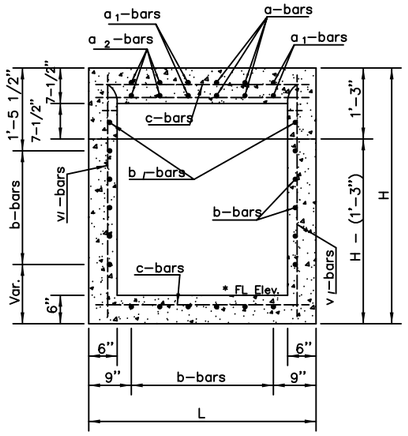
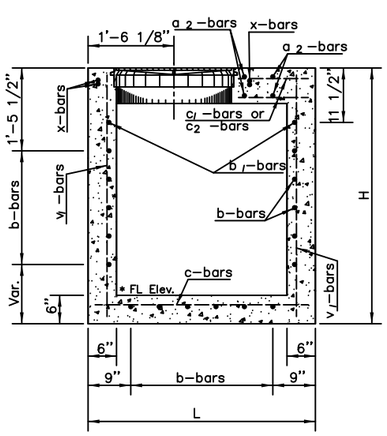
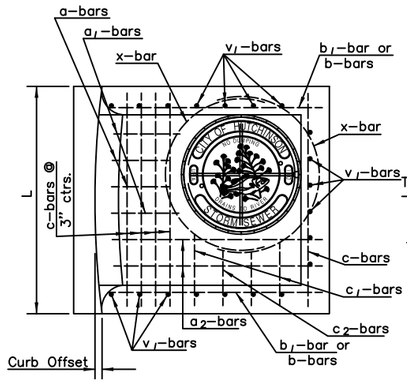
δ Steps shall be uniformly spaced. Spacing shall be 12" minimum and 16 1/2 " maximum.



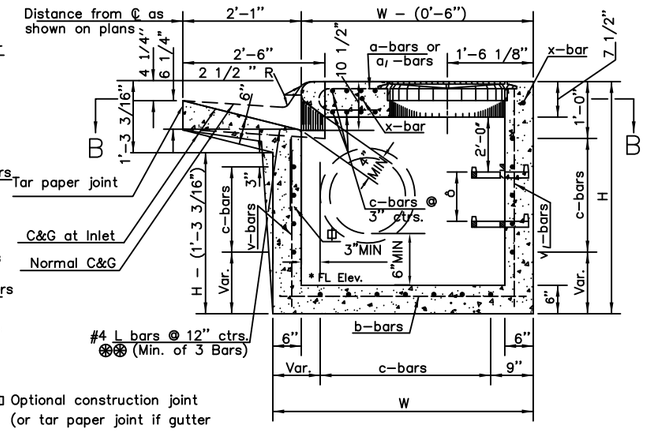
SECTION D–D



SECTION C–C



SECTION B–B



SECTION A–A

℄ Optional construction joint (or tar paper joint if gutter is constructed free from inlet).

GENERAL NOTES

Use Class A Concrete throughout. All exposed edges shall be finished with an edging tool.

At the Contractors optioin Class A Concrete (AE) or mix used in concrete pavement may be used throughout.

In general, pipes will enter and leave manhole at various positions. Where possible bend bars around pipes. Manhole opening and steps, when used, shall be placed to afford easy access to top. Top reinforcing bars to be adjusted accordingly.

All castings shall be gray iron and shall comply with the KDOT Standard Specifications.

The top of the manhole shall be sloped slightly to drain to the gutter.

Dimensions and weights of cast iron as shown on this sheet are minimum. Larger dimensions and/or heavier weights of cast iron may be used.

Steps shall be installed in all storm sewer inlets when specified in the plans or when "H" is equal to or greater than six feet. Steps shall comply with the KDOT Standard Specifications.

No reduction in concrete quantities shall be made for pipe openings. When directed by the Engineer, a small opening in the back of the inlet shall be provided in order to drain a low area. Reinforcing bars shall extend through the opening. No reduction in concrete quantities will be made for this opening. No inverts will be poured in the inlet.

No reduction in pay length of curb, gutter, or curb & gutter will be made through the inlet area.

The weight of castings includes no allowance for fillets and overruns.

Curb and Gutter sections shall be shaped as shown where required by the installation of curb inlets. This work shall be subsidiary to other bid items.

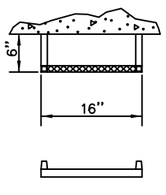
For additional notes and details on Light Type Cast Iron Manhole Cover and Ring Type C and Cast Iron Steps, See Standard # 7 Standard Manhole Details For Storm Sewers.

All reinforcing steel shall be #4 at 6" centers except where noted. Minimum clear distance to reinforcement shall be 1 1/2".

Slope Inlet 1/4" per 1' toward Street.

2 (two) Holes ¾" dia. are Required on Manhole Covers.

* NOTE: Top of floor slab elevation to be a minimum elevation 6" below FL elevation of the outlet pipe.



