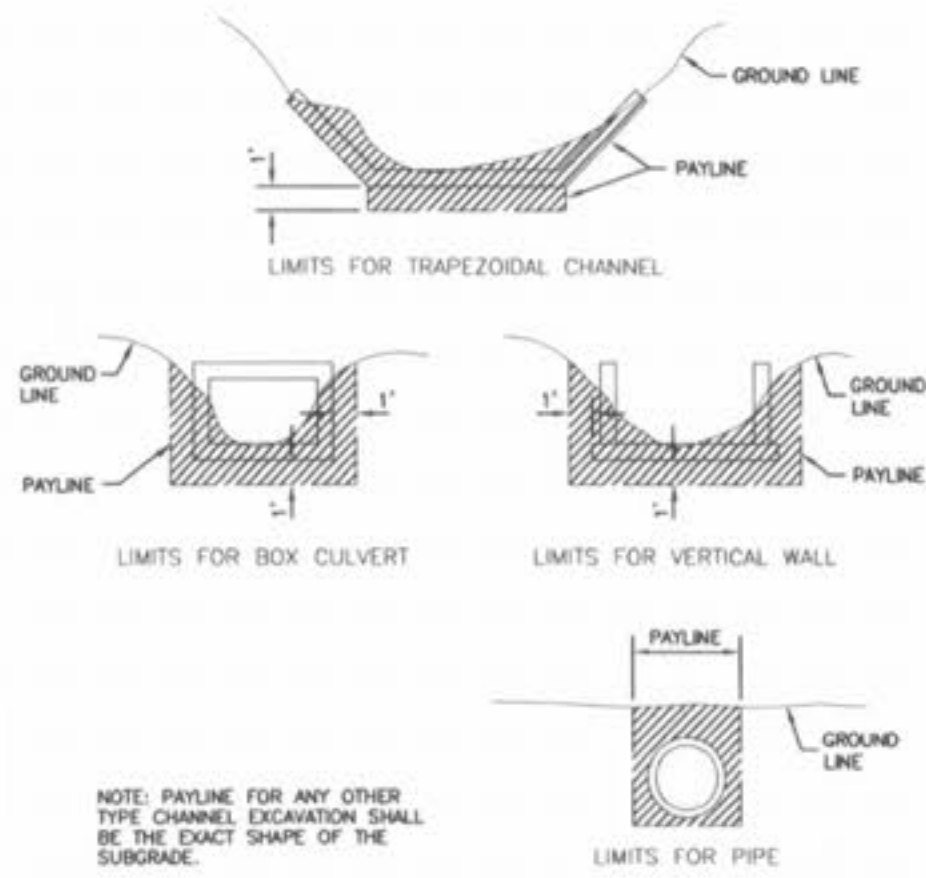


ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
Inside Diameter of Pipe (Inches)	Payline Width of Trench (Inches)	Payline Width of Trench (Feet)	Pay-volume (cu ft per 100 ft of Pipe)	Inside Diameter of Pipe (Inches)	Payline Width of Trench (Inches)	Payline Width of Trench (Feet)	Pay-volume (cu ft per 100 ft of Pipe)
4	30	2.50	3.28				
6	30	2.50	2.59				
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	4.00	9.30	24 X 38	58	4.83	9.70
33	51	4.25	10.53	27 X 42	62	5.17	10.71
36	54	4.50	11.43	29 X 45	66	5.50	11.72
39	57	4.75	12.50	32 X 49	71	5.92	13.14
42	60	5.00	13.38	34 X 53	75	6.25	14.05
48	66	5.50	15.87	38 X 60	83	6.92	16.18
54	72	6.00	18.15	43 X 68	92	7.87	18.81
60	78	6.50	20.73	48 X 76	101	8.42	21.29
66	84	7.00	23.45	53 X 83	109	9.08	24.35
72	90	7.50	26.37	58 X 91	116	9.85	27.45
78	96	8.00	29.39	63 X 98	126	10.50	30.50
84	102	8.50	32.57	68 X 106	135	11.25	33.91
90	108	9.00	35.90	72 X 113	143	11.92	36.99
96	114	9.50	39.37	77 X 121	152	12.87	40.69
102	120	10.00	42.99	82 X 128	160	13.33	44.45
108	126	10.50	46.75	87 X 136	168	14.00	47.79
114	132	11.00	50.66	92 X 143	176	14.87	51.70
120	138	11.50	54.72	97 X 151	185	15.42	56.01
126	144	12.00	58.92	106 X 164	202	16.83	64.48
132	150	12.50	63.27	116 X 180	216	18.17	73.59
144	162	13.50	72.40				

