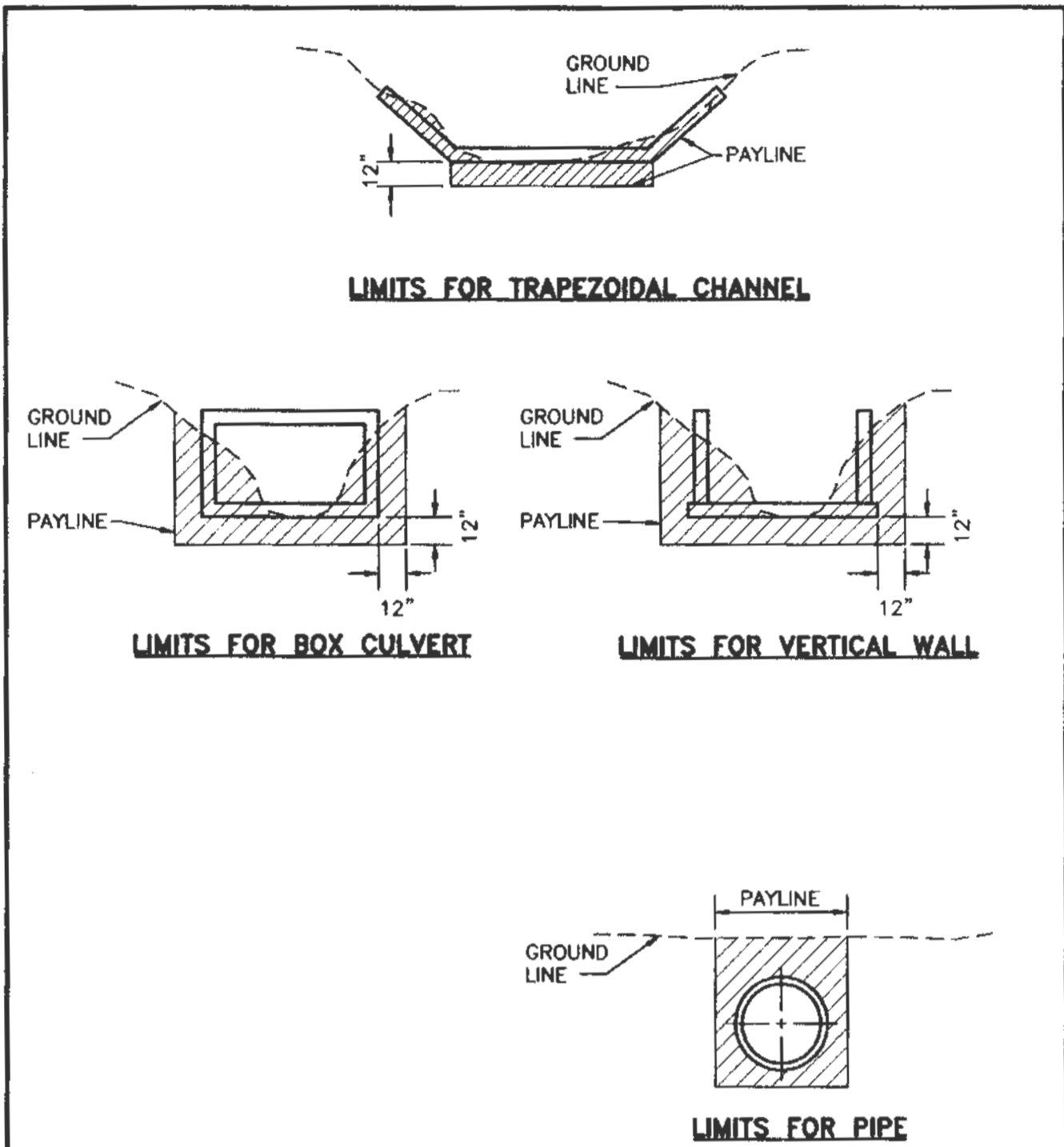


ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
INSIDE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT. CONCRETE ENCASUREMENT	INSIDE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT. CONCRETE ENCASUREMENT
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	DISCONTINUED			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				
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

