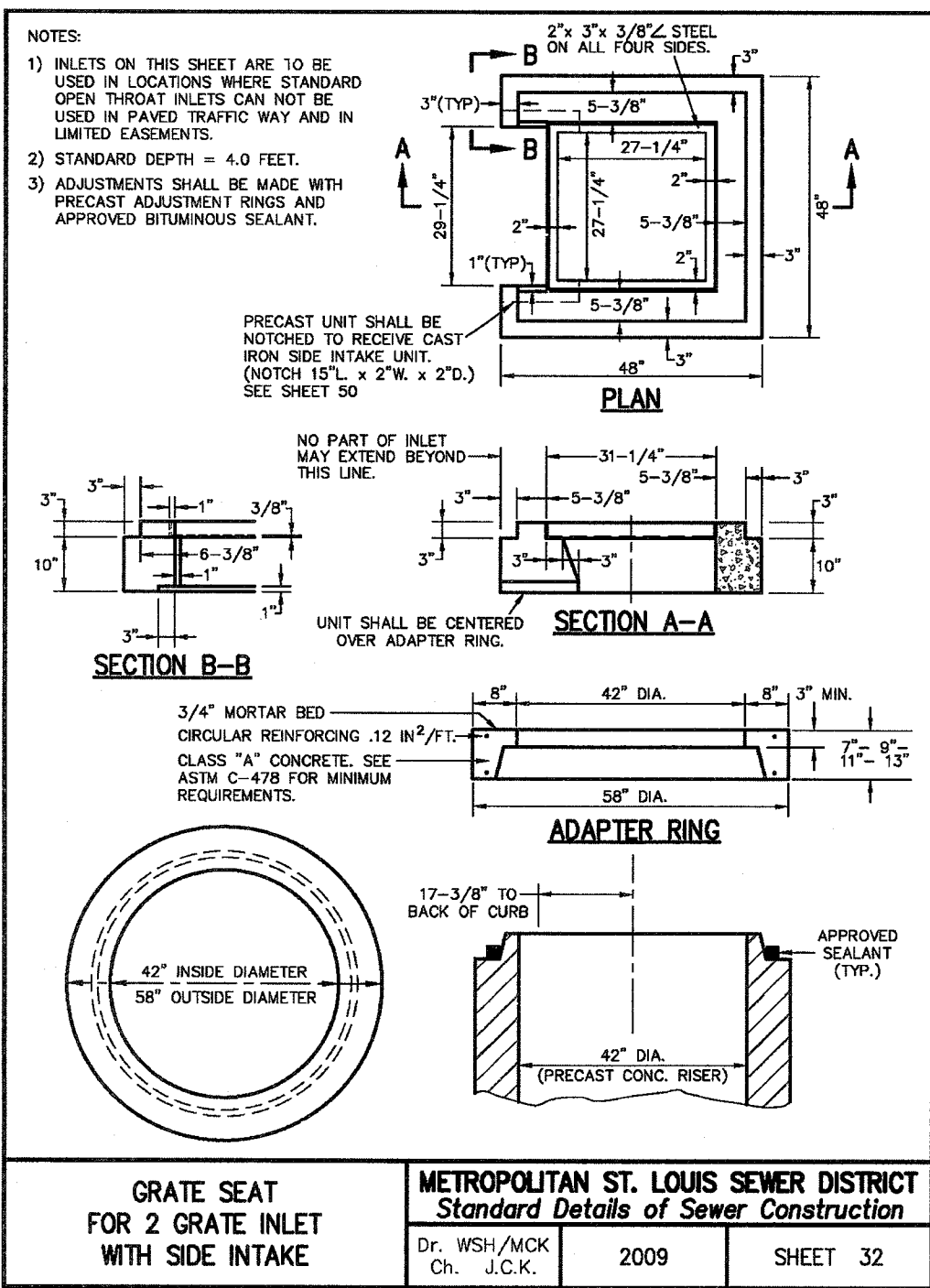
ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
INSIDE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CONCRETE ENCASMENT (CU. FT. PER FT.)	INSIDE DIMENSIONS OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CONCRETE ENCASMENT (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	5.55				
18	36	3.00	5.77	14 x 23	41	3.42	5.94
21	39	3.25	6.61				
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	4.08	8.30	24 x 38	58	4.83	9.70
33	51	4.42	10.53	27 x 42	62	5.17	10.71
36	54	4.67	11.43	29 x 45	66	5.50	11.72
DISCONTINUED							
39	63	5.25	13.38	34 x 53	71	5.92	13.14
42	66	5.63	15.87	38 x 60	83	6.92	16.18
45	77	6.42	18.15	43 x 68	92	7.67	18.81
48	84	7.00	20.73	48 x 76	101	8.42	21.59
51	91	7.58	23.45	53 x 83	109	9.08	24.35
54	98	8.17	26.37	58 x 91	118	9.83	27.45
57	105	8.75	29.39	63 x 98	126	10.50	30.50
60	112	9.33	32.57	68 x 106	135	11.25	33.91
63	119	9.92	35.90	72 x 113	143	11.92	36.99
66	126	10.50	39.37	77 x 121	152	12.67	40.69
69	133	11.08	42.99	82 x 128	160	13.33	44.45
72	140	11.67	46.75	87 x 136	168	14.00	47.79
75	147	12.25	50.66	92 x 143	176	14.67	51.70
78	154	12.83	54.72	97 x 151	185	15.42	56.01
81	161	13.42	58.92				
84	168	14.00	63.27	106 x 168	202	16.83	64.48
87	182	15.17	72.40	116 x 180	218	18.17	73.59