TABLE NO. 1  
PAYLINE WIDTHS OF TRENCH AND  
PAY-QUANTITIES OF CONCRETE



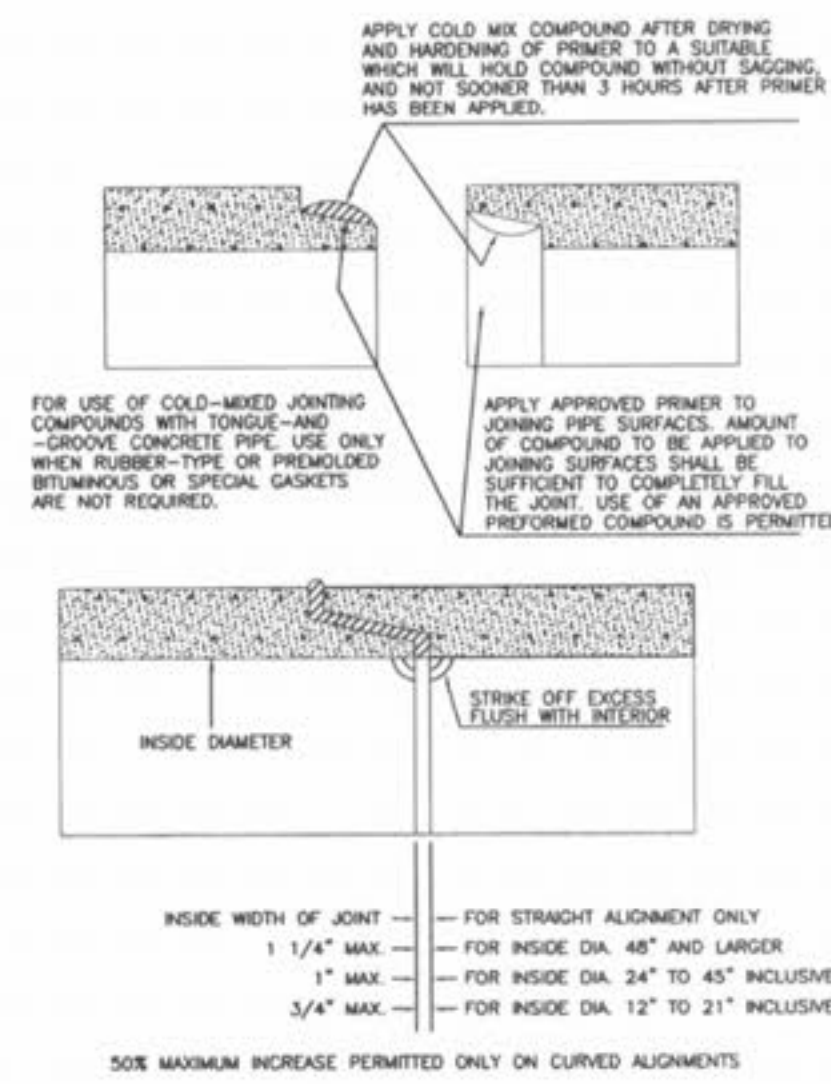
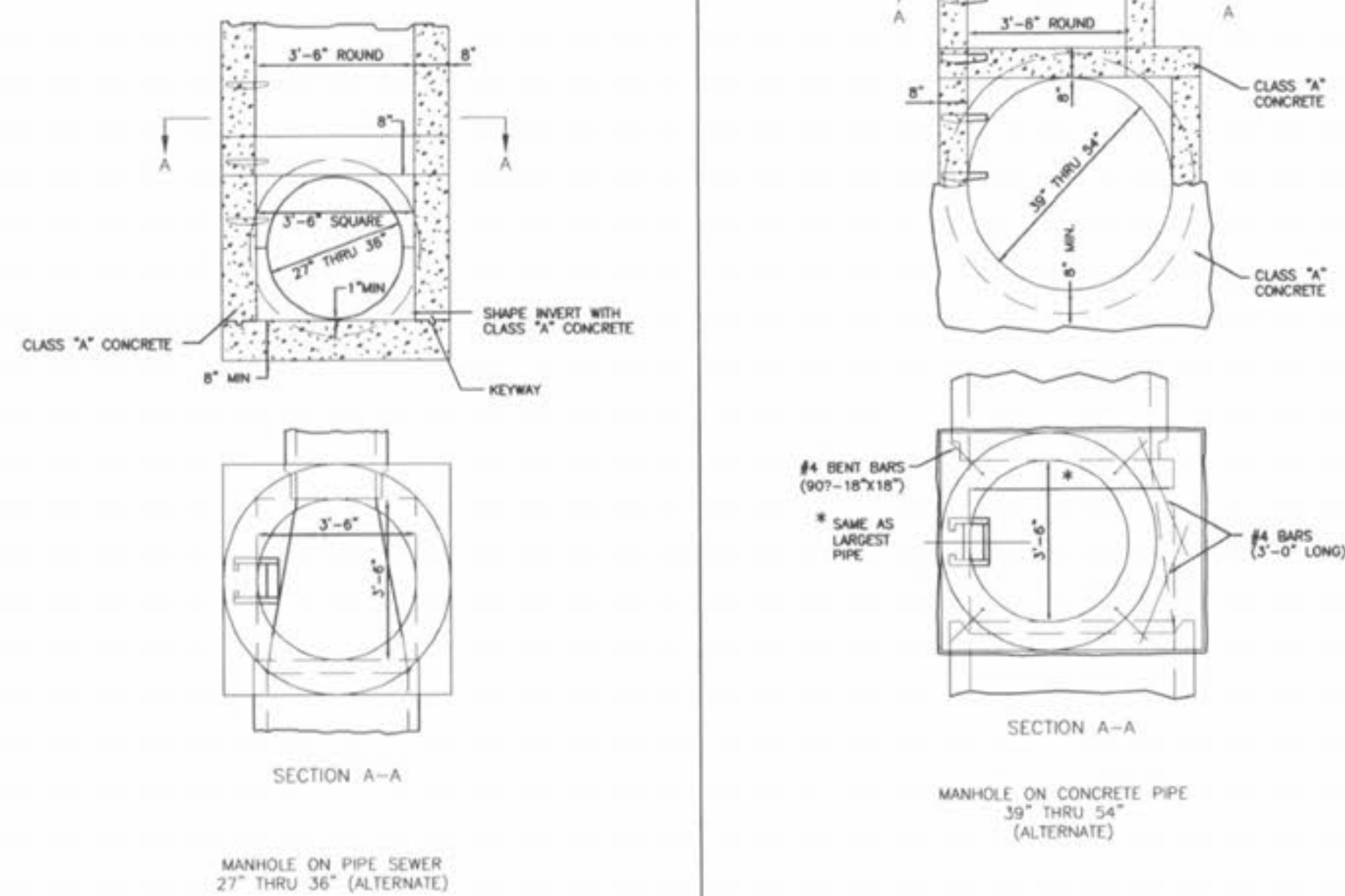
NOTE: PAYLINE FOR ANY OTHER  
TYPE CHANNEL EXCAVATION SHALL  
BE THE EXACT SHAPE OF THE  
SUBGRADE.

