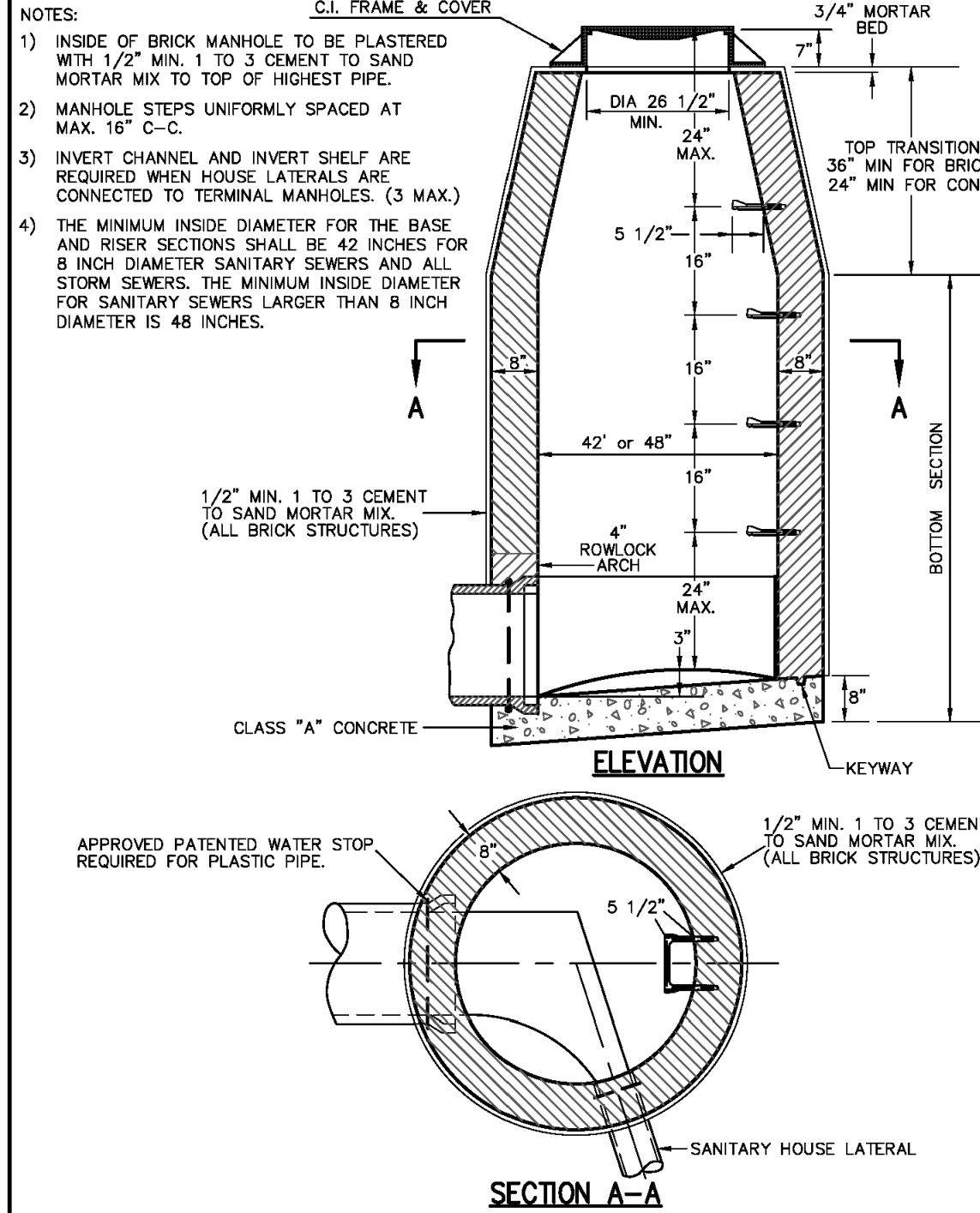