TABLE 1
PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE

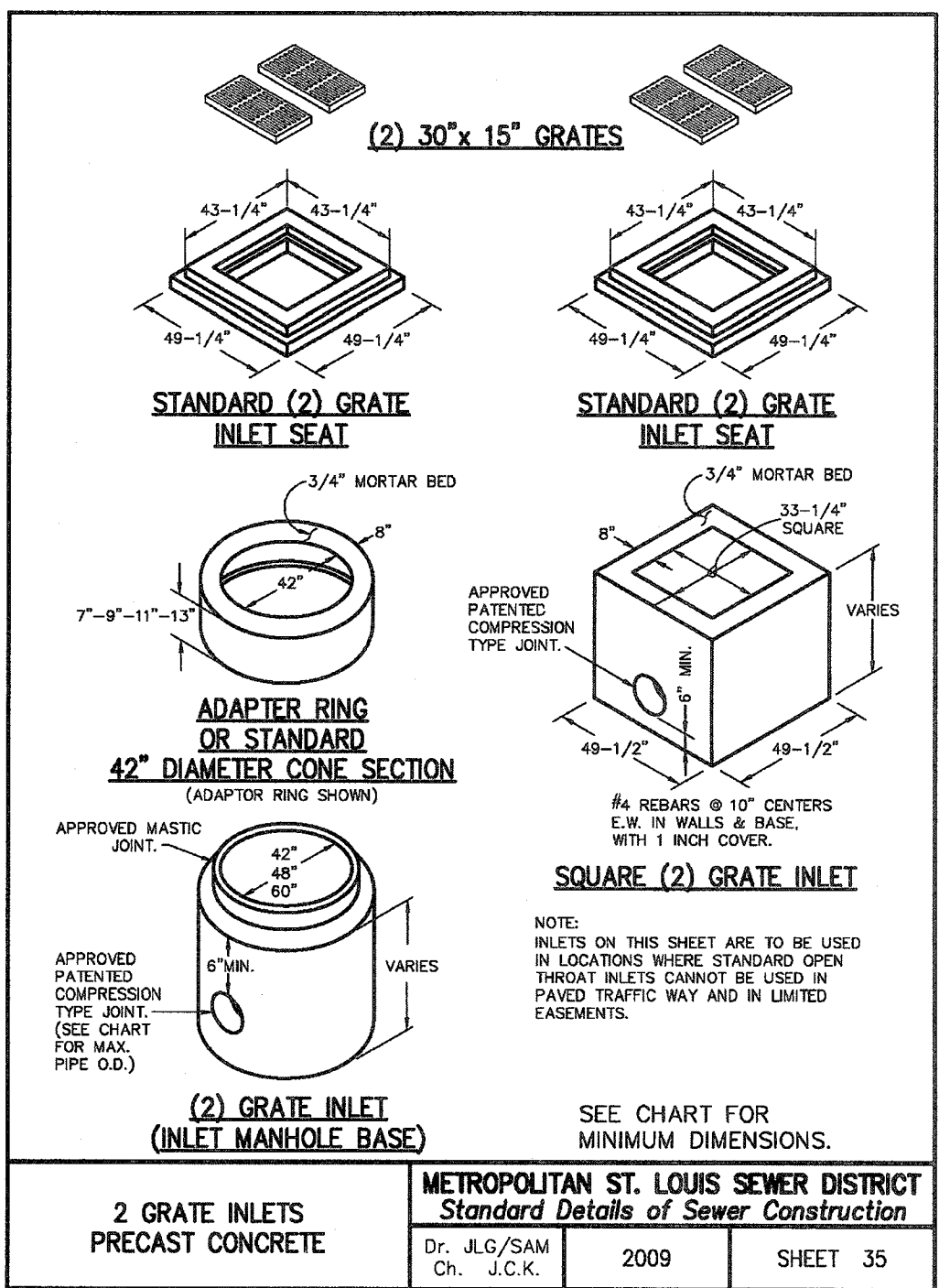
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. B.E.B. Ch. J.C.K. 2009 SHEET 1



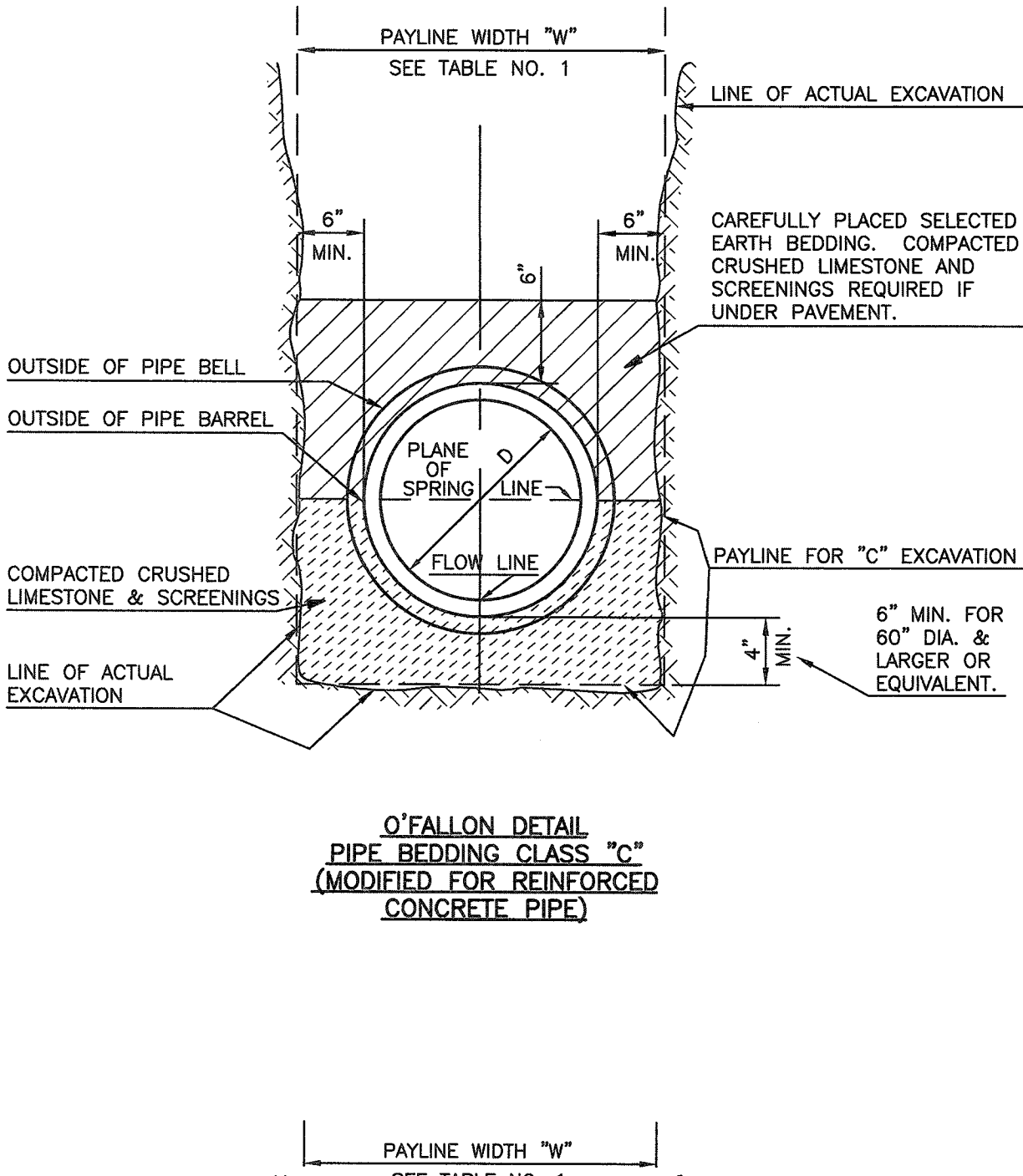
PRECAST CONCRETE MANHOLE
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. WSH/SAM Ch. J.C.K. 2009 SHEET 21