PAYLINE LIMITS  
FOR EXCAVATION

NOTE: ADD 5/8" TRASH BAR TO ALL  
CURB INLET OPENINGS

SECTION OF MANHOLE		DIMENSION
TOP SECTION	UPPER	2'-2 1/2" DIA.
	LOWER	3'-6" DIA.
BOTTOM SECTION	8" THRU 24" DIA. PIPE	3'-6" DIA.
	27" THRU 36" DIA. PIPE	3'-6" SQUARE

TABLE NO. 2  
STANDARD MANHOLE DIMENSIONS

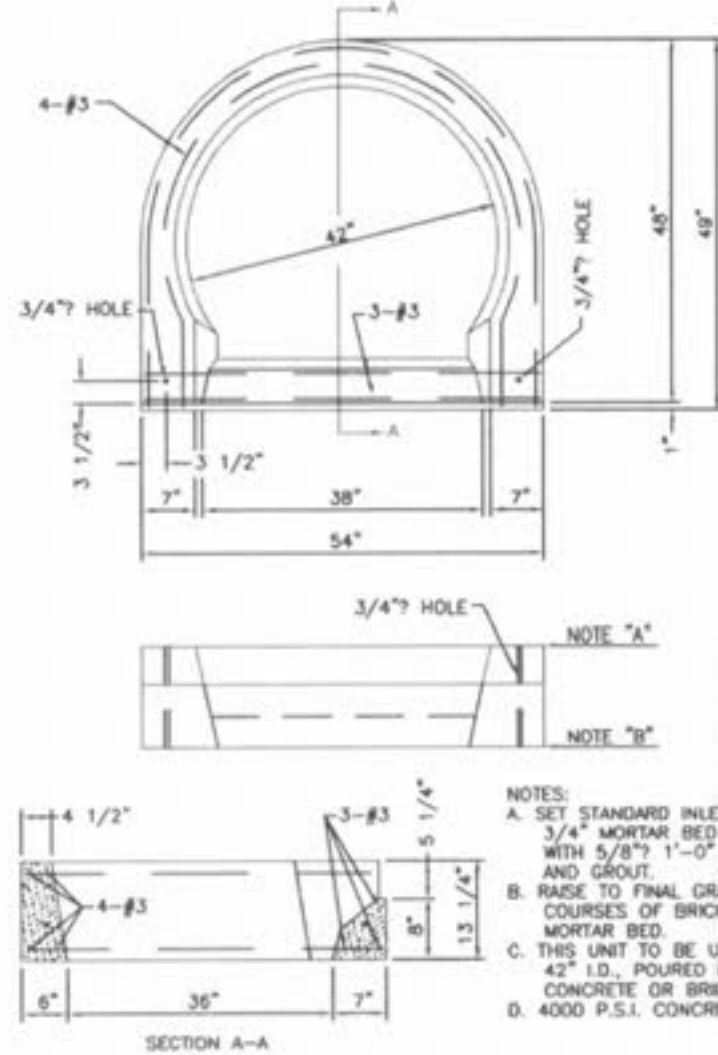


INSIDE WIDTH OF JOINT

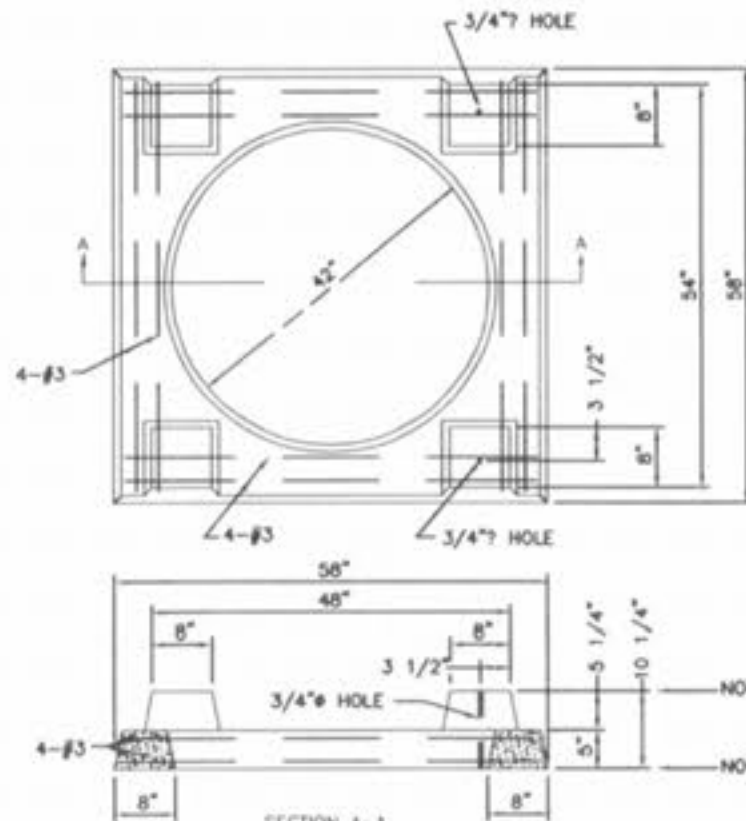
FOR STRAIGHT ALIGNMENT ONLY  
1/4" MAX. FOR INSIDE DIA. 48" AND LARGER  
1" MAX. FOR INSIDE DIA. 24" TO 45" INCLUSIVE  
3/4" MAX. FOR INSIDE DIA. 12" TO 21" INCLUSIVE