DUCKETT CREEK SANITARY DISTRICT

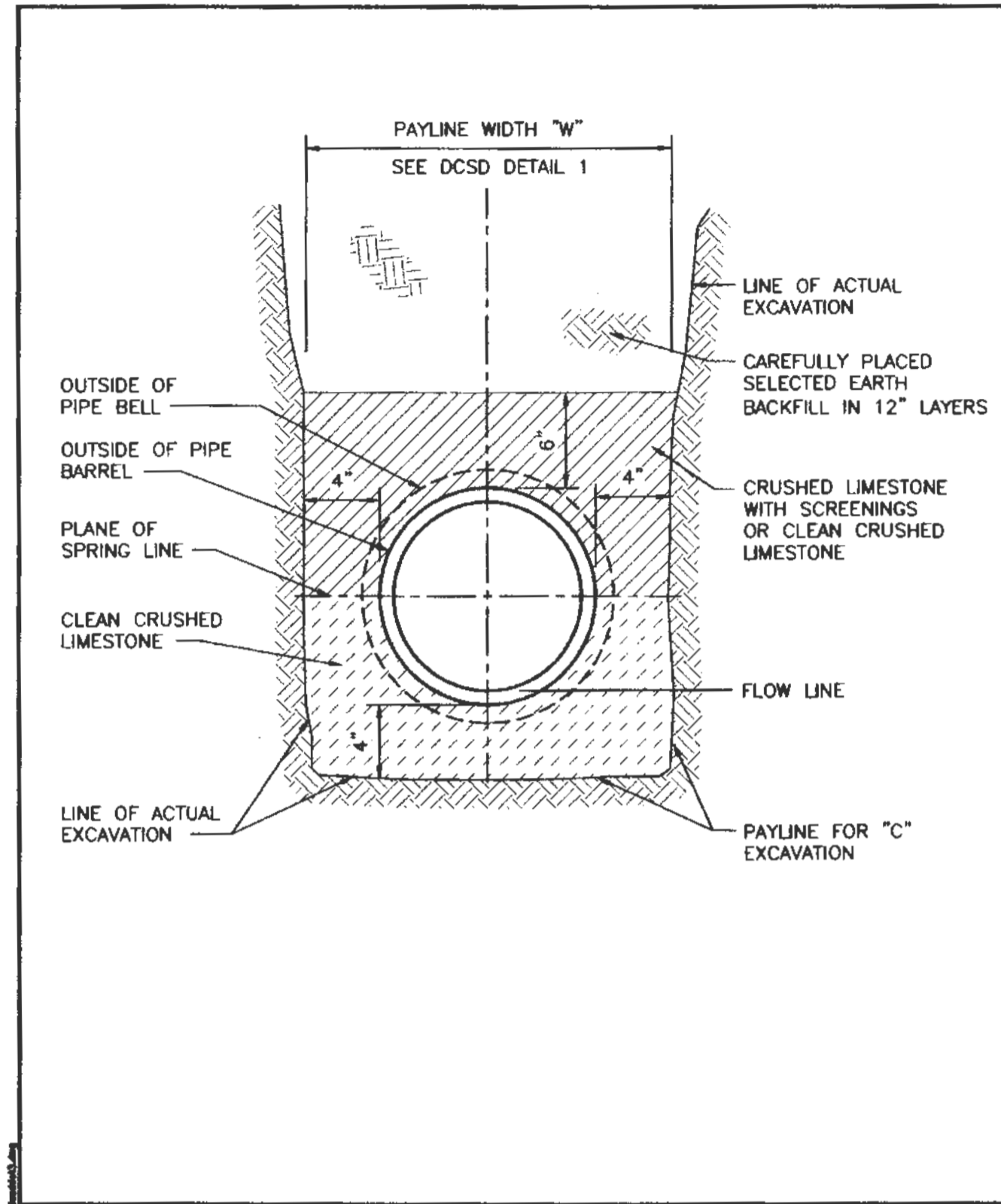
PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE
 Dwn By: BSM App By: KLA Detail No. 1
 Ctd By: MDOB Date: 12-21-99



NOTE: PAYLINE FOR ANY OTHER TYPE CHANNEL EXCAVATION SHALL BE THE EXACT SHAPE OF THE SUBGRADE.