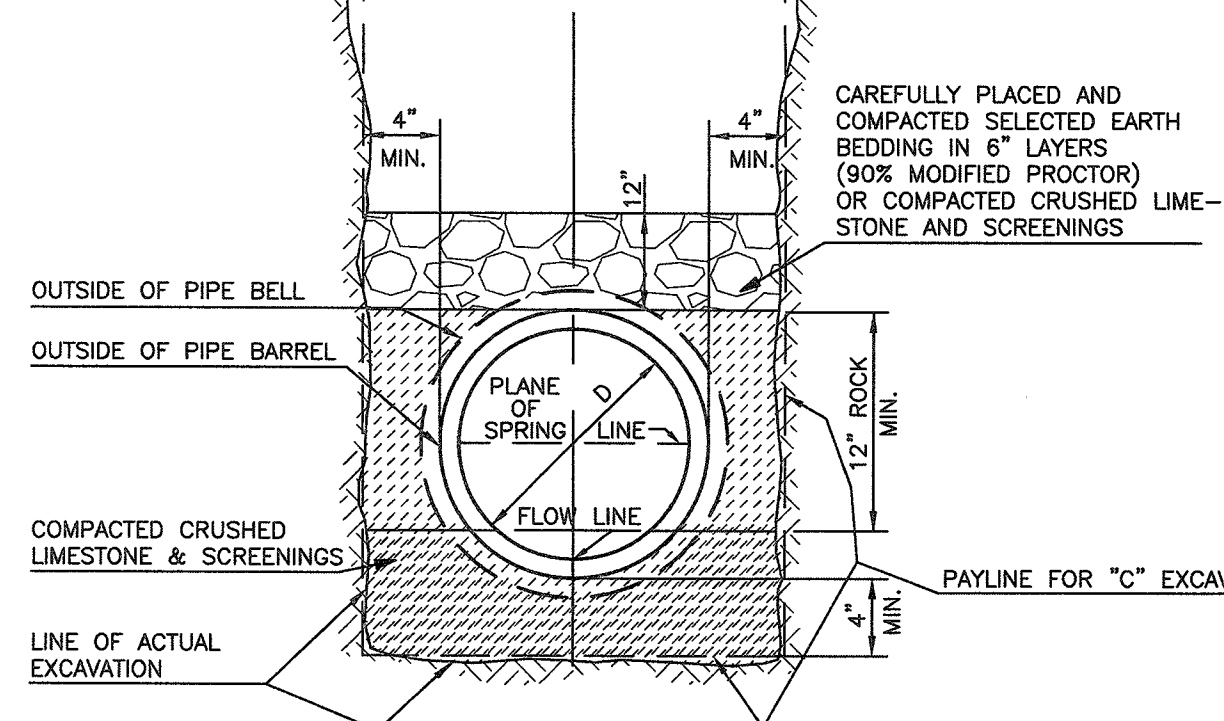
GRATE SEAT FOR 2 GRATE INLET WITH SIDE INTAKE
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. WSH/SAM Ch. J.C.K. 2009 SHEET 32