50% MAXIMUM INCREASE PERMITTED ONLY ON CURVED ALIGNMENTS

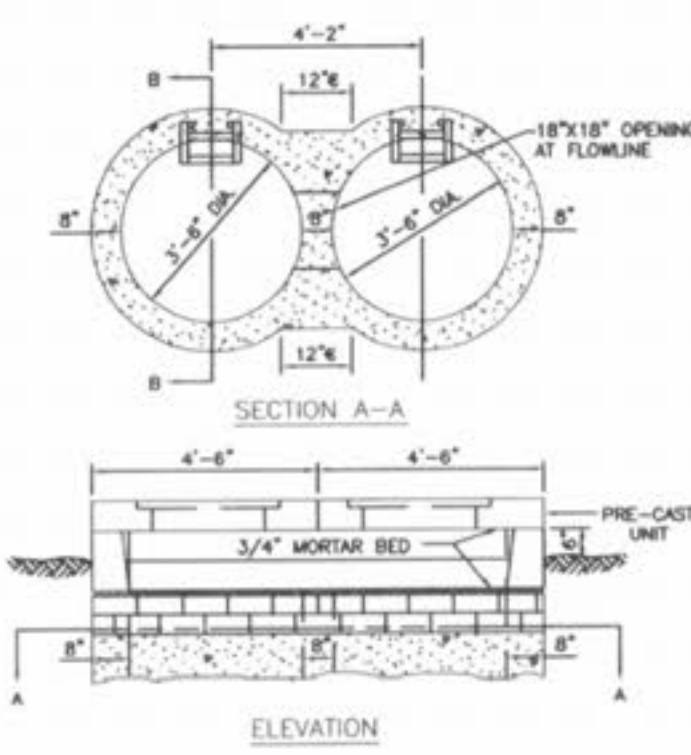
TONGUE AND GROOVE  
CONCRETE PIPE JOINTS



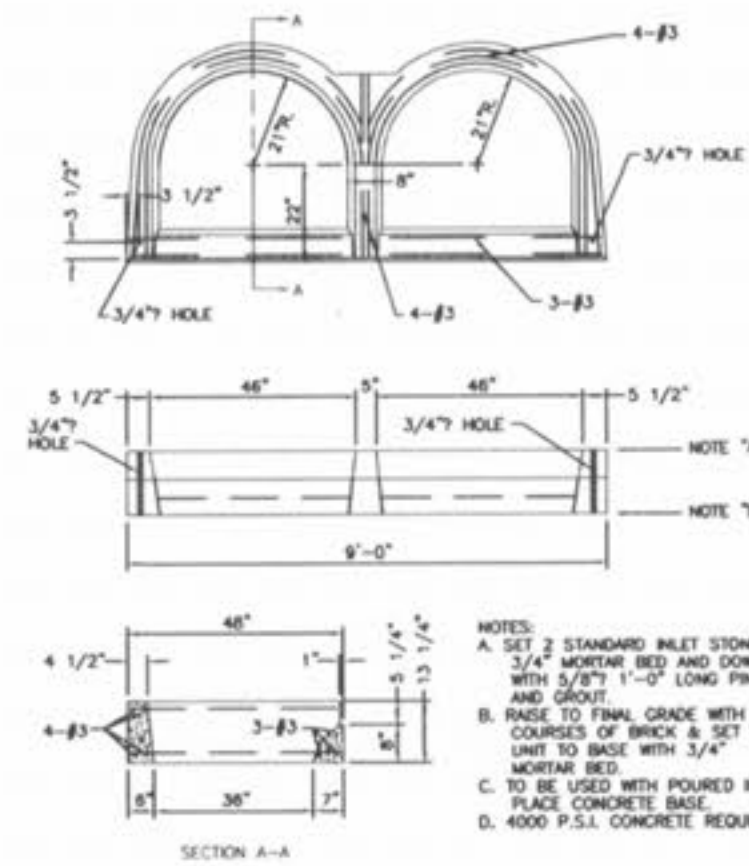
PRECAST CONCRETE UNIT  
FOR  
SINGLE CURB INLET