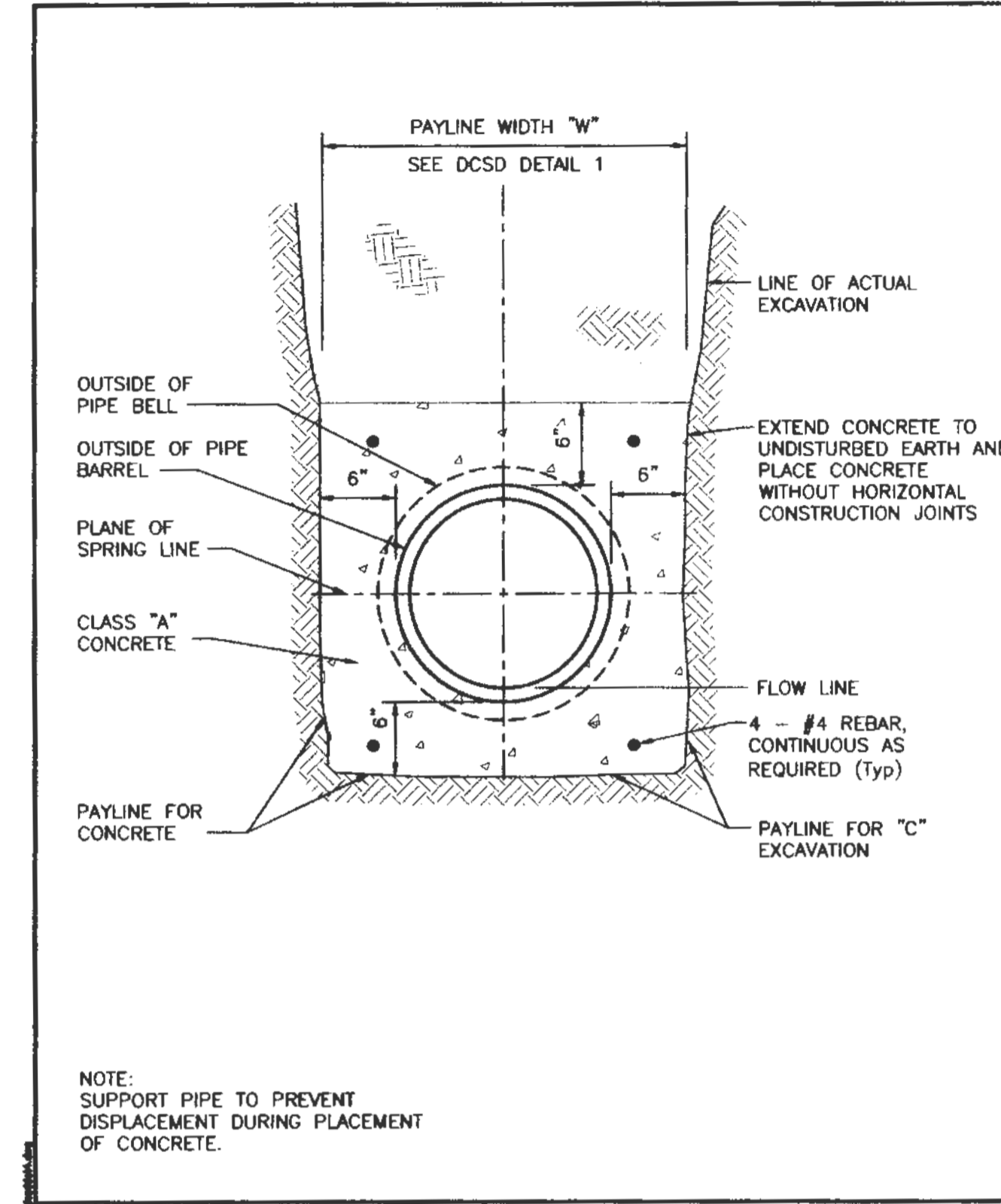
DUCKETT CREEK SANITARY DISTRICT

PAYLINE LIMITS FOR EXCAVATION
 Dwn By: BSM App By: KLA Detail No. 2
 Ctd By: MDOB Date: 12-21-99