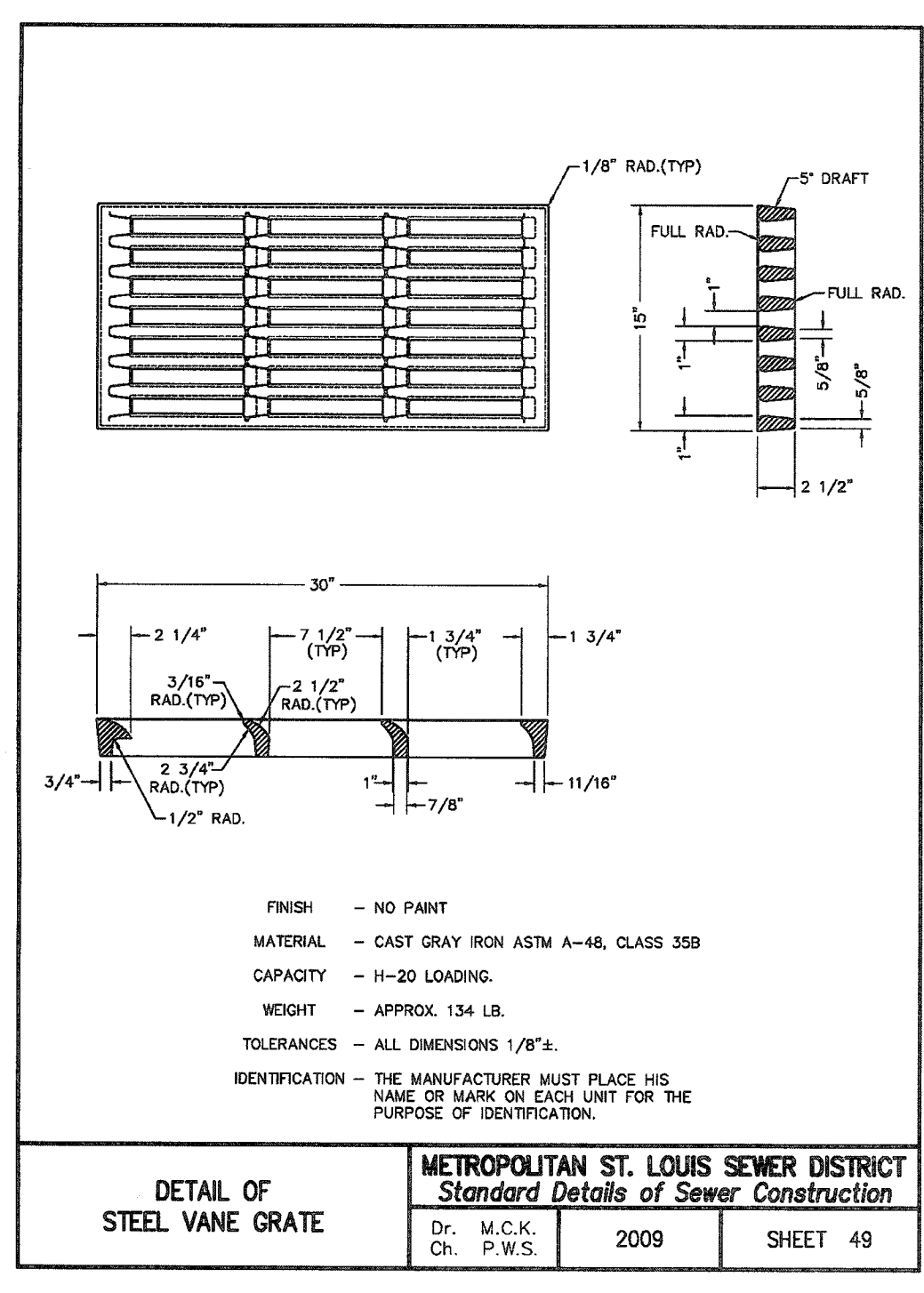
2 GRATE INLETS PRECAST CONCRETE
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. J.G./SAM Ch. J.C.K. 2009 SHEET 35



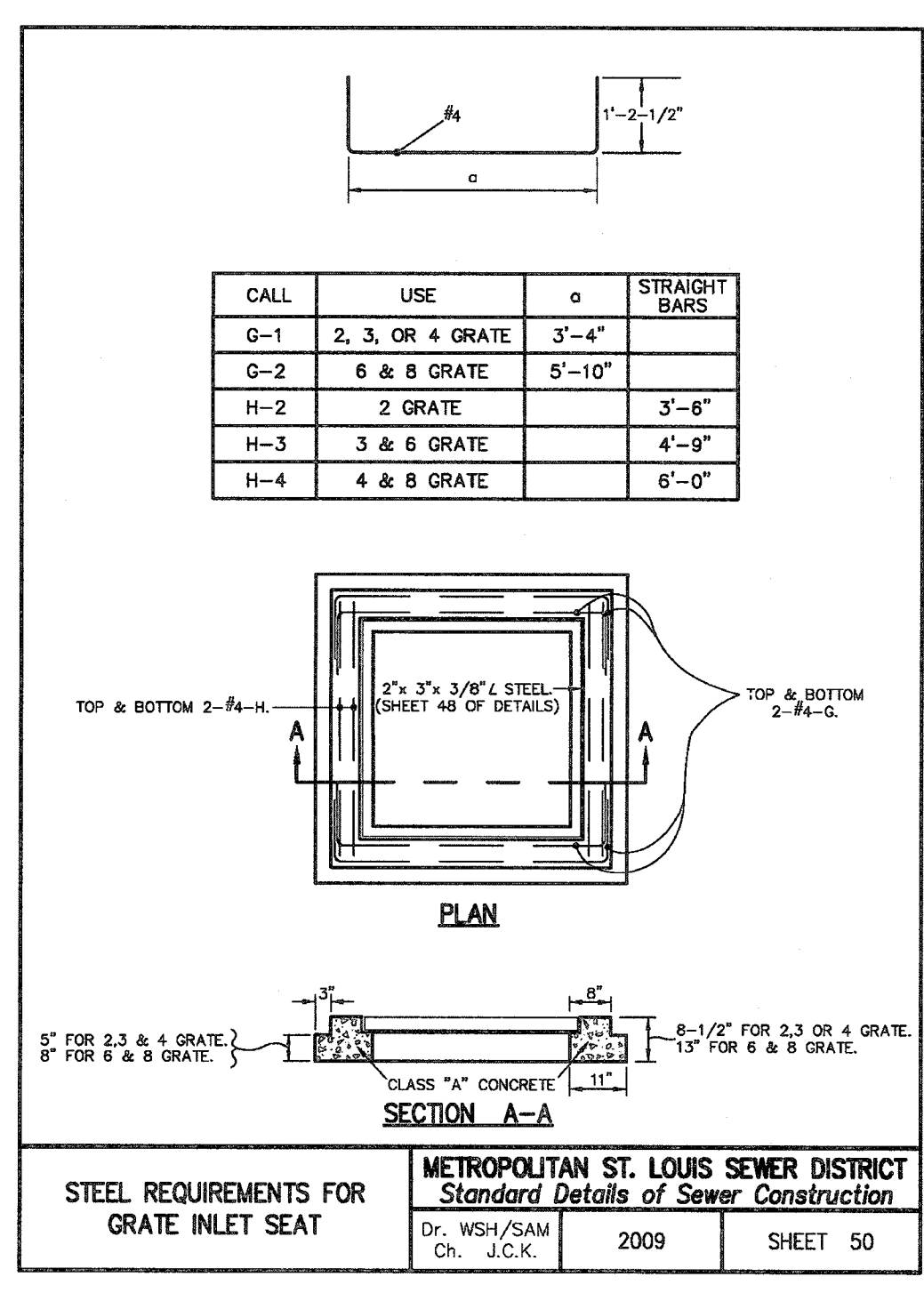
O'FALLON DETAIL
PIPE BEDDING CLASS "C"
(MODIFIED FOR REINFORCED CONCRETE PIPE)