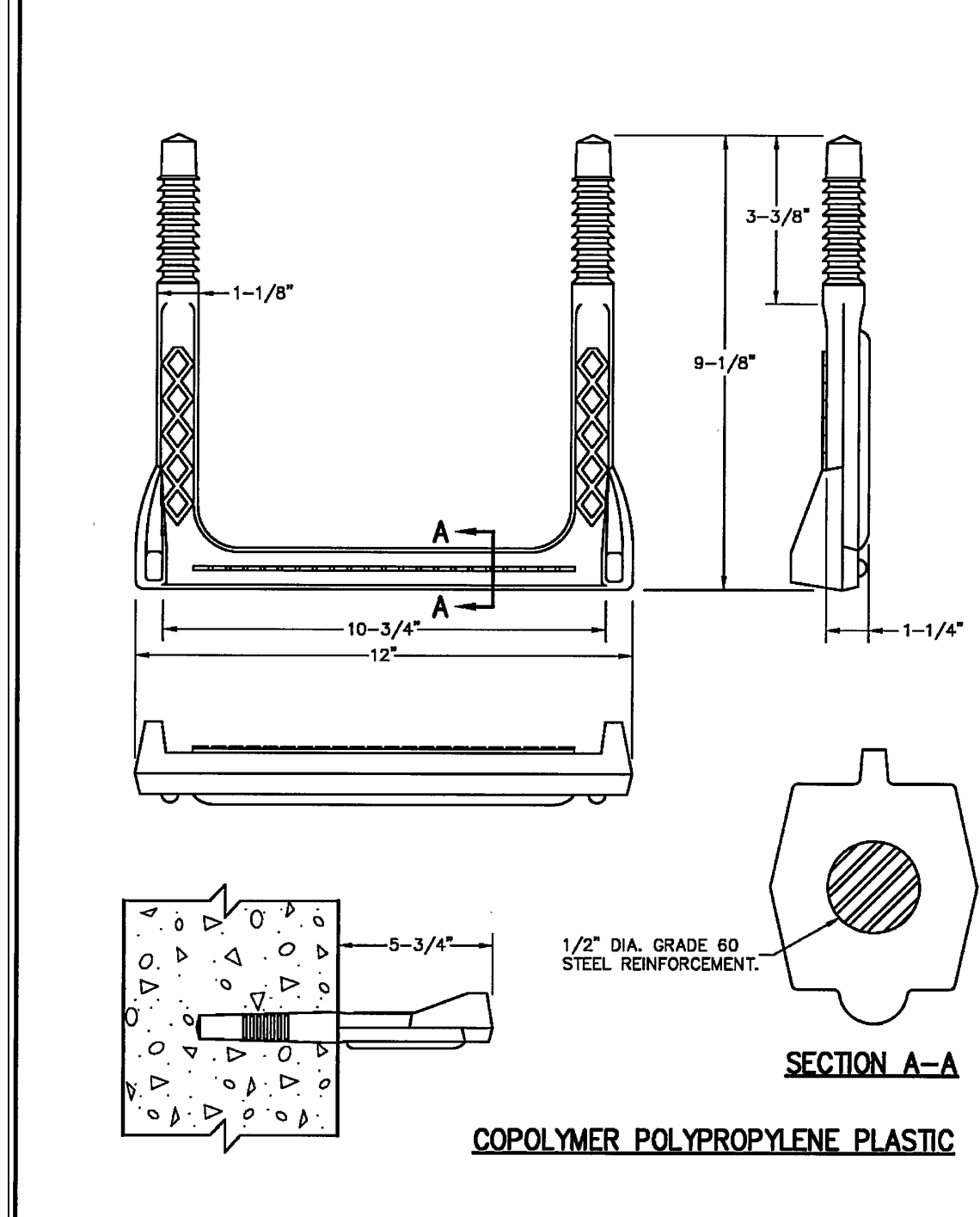