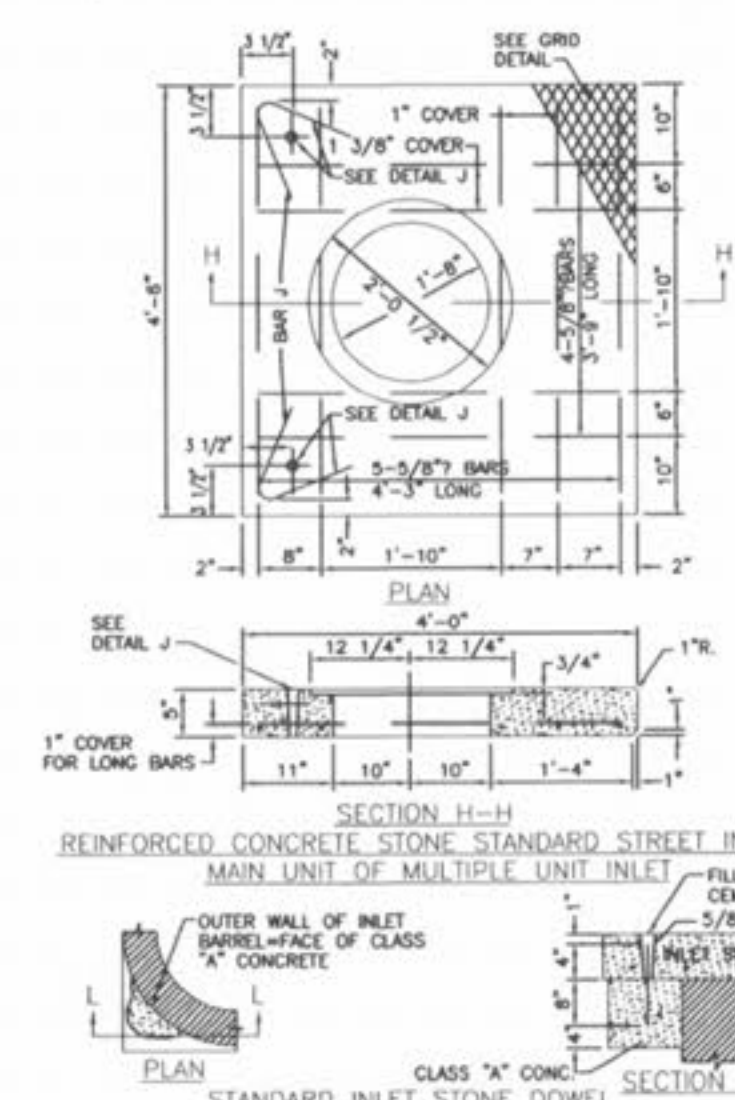
PRECAST CONCRETE UNIT  
FOR  
4-WAY AREA INLET



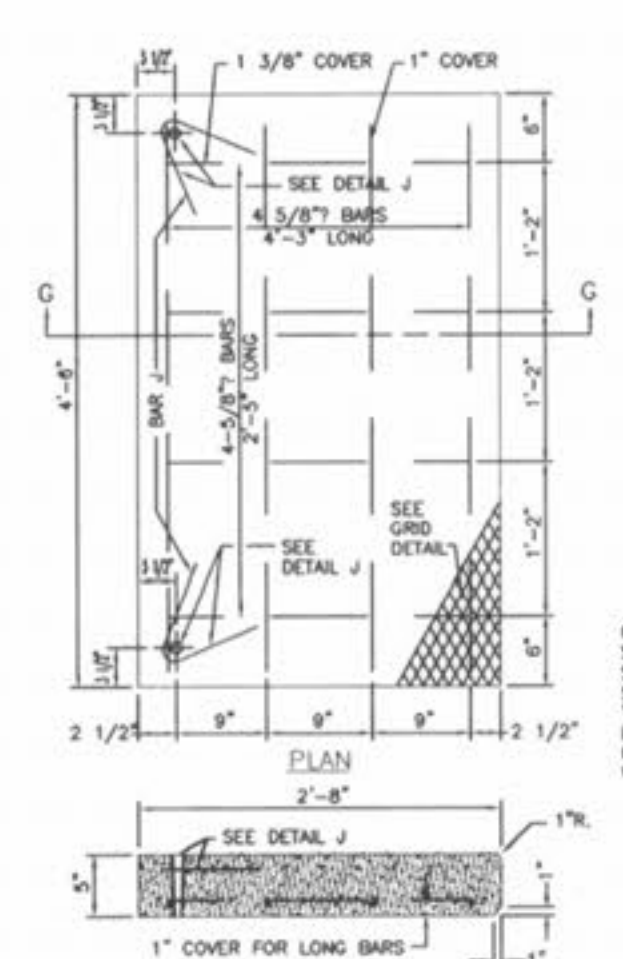
CONCRETE DOUBLE  
STREET INLET  
W/PRE-CAST TOP UNIT



PRECAST CONCRETE UNIT FOR  
DOUBLE CURB INLET  
(WITH CONCRETE BASE)