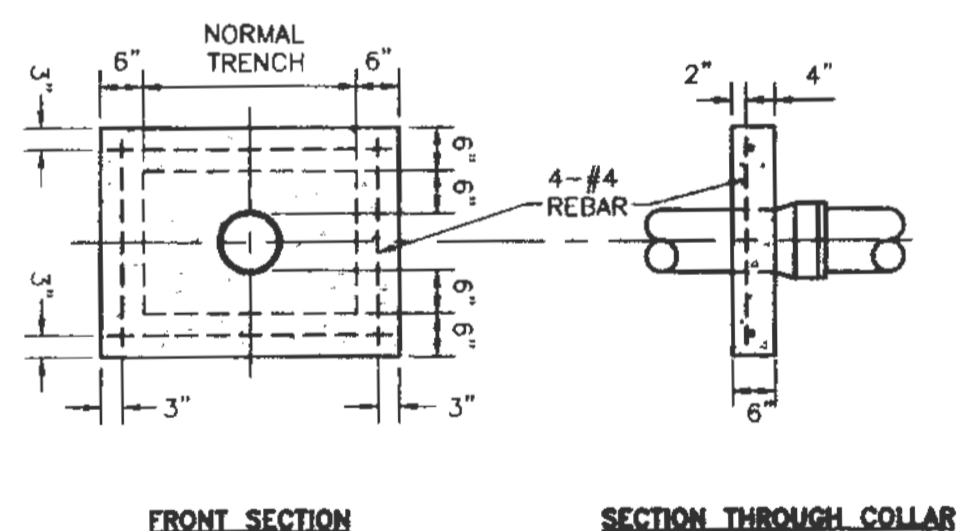
DUCKETT CREEK SANITARY DISTRICT

PIPE BEDDING CLASS "C" (FOR ALL PIPE EXCEPT REINFORCED CONCRETE PIPE)
 Dwn By: BSM App By: KLA Detail No. 3
 Ctd By: MDOB Date: 12-21-99