NOTES:  
 1) SET STANDARD INLET STONE IN 3/4" MORTAR BED AND DOWEL WITH 5/8" DIA. 1'-0" LONG PINS AND GROUT.  
 2) RAISE TO FINAL GRADE WITH COURSES OF BRICK AND SET THE UNIT TO BASE WITH 3/4" MORTAR BED.  
 3) THIS UNIT TO BE USED WITH 42 INCH I.D. BASE.  
 4) 5000 P.S.I. CONCRETE IS REQUIRED.

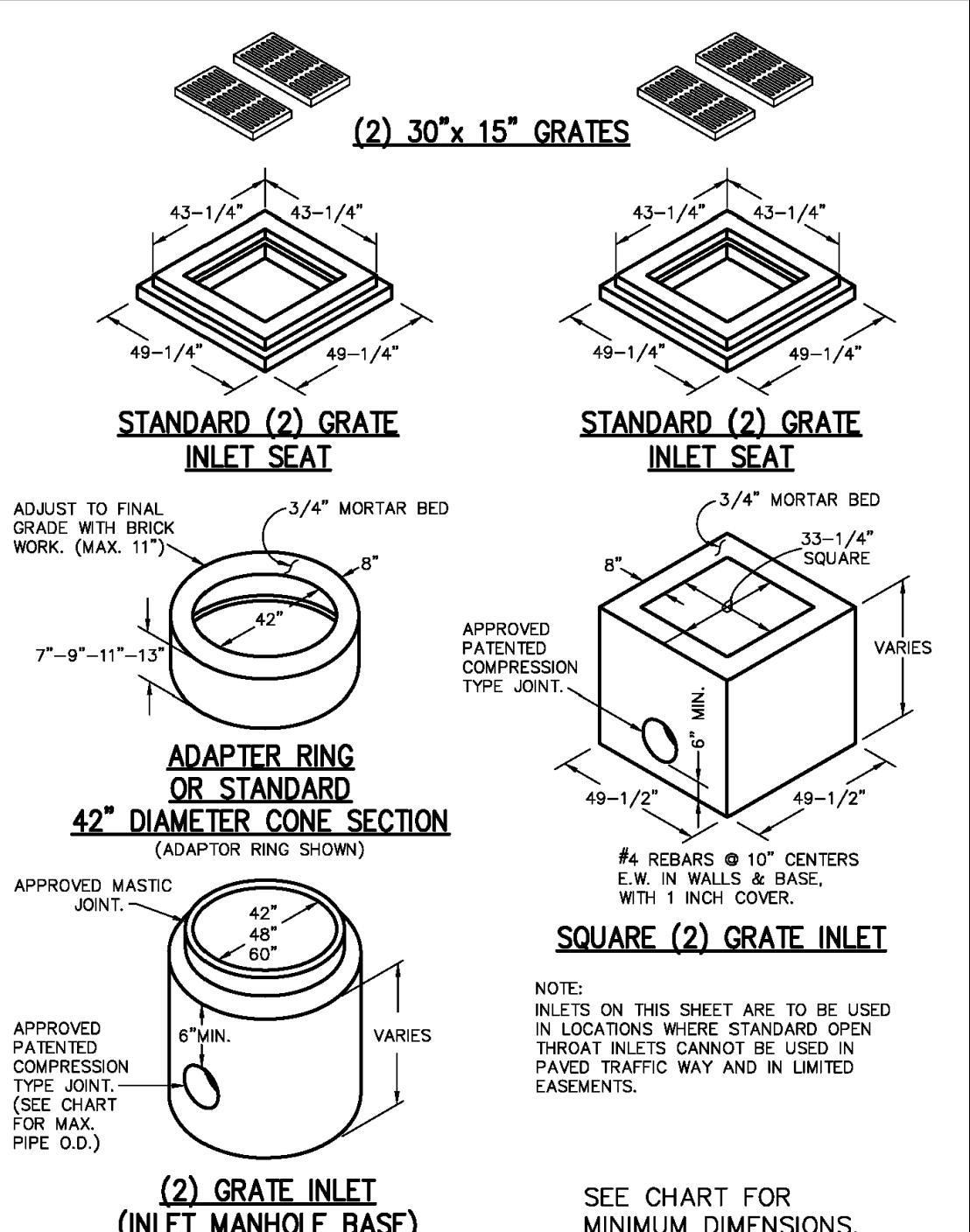
PRECAST CONCRETE UNIT FOR 4 WAY AREA INLET	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction	Dr. DAB/SAM Ch. J.C.K.	2009	SHEET 40