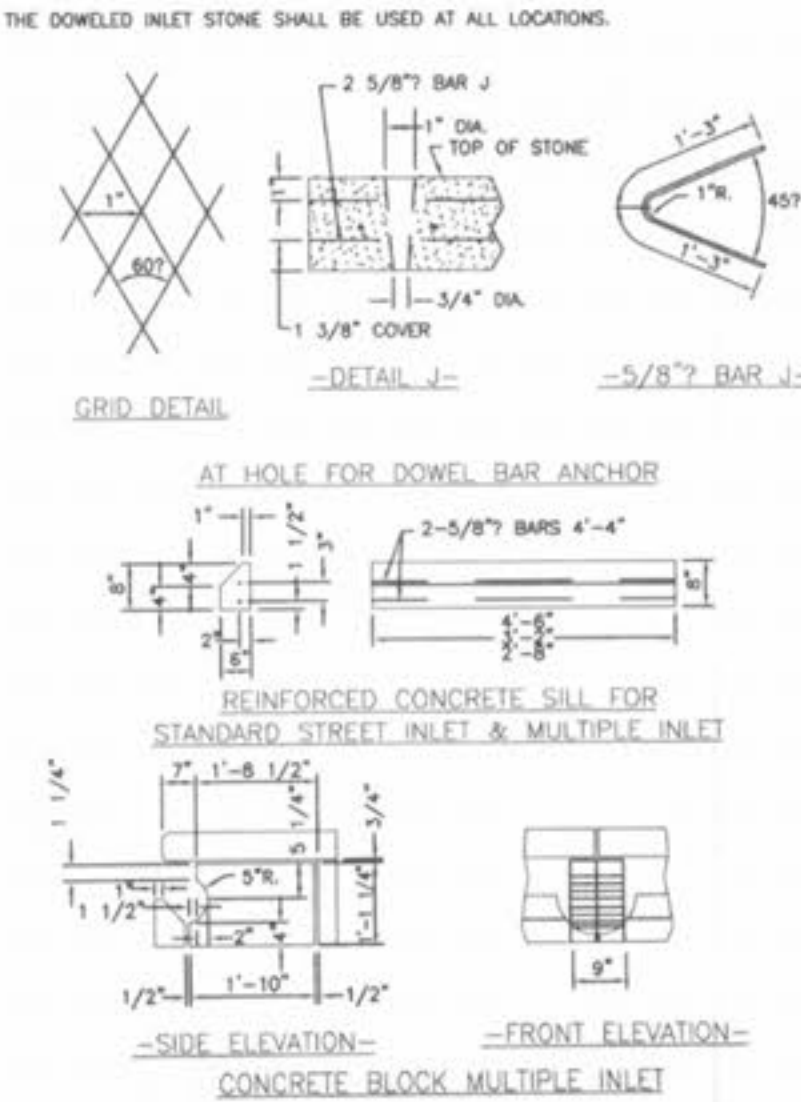
REINFORCED CONCRETE STONE STANDARD STREET INLET AND  
MAIN UNIT OF MULTIPLE UNIT INLET