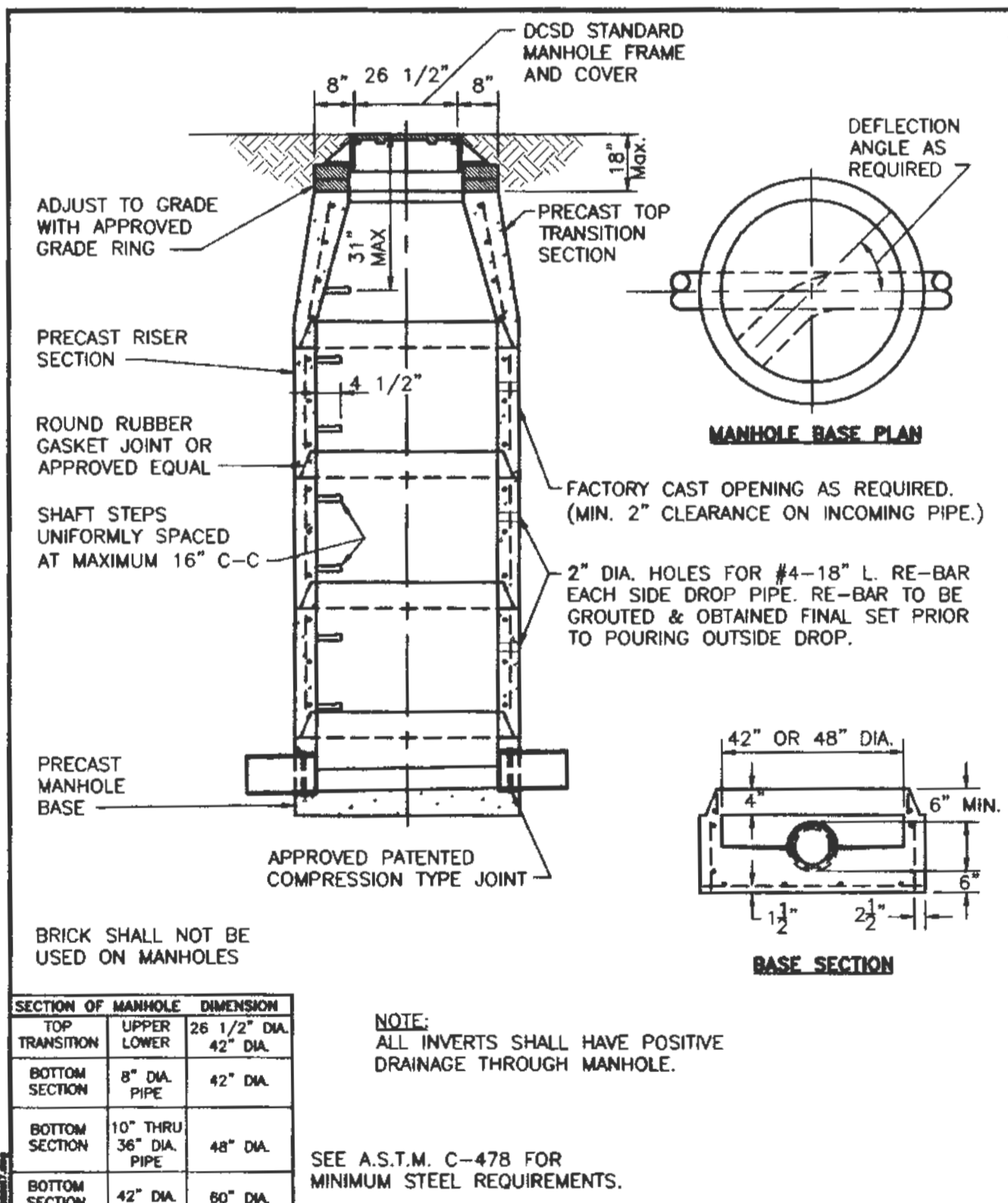
DUCKETT CREEK SANITARY DISTRICT

TYPICAL CONCRETE ENCASUREMENT
 Dwn By: BSM App By: KLA Detail No. 4
 Ctd By: MDOB Date: 12-21-99