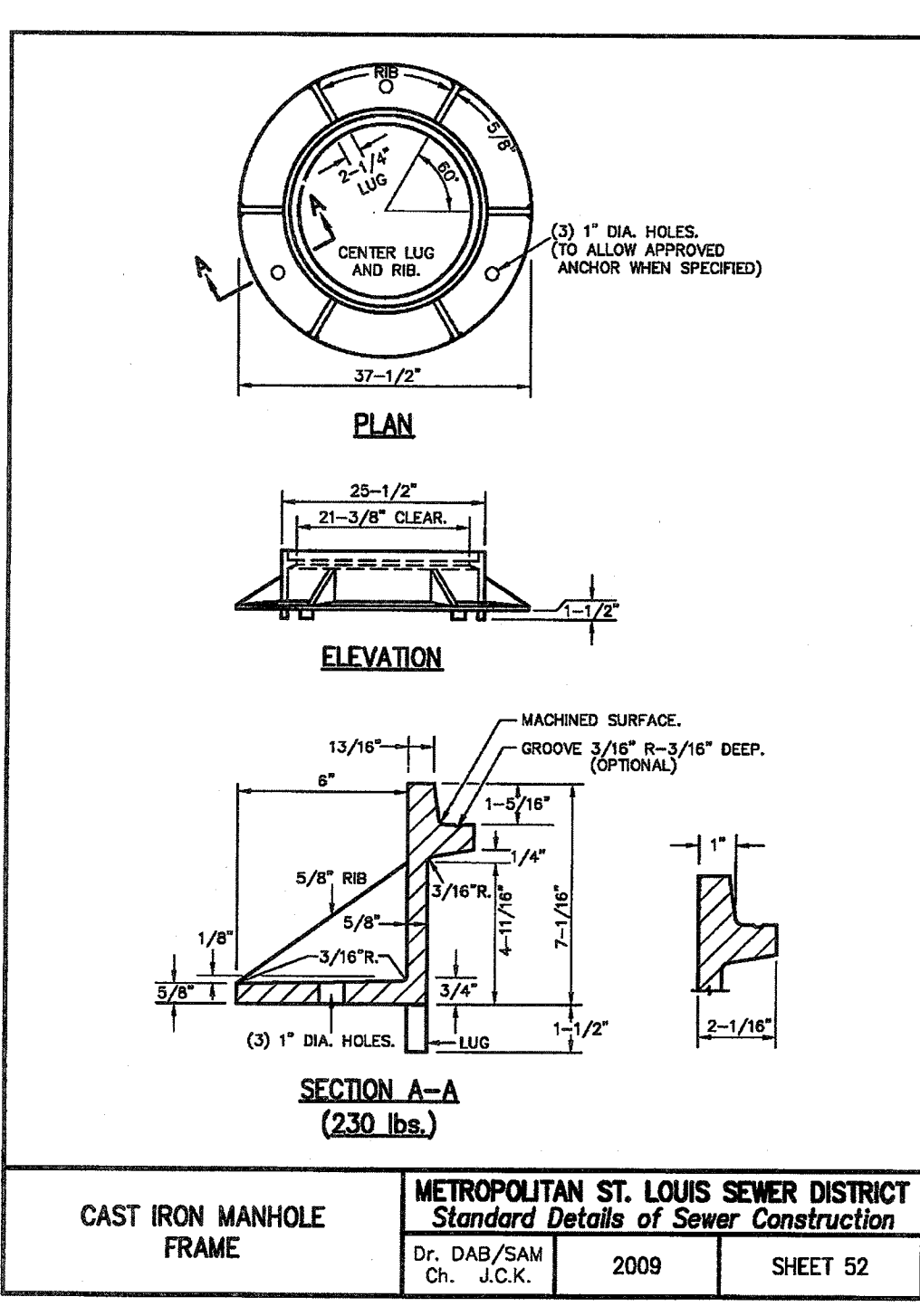
PIPE BEDDING CLASS "C"
(FOR ALL PIPE EXCEPT REINFORCED CONCRETE PIPE)