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TERMINAL MANHOLE	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction	Dr. WSH/SAM Ch. J.C.K.	2009	SHEET 20
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MANHOLE STEP FOR PRECAST & CAST-IN-PLACE MANHOLE	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction	Dr. D.A.B. Ch. J.C.K.	2009	SHEET 58
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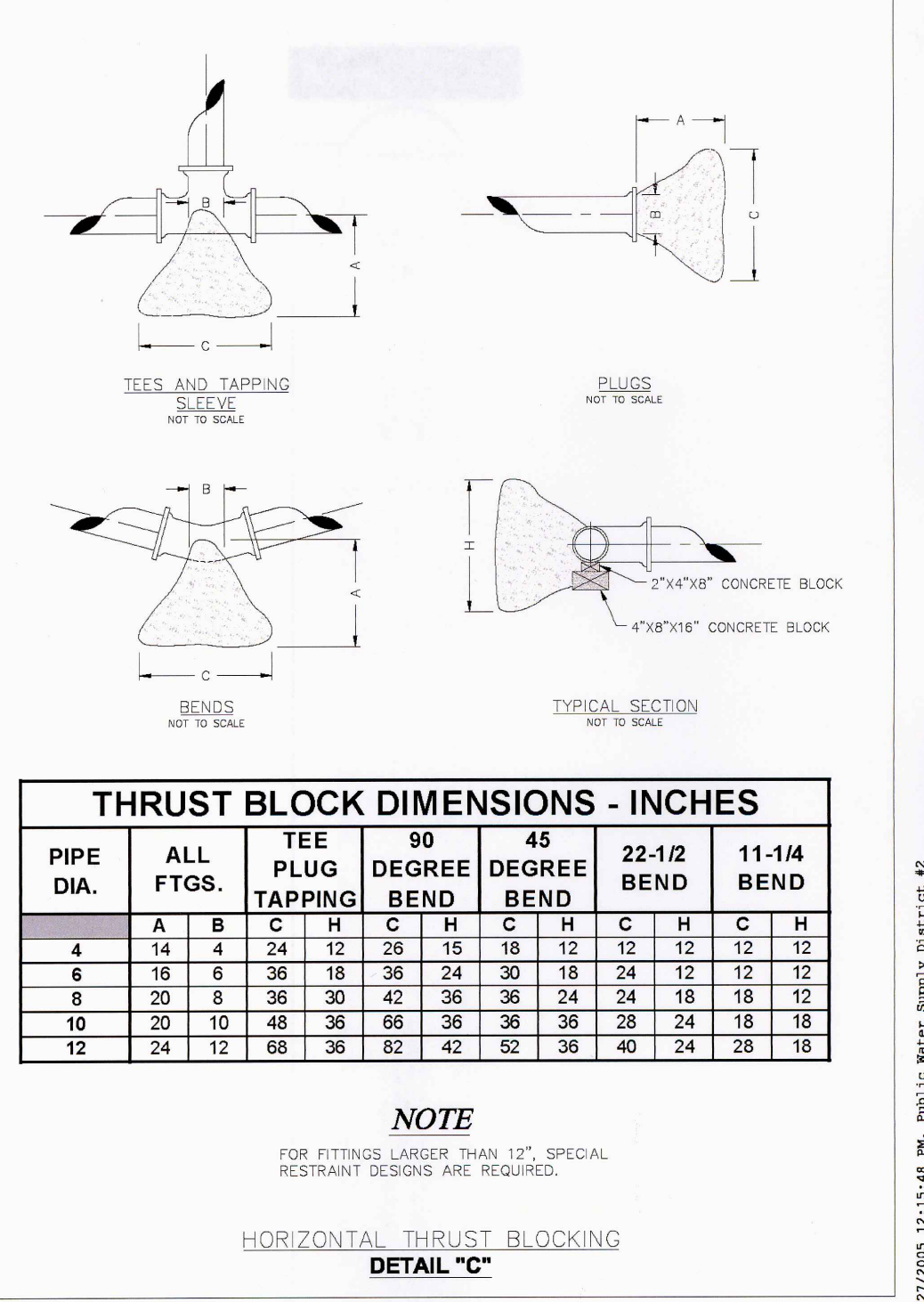