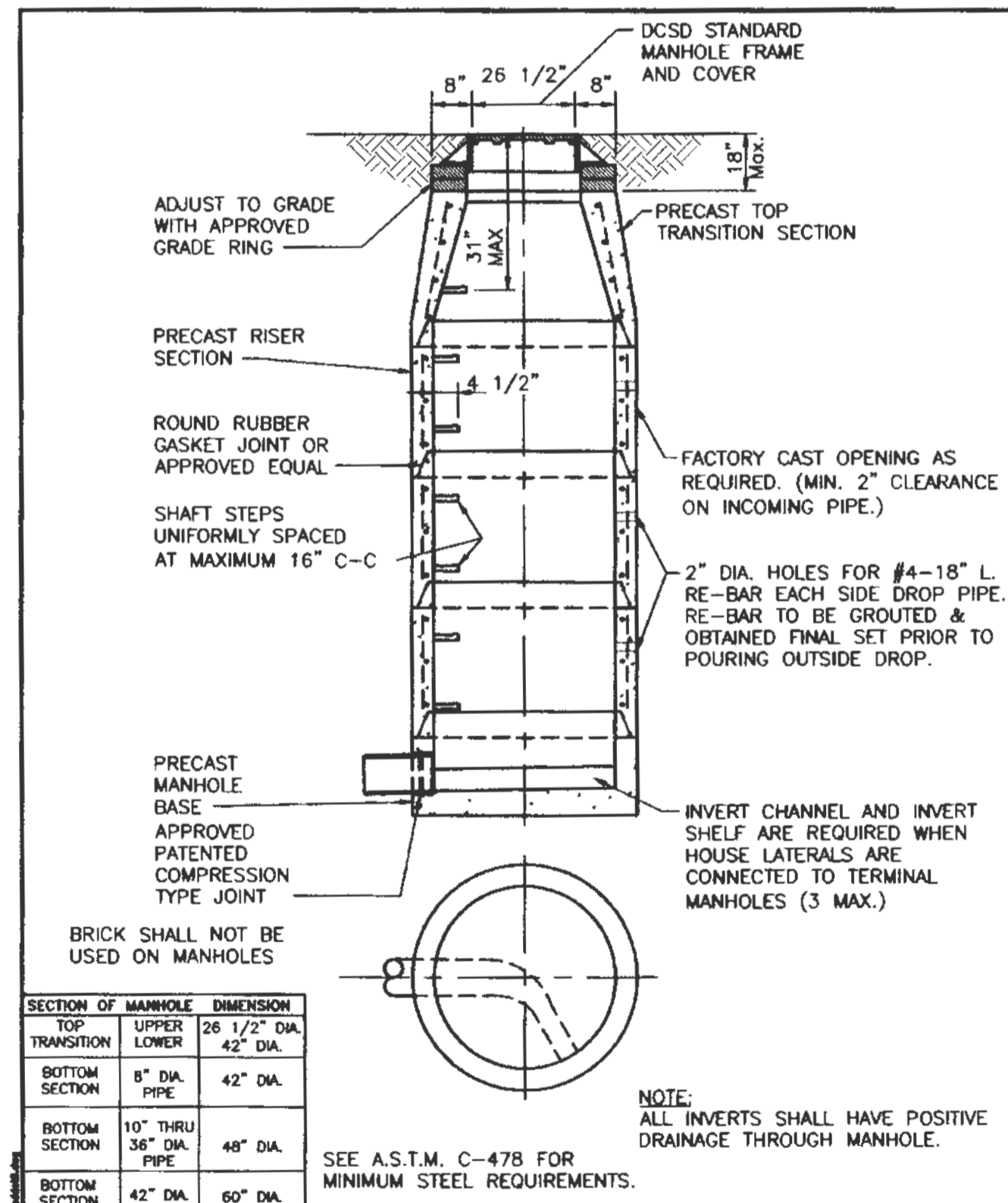
DUCKETT CREEK SANITARY DISTRICT

CONCRETE ANTI-SLIP COLLAR FOR PVC PIPE ON PIPE SLOPES FROM 15% TO 50%
 Dwn By: BSM App By: KLA Detail No. 5
 Ctd By: MDOB Date: 12-21-99



