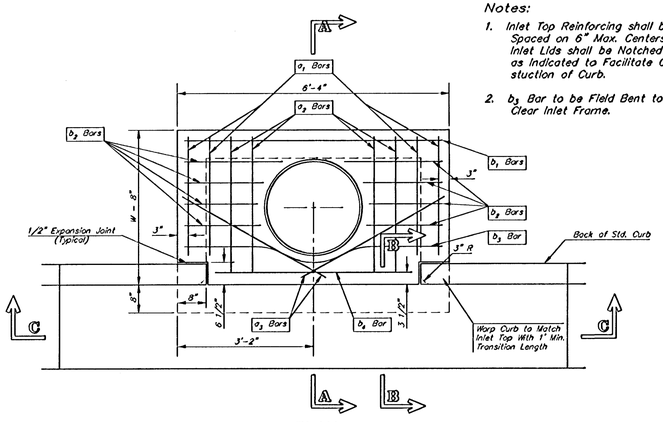
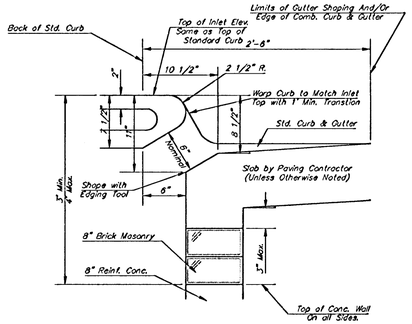
FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87 N-0303-01	2003	50	143

Notes:

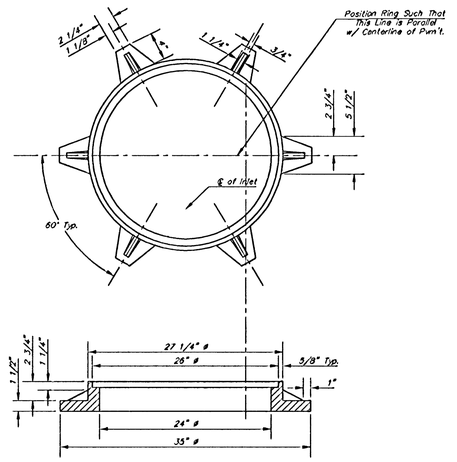
1. Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids shall be Notched out as Indicated to Facilitate Construction of Curb.
2. b_2 Bar to be Field Bent to Clear Inlet Frame.



PLAN



SECTION B–B



MANHOLE RING AND COVER

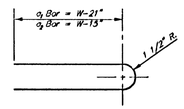
*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.

STEEL SCHEDULE

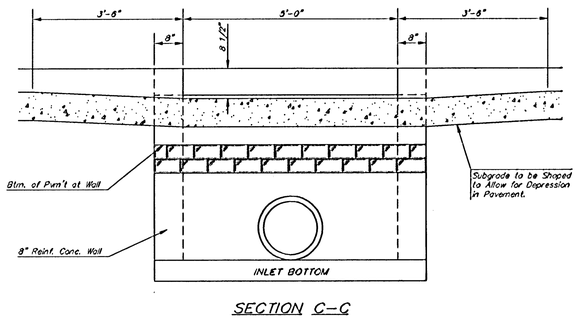
BAR		a_1	a_2	a_3	b_1 W=4'-4"	b_1 W=5'-4"	b_1 W=6'-4"	b_1 W=7'-4"	b_1 W=8'-4"	b_2	b_3	b_4	Wt. Lbs.
NUMBER		4	4	2	1	3	5	7	9	6	1	1	
SIZE		#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
LENGTH	W=4'-4"	5'-7"	6'-7"	4'-0"	6'-1"	–	–	–	–	1'-9"	6'-2"	4'-8"	60±
	W=5'-4"	7'-7"	8'-7"	5'-0"	–	6'-1"	–	–	–	1'-9"	6'-2"	4'-8"	81±
	W=6'-4"	9'-7"	10'-7"	6'-0"	–	–	6'-1"	–	–	1'-9"	6'-2"	4'-8"	101±
	W=7'-4"	11'-7"	12'-7"	7'-0"	–	–	–	6'-1"	–	1'-9"	6'-2"	4'-8"	121±
	W=8'-4"	13'-7"	14'-7"	8'-0"	–	–	–	–	6'-1"	1'-9"	6'-2"	4'-8"	141±

Note: a_3 Bars to be Placed Approx. 2" Below Top of Inlet Cover.