2 GRATE INLETS PRECAST CONCRETE	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction	Dr. JLG/SAM Ch. J.C.K.	2009	SHEET 35
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ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
INSIDE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT. CONCRETE ENCASMENT	INSIDE DIMENSIONS OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT. CONCRETE ENCASMENT
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	49	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	29 x 45	66	5.50	11.72
39	60	5.00	12.45	32 x 49	71	5.92	13.14
42	63	5.25	13.38	34 x 53	75	6.25	14.05
48	70	5.83	15.67	38 x 60	83	6.92	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	35.90	72 x 113	143	11.92	36.99
96	126	10.50	39.37	77 x 121	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	102 x 159	194	16.17	60.72
132	168	14.00	63.27	106 x 166	202	16.83	64.48
144	182	15.17	72.40	116 x 180	218	18.17	73.59

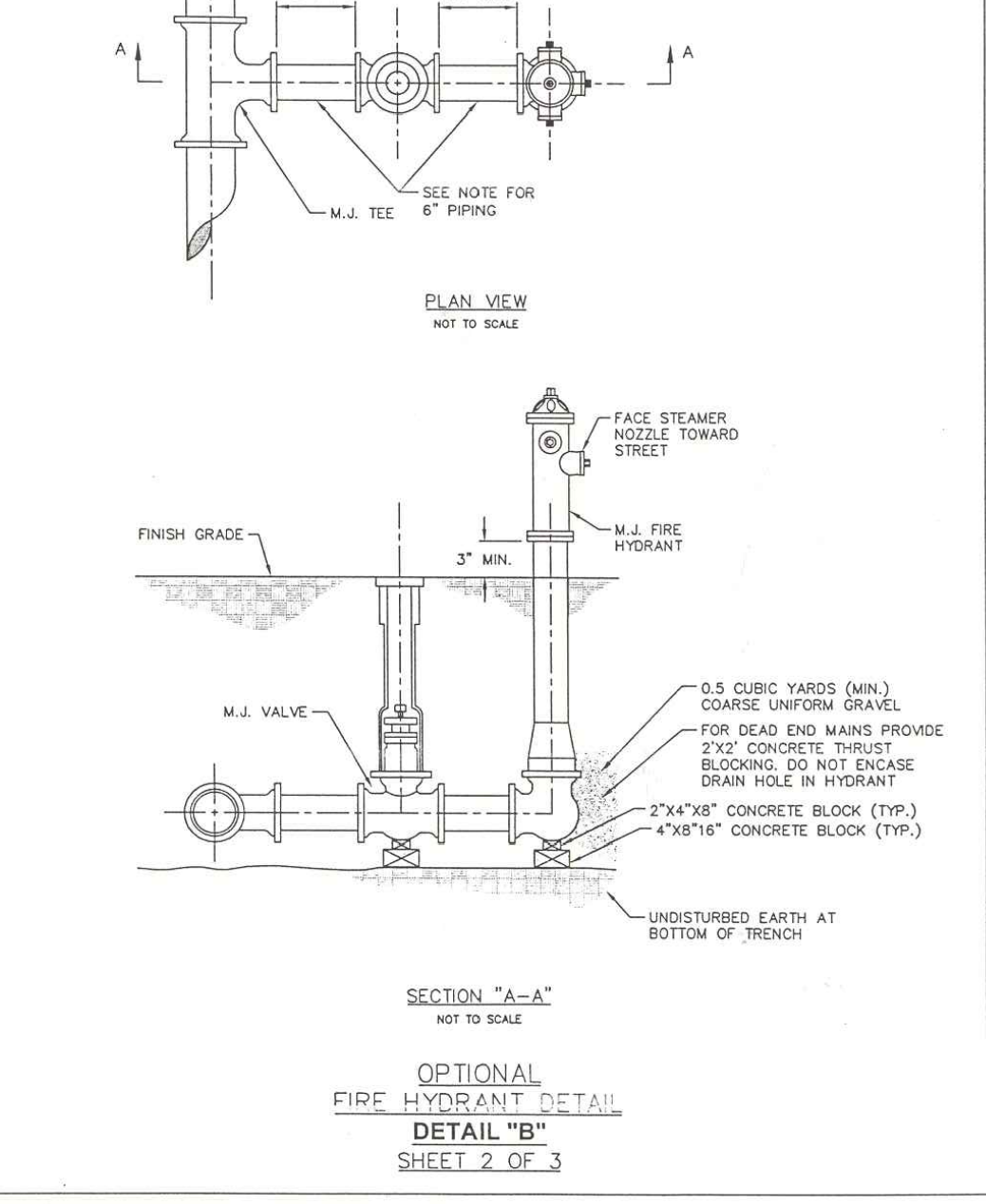
TABLE 1 PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction	Dr. B.E.B. Ch. J.C.K.	2009	SHEET 1
--------------------------------------------------------------------	---------------------------------------------------------------------------------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