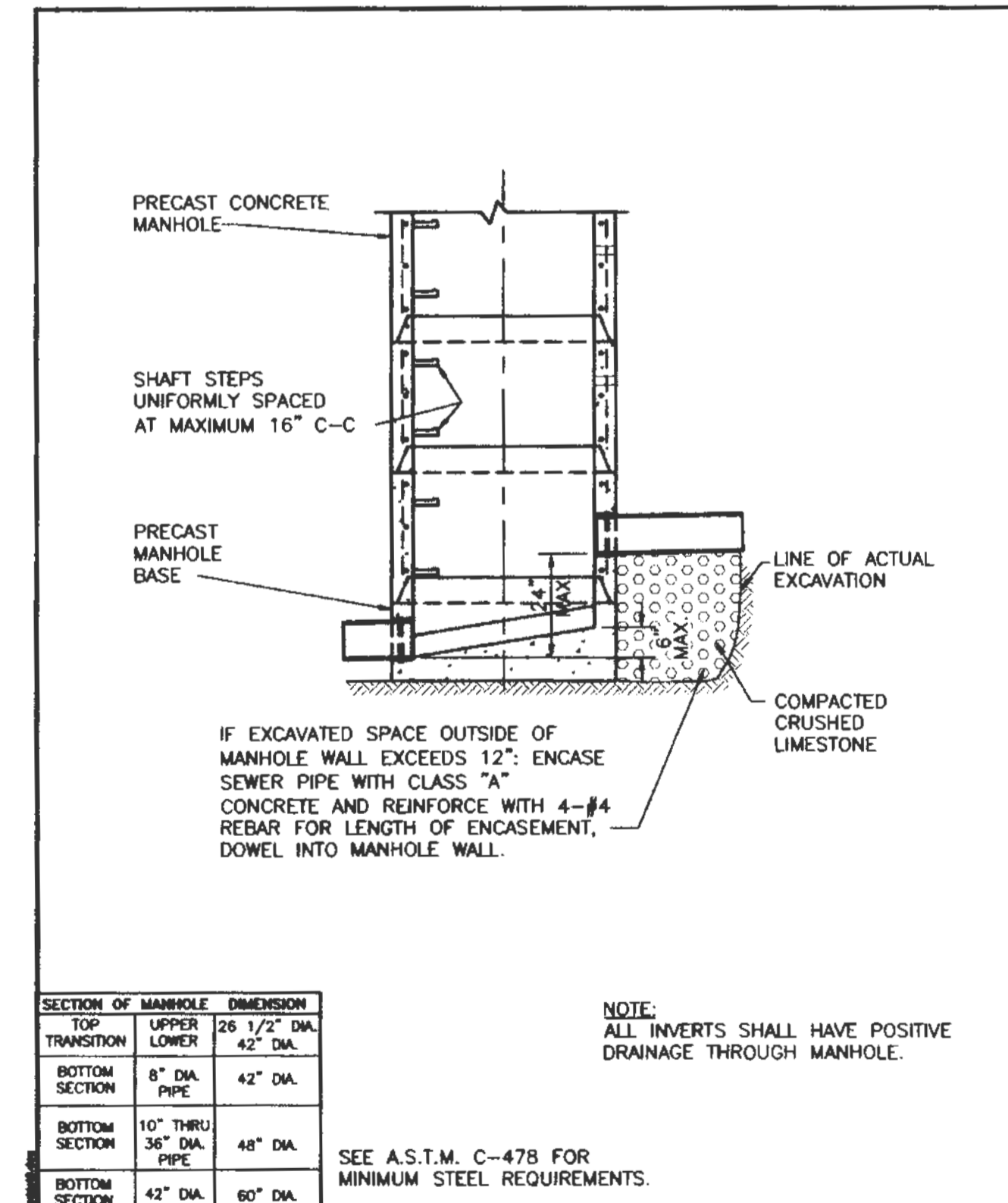
DUCKETT CREEK SANITARY DISTRICT

PRE-CAST CONCRETE MANHOLE FOR SEWERS 8" THROUGH 18"
 Dwn By: BSM App By: KLA Detail No. 7
 Ctd By: MDOB Date: 12-30-99



DUCKETT CREEK SANITARY DISTRICT

TERMINAL MANHOLE FOR SEWERS 8" THROUGH 18"
 Dwn By: BSM App By: KLA Detail No. 8
 Ctd By: MDOB Date: 01-03-00



DUCKETT CREEK SANITARY DISTRICT

INSIDE FOULWATER DROP MANHOLE (SWEEP INVERT)
 Dwn By: BSM App By: KLA Detail No. 9
 Ctd By: MDOB Date: 01-04-00

PROJECT TITLE

PICKETT, RAY & SILVER INC

CIVIL ENGINEERING, LAND SURVEYING, AND NATURAL RESOURCES SERVICES
 St. Peters, Missouri
 2280 S. Parkway, Suite 201
 St. Peters, MO 65376

ENGINEERS AUTHENTICATION
 THE RESPONSIBILITY FOR PROFESSIONAL ENGINEERING LIABILITY ON THIS PROJECT IS HEREBY ATTRIBUTED TO THE SET OF PLANS AUTHENTICATED BY THE SEAL, SIGNATURE, AND DATE INDICATED HEREON AND SPECIALLY EXCLUDED FOR ALL OTHER ENGINEERING PLANS DRAWING IN THIS PROJECT AND SPECIALLY EXCLUDED REVISIONS AFTER THIS DATE UNLESS REAUTHENTICATED.

Handwritten signature and date

DOUGLAS S. TISHMAN
 PROFESSIONAL ENGINEER LICENSE E-23345

Developer / Owner Information

MCKELVEY HOMES
 218 Chesterfield Towne Centre
 Chesterfield, Missouri 63005
 Phone: 636-530-6900

P+Z No.

City No.

Page No.

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MCKELVEY HOMES
 Building & Construction Engineering Since 1958

CITY OF OFALLON - Duckett Creek Sanitary District Details

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