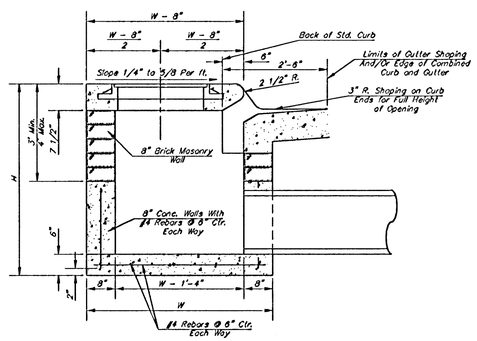
STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" 6'-4" 7 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" 6'-4" 7 1/2"	24" & 30"	0.51±
6'-4"	5'-8" 6'-4" 7 1/2"	36" & 42"	0.64±
7'-4"	6'-8" 6'-4" 7 1/2"	48" & 54"	0.77±
8'-4"	7'-8" 6'-4" 7 1/2"	60" & 66"	0.90±



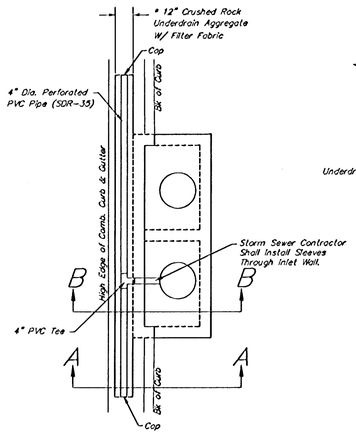
BENDING DIAGRAM



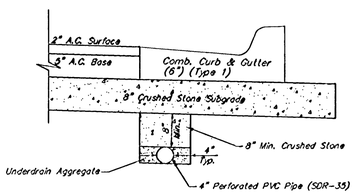
SECTION C–C



SECTION A–A



PLAN
NOT TO SCALE



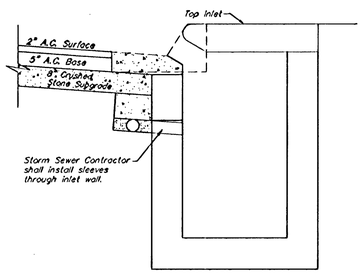
(Min. 16 Perforations Per Foot @ .25" Dia.)
Perforations To Be on Bottom Half

SECTION A–A
NOT TO SCALE

* UNDERDRAIN AGGREGATE
Percent of Aggregate Retained

1"	0
.75"	0 to 10
.40"	45 to 80
#4	90 to 100
#8	95 to 100

Rock Quality Shall Conform To The Requirements Specified By K.D.O.T. 1990 Edition Standard Specification Subsection 1102 For Durability Class 1.



(Min. 16 Perforations Per Lin. Ft. @ .25" Dia.)
Perforations To Be on Bottom Half

SECTION B–B
NOT TO SCALE

NOTE: Place 4" Perforated PVC Pipe at all drainage sump locations.
Storm Sewer Contractor shall install sleeves through inlet wall.
Cost of Underdrain System to be INCIDENTAL to the Bid Item " Reinf. Crushed Rock Base (8").
Inlet Type May Vary From That Shown.

PAVEMENT UNDERDRAIN DETAIL
TYPE–I INLET
NOT TO SCALE

GENERAL NOTES

1. Concrete tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix.
2. Contractor shall have the option of constructing 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" and H=7'-0" or less.
3. Inlet invert shall be shaped with 8 sack sand mix concrete to create flow channels and to increase hydraulic efficiency such that the inlet will be self cleaning between all inlet and/or outlet pipes.
4. The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.
5. This detail is identical to the standard detail drawing except that the gutter transition length is increased from 2'-0" to 3'-6".

PROJECT NUMBER			SHEET NAME	ENGINEERING DIRECTORY	
472-83902			Styp1-s	F:\\Hydraulic_phs2\details	
DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
STAFF	STAFF		JUNE 2003	None	99-09-E451

CITY OF WICHITA, KANSAS
STANDARD TYPE 1 SINGLE CURB INLET DETAILS
INLET OPENING = 6'x5'-0"

BAUGHMAN COMPANY, P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 * 315 ELLIS * WICHITA, KANSAS 67211

SHEET 50 OF 143