Manufacturer	Size	Adhesive	Style	Message (Part #)	Website
ACP International	3 7/8"	Epoxy	Crystal Cap	No Dumping Drains To Waterways (SD-W-CC)	www.acpinternational.com
DAS Manufacturing, Inc.	4"	Epoxy	Standard	No Dumping Drains To Stream (#SDS)	www.dasmanufacturing.com

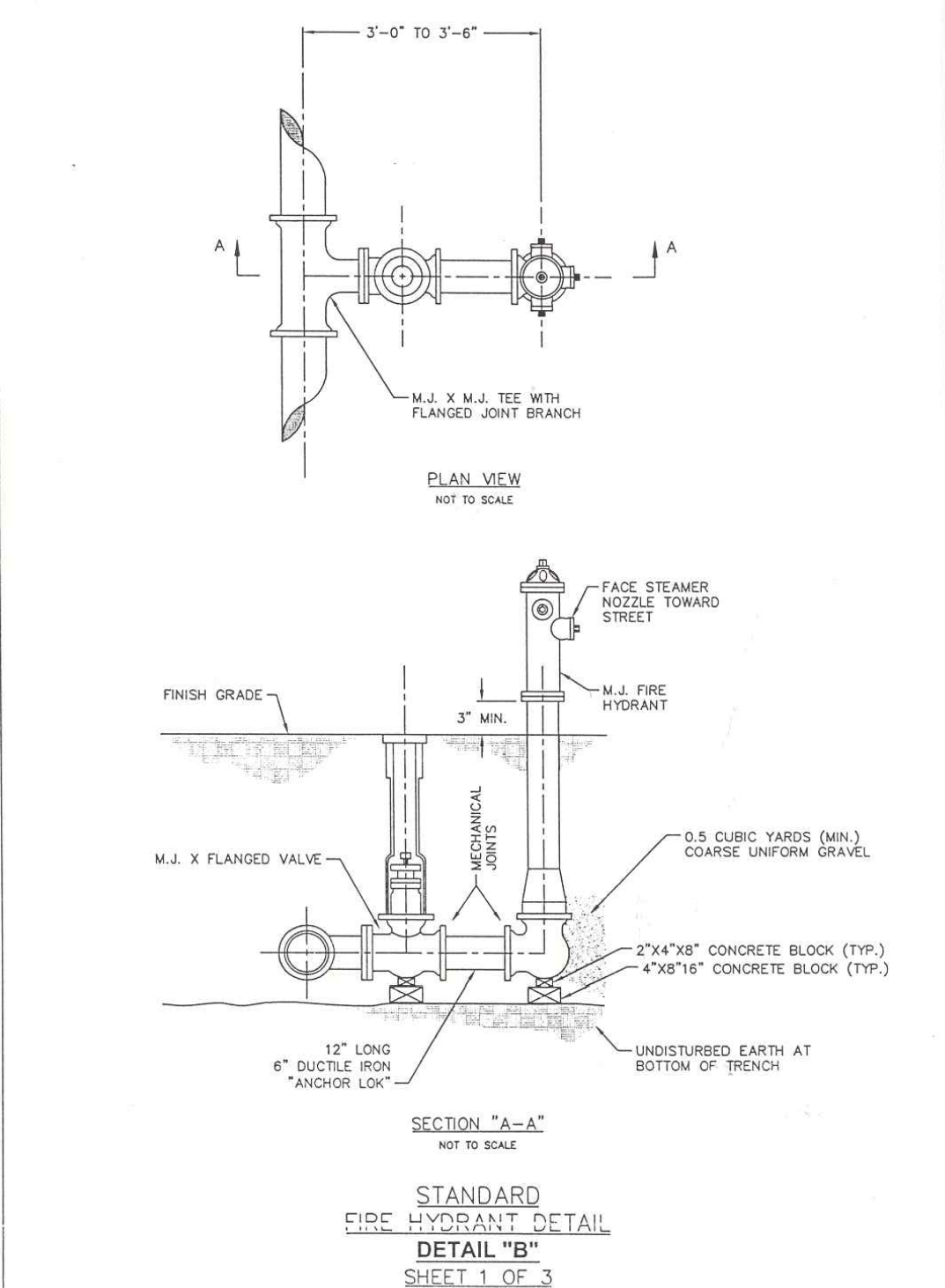


THRUST BLOCK DIMENSIONS - INCHES											
PIPE DIA.	ALL FTGS.			90 DEGREE BEND			45 DEGREE BEND			11-1/4 BEND	
	A	B	C	H	C	H	C	H	C	H	
4	14	4	24	12	29	15	18	12	12	12	12
6	18	6	36	18	36	24	30	18	24	12	12
8	20	8	36	30	42	36	36	24	24	18	18
10	20	10	48	36	66	36	36	36	28	24	18
12	24	12	68	36	82	42	52	36	40	24	18