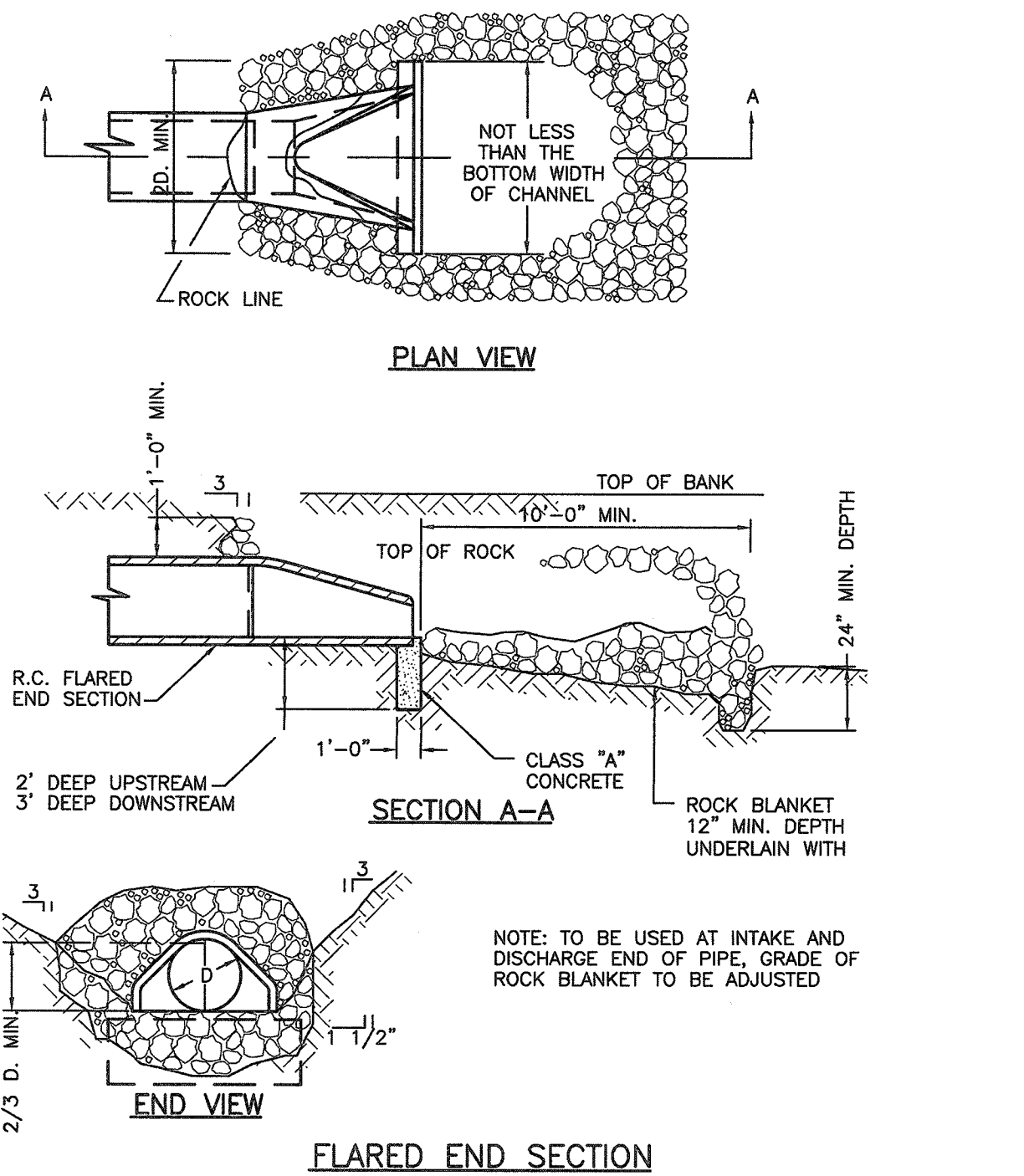
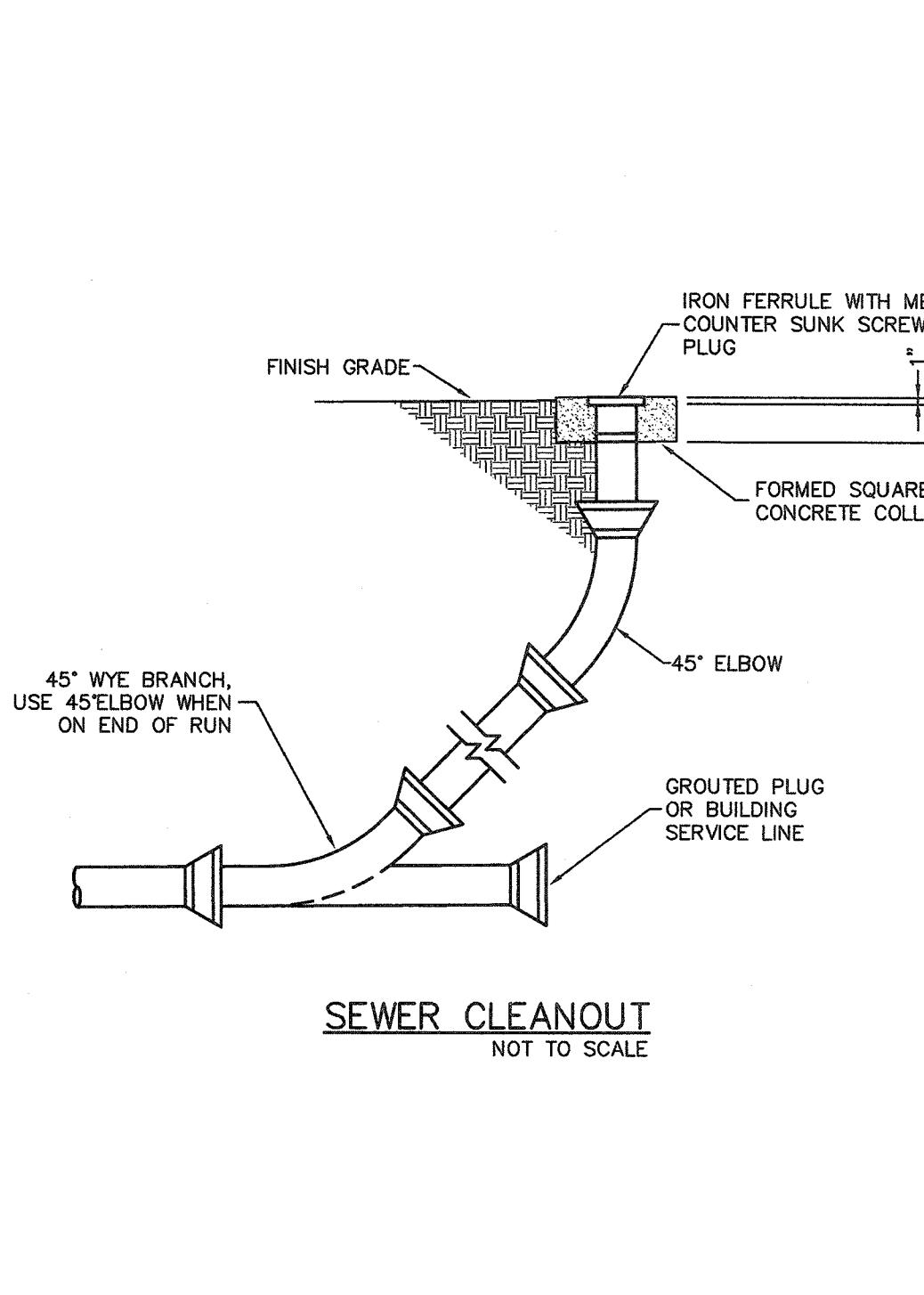
DETAIL OF STEEL VANE GRATE
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. M.C.K. Ch. P.W.S. 2009 SHEET 49