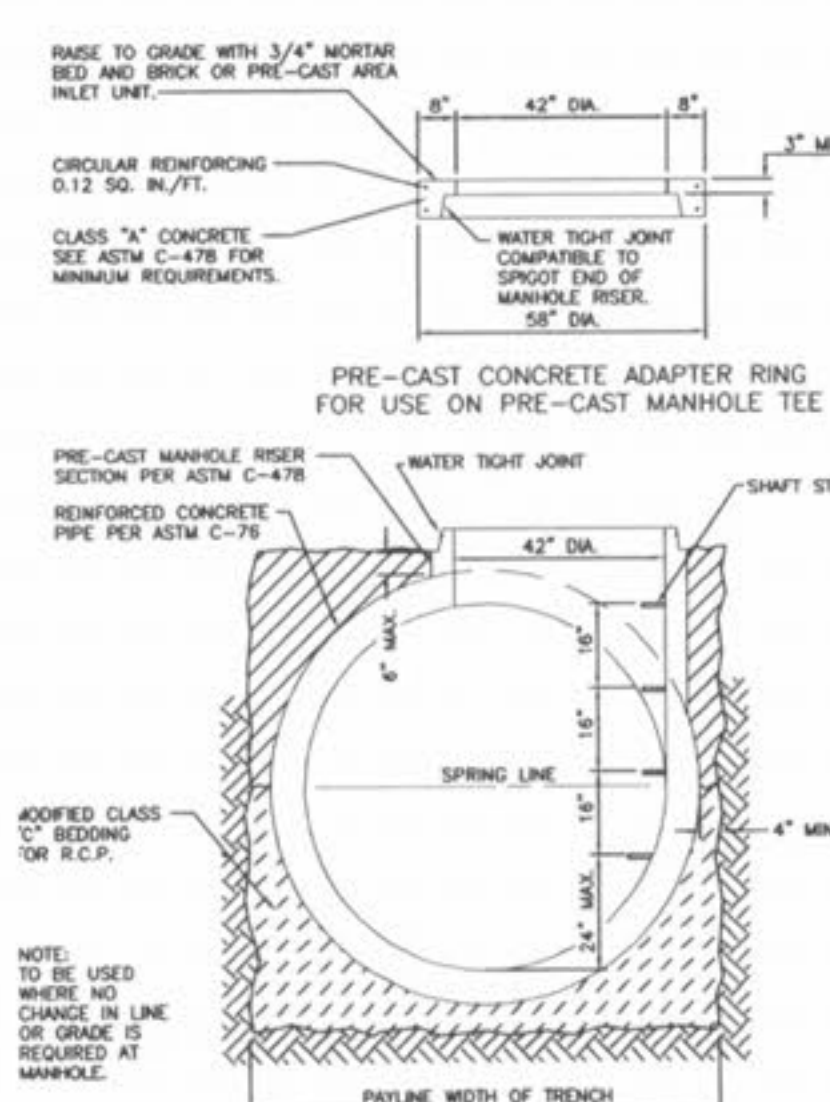
REINFORCED CONCRETE STONE FOR ADDITIONAL  
UNITS OF MULTIPLE UNIT INLET



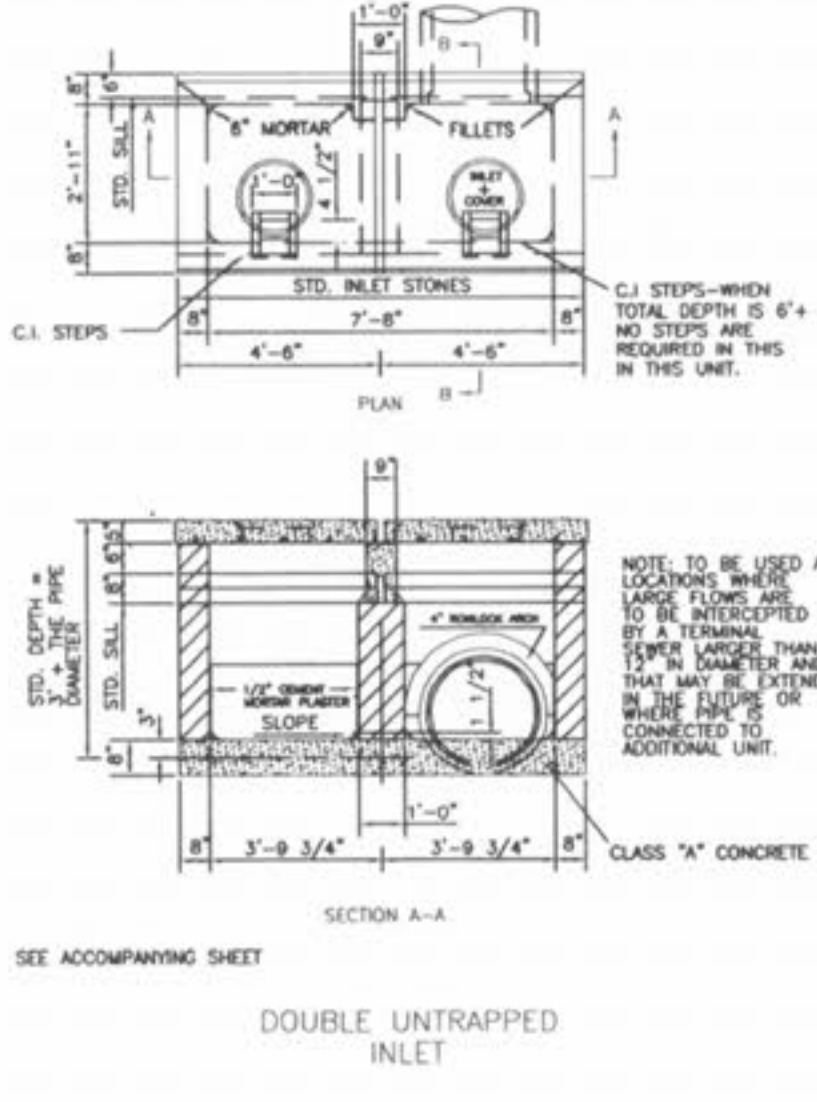
SECTION K-K  
MULTIPLE INLET  
STONE DOWEL



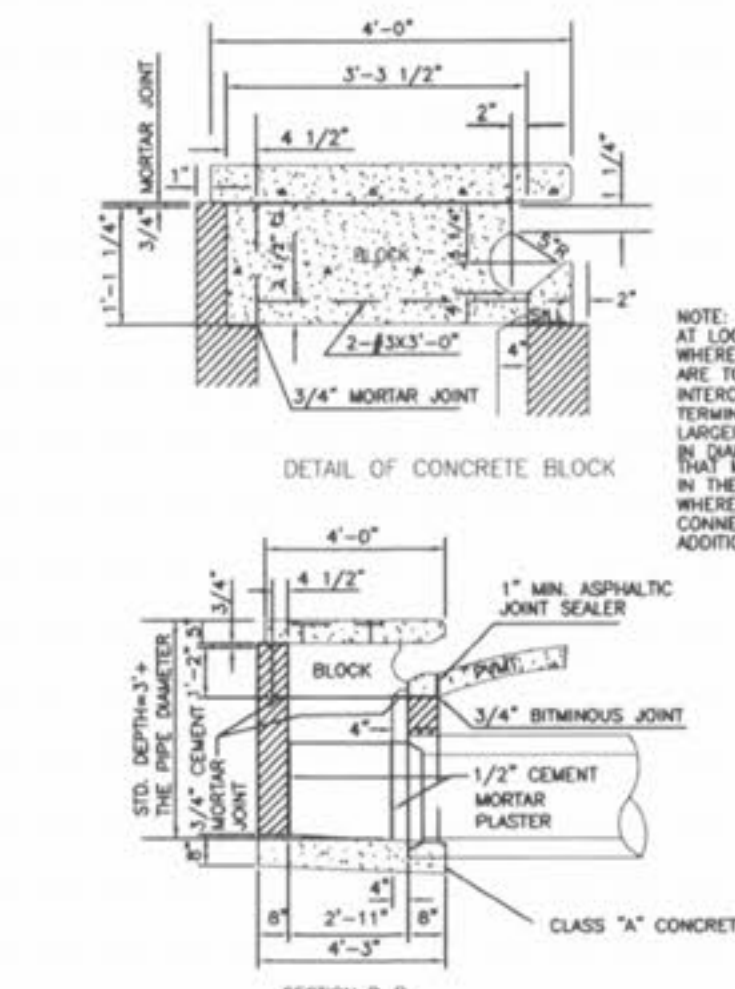
CONCRETE BLOCK MULTIPLE INLET



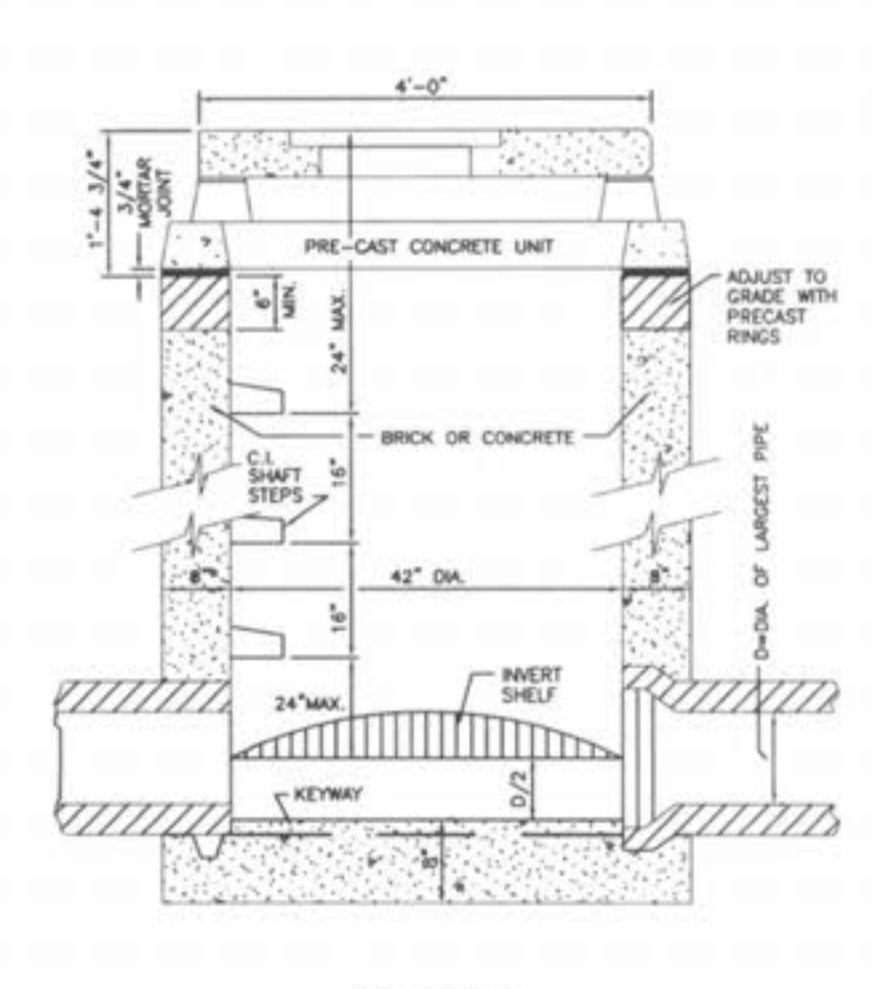
PRE-CAST CONCRETE ADAPTER RING  
FOR USE ON PRE-CAST MANHOLE TEE



DOUBLE UNTRAPPED  
INLET



DETAIL OF CONCRETE BLOCK



AREA INLET  
(12" THRU 24")

**PICKETT RAY & SILVER**

333 Mid Rivers Mall Drive  
St. Peters, MO 63376  
Phone (636) 397-1211  
Fax (636) 397-1104

CIVIL ENGINEERS  
PLANNERS  
LAND SURVEYORS

**BROOKSIDE**

CONSTRUCTION DETAILS

Prepared For:  
**SUMMIT POINTE L.C.**

REVISIONS	NO.	DATE	REV.	PER	CITY	COMMENTS
	3	8/11/05				

ENGINEERS AUTHENTICATION  
The responsibility for professional  
engineering liability on this project  
is hereby limited to the set of plans  
authenticated by the seal, signature,  
and date hereunder attached.  
Responsibility is disclaimed for all  
other engineering plans involved in  
this project and specifically excludes  
revisions after this date unless  
reauthenticated.



DRAWN	DATE
CAD	FEB. 2005
CHECKED	DATE
DWD	FEB. 2005
PROJECT #	FIELD
03029 SUP0.01R	002
TASK #	BOOK
847	

BROOKSIDE  
CONSTRUCTION DETAILS  
SHEET 146 OF 149

P & Z NO. 2603.01

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