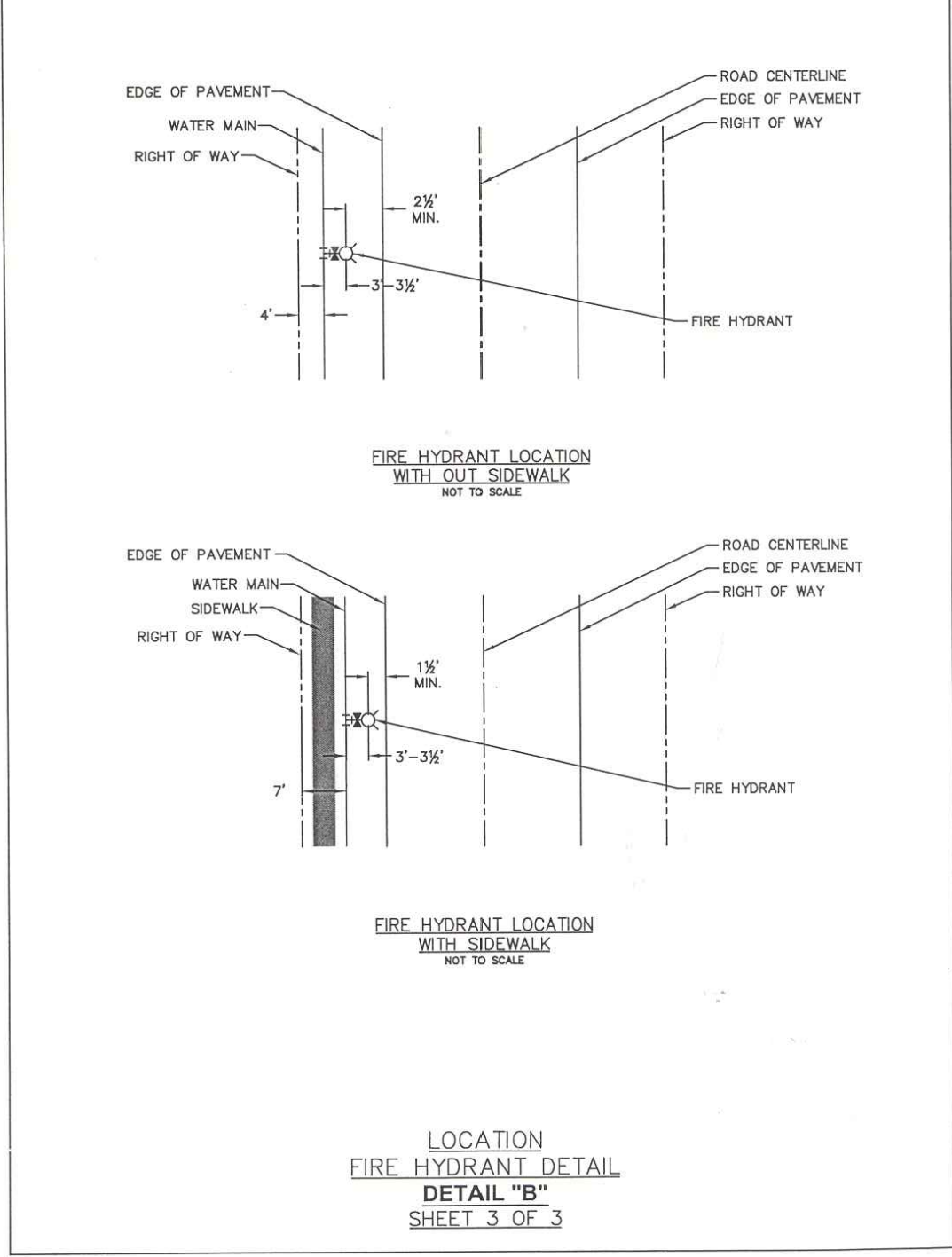
NOTE  
 FOR FITTINGS LARGER THAN 12", SPECIAL RESTRAINT DESIGNS ARE REQUIRED.



LOCATION FIRE HYDRANT DETAIL "B" SHEET 3 OF 3
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STANDARD FIRE HYDRANT DETAIL "B" SHEET 1 OF 3
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LOCATION FIRE HYDRANT DETAIL "B" SHEET 3 OF 3
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PIPE SIZE	DEGREE BEND	DOWN BENDS			UP BENDS		
		W	H	L	W	H	L
4"	11 1/4°	18	12	18	12	12	12
	22 1/2°	18	18	24	12	12	12
	45°	18	18	30	12	12	18
6"	11 1/4°	24	18	18	12	12	12
	22 1/2°	24	18	24	12	12	12
	45°	24	18	48	12	12	18
8"	11 1/4°	24	18	24	12	12	18
	22 1/2°	24	18	42	12	12	24
	45°	24	18	48	18	12	24
10"	11 1/4°	30	24	24	18	18	18
	22 1/2°	30	24	42	18	18	24
	45°	30	24	72	18	18	36
12"	11 1/4°	30	24	30	18	18	18
	22 1/2°	30	24	54	18	18	30
	45°	30	36	72	24	18	36

DIMENSIONS FOR VERTICAL BENDS (IN INCHES) DETAIL "D" PAGE 2 of 2

PROJECT TITLE:  
 Lou Fusz Building Additions  
 Highway K  
 O'Fallon, MO

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

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 2007020343  
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REVISIONS
01/18/2024 CITY/UTILITY REVIEW
02/08/2024 CITY COMMENTS

Developer / Owner:  
 Lou Fusz Properties, LLC  
 1 Athletic Dr.  
 Earth City, MO 63045

P+Z No. #23-007755  
 Approval Date: 08/03/2023  
 City No. CSP23-000048

Page No.  
 C-10

Box Project # 06-87066 Issue Date: 10/25/2023