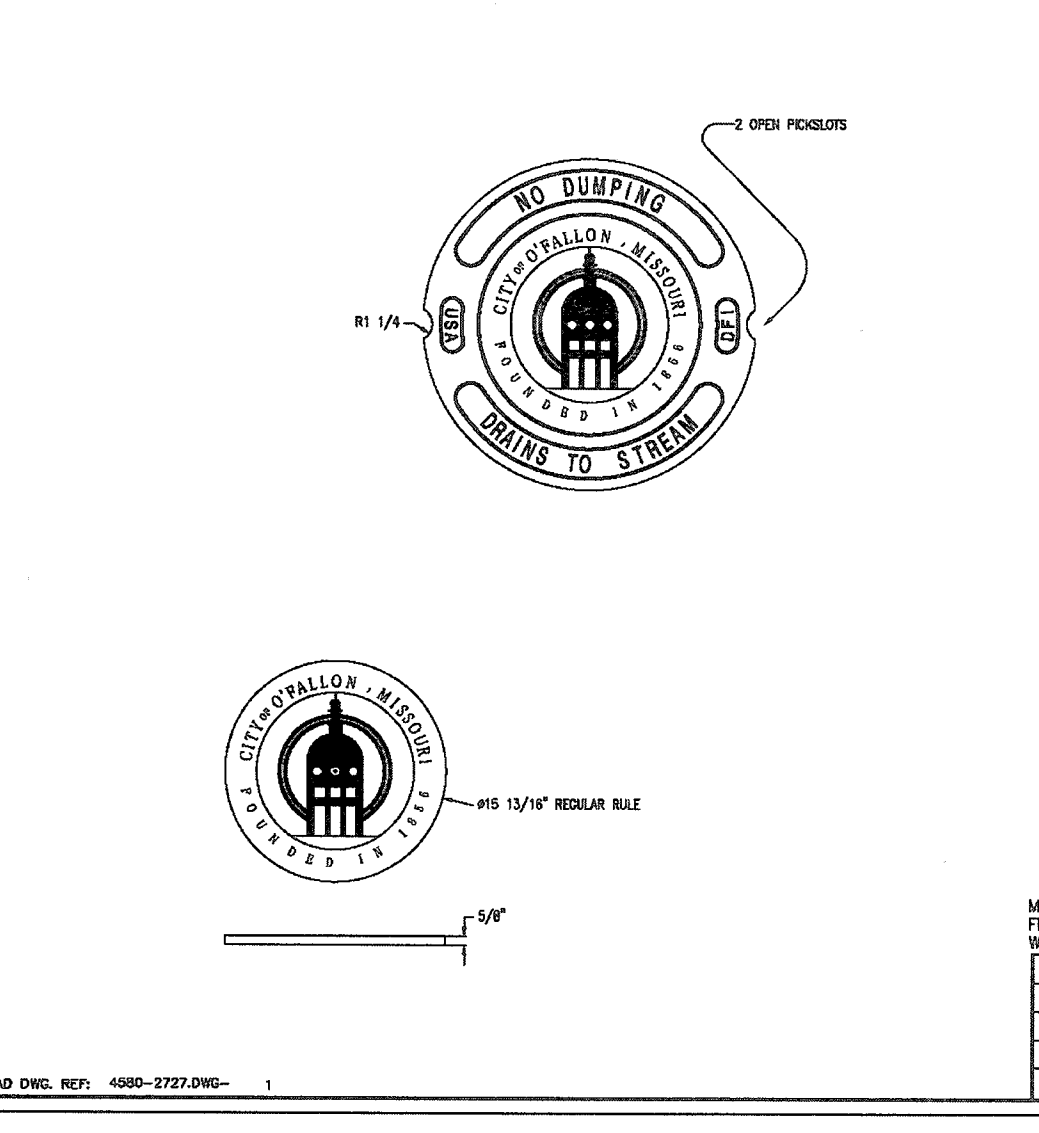
STEEL REQUIREMENTS FOR GRATE INLET SEAT
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. WSH/SAM Ch. J.C.K. 2009 SHEET 50



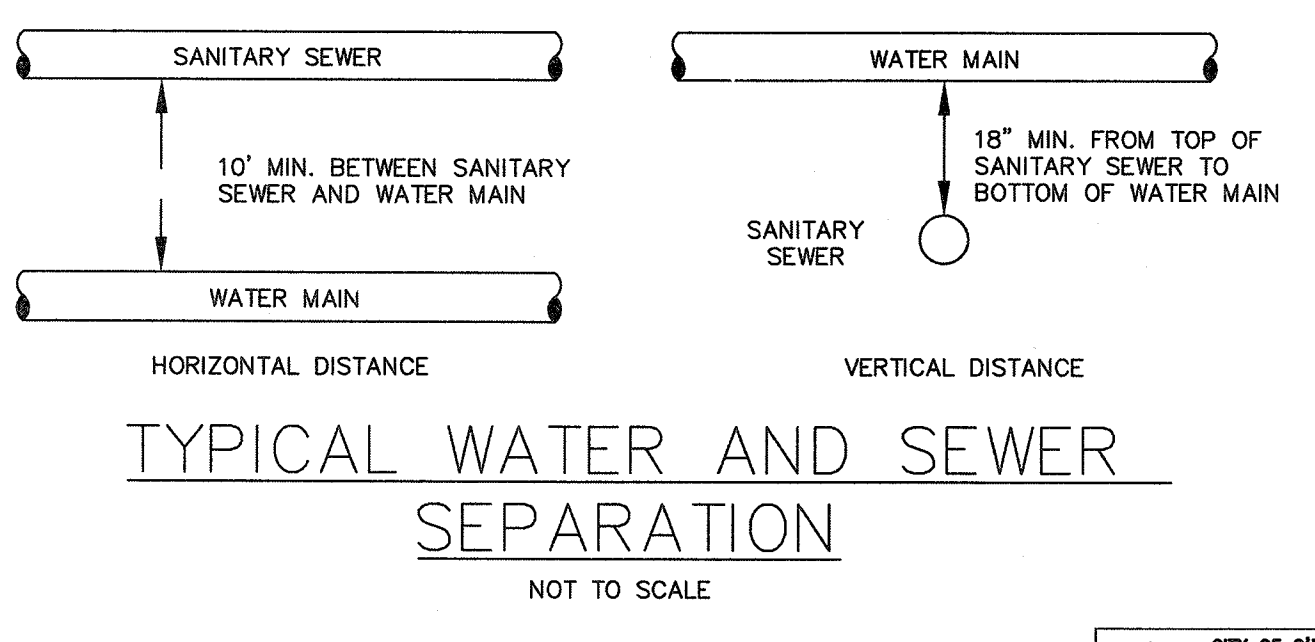
CAST IRON MANHOLE FRAME
METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. DAB/SAM Ch. J.C.K. 2009 SHEET 52



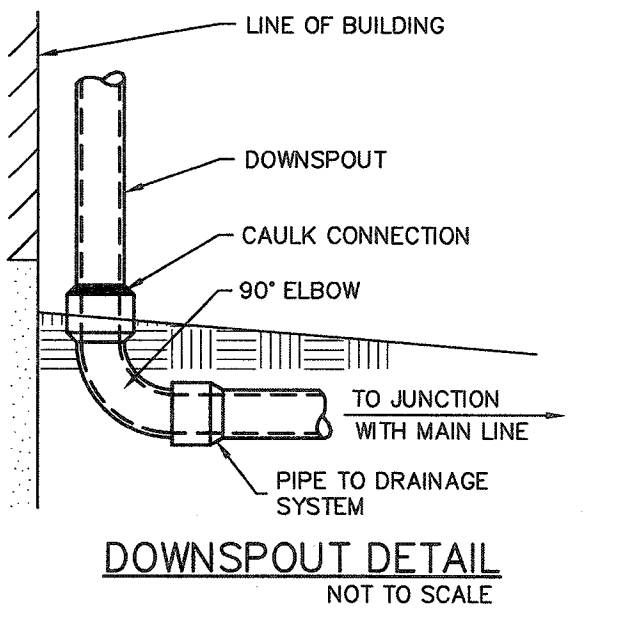
FLARED END SECTION



MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 350
FINISH: NO PAINT UNLESS SPECIFIED ON PURCHASE ORDER
WEIGHT: 85 LBS.
DR. KRH REV. DATE: 4/5/01
MFG. BY: NENAH FOUNDRY
DATE: 11/21/2013
NENAH FOUNDRY
1100 N. WASHINGTON ST.
MOUNTAIN VIEW, MISSOURI 64061
PHONE: 816-288-2100
FAX: 816-288-2101
NF-4580-272B

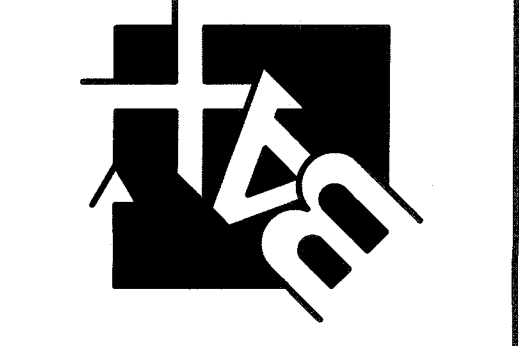


CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI
WATER AND SEWER SEPARATION DETAIL



PROJECT TITLE:
Construction Plans for
Lou Fusz Jeep
3470 Highway K
O'Fallon, MO 63368

ENGINEERING
PLANNING
SURVEYING
221 Point West Blvd.
St. Charles, MO 63301
636-928-5562
FAX 636-928-1718



DISCLAIMER OF RESPONSIBILITY
I hereby specify that the documents intended to be authorized by my seal are limited to this project, 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.

LARRY D. WELSER
Professional Engineer
Missouri State Certificate of Authority #000655
Surveying #000144
07/25/17
Larry D. Welser
Civil Engineer
Engineers License No. 2007020343
Box Engineering Company, Inc.
Missouri State Certificate of Authority #000655
Surveying #000144

REVISIONS

NO.	DATE	DESCRIPTION
06-23-17		CITY COMMENTS
06-28-17		MODOT COMMENTS
07-20-17		CITY COMMENTS

Developer / Owner:
Lou Fusz Chrysler
3480 Highway K
O'Fallon, Missouri 63368
636-442-8100

P+Z No. #00-16.05.01
Approved 02-02-17
City No. #
Page No.

11 of 13

ENGINEER SEAL DOES NOT APPLY TO CITY OF O'FALLON AND MSD DETAILS