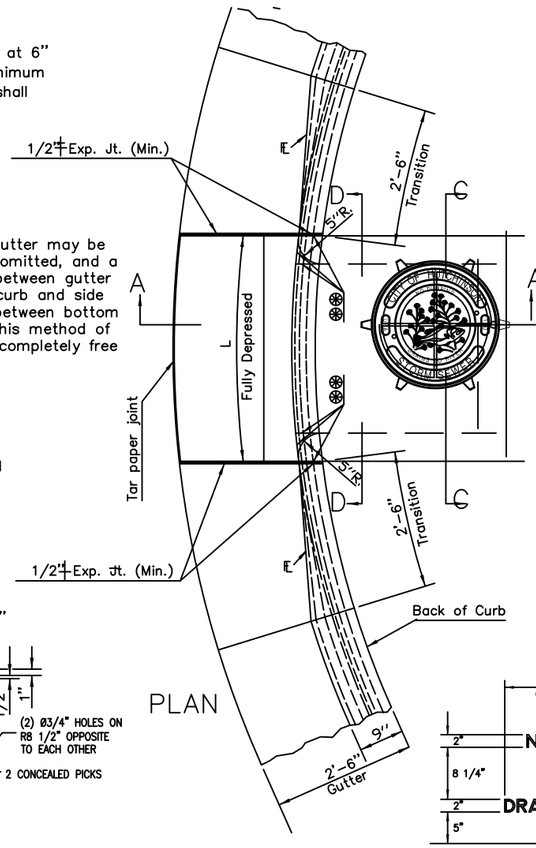
STEP DETAILS

LENGTH OF INLET \ RADIUS OF RETURN	20'	25'	30'	35'	40'	45'	50'
4'	1 1/8"	1"	3/4"	5/8"	5/8"	1/2"	1/2"
5'	1 7/8"	1 1/2"	1 1/4"	1"	7/8"	7/8"	3/4"
6'	2 5/8"	2 1/8"	1 3/4"	1 1/2"	1 3/8"	1 1/4"	1"
7'		2 7/8"	2 3/8"	2 1/8"	1 7/8"	1 3/8"	1 1/2"
8'			3 1/8"	2 3/4"	2 3/8"	2 1/8"	1 7/8"
9'					3"	2 5/8"	2 3/8"
10'							3"

CURB OFFSETS

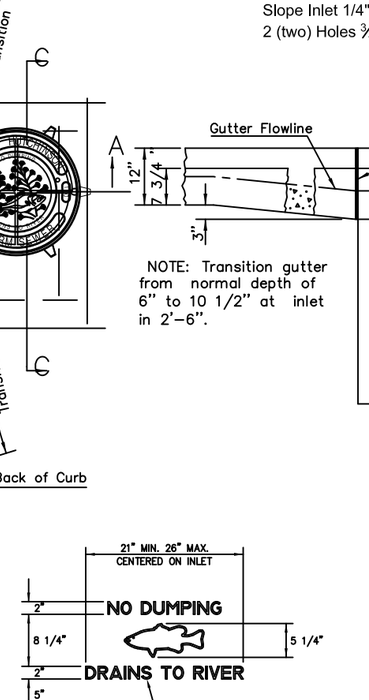
NOTE: All reinforcing shall be #4 at 6" centers except where noted. Minimum clear distance to reinforcement shall be 1 1/2 ".

❀❀ At the Contractors option, gutter may be constructed continuous, L bars omitted, and a 1/2' Expansion joint installed between gutter and face of inlet and between curb and side of inlet with a tar paper joint between bottom of gutter and top of wall. In this method of construction, the inlet shall be completely free of the gutter and curb.



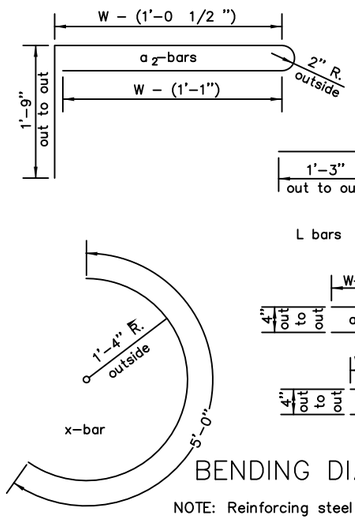
PLAN

╪ Hot or cold poured joint sealing compound or premolded Exp. Jt. Filler (Nonextruding, Type B).



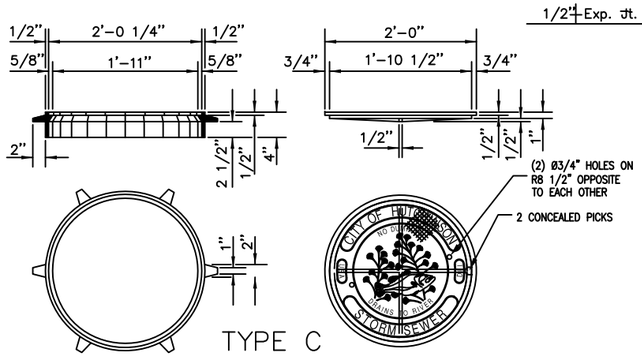
NOTE: Transition gutter from normal depth of 6" to 10 1/2" at inlet in 2'–6".

ELEVATION



BENDING DIAGRAMS

NOTE: Reinforcing steel for L bars is not included in the steel quantity and is subsidiary to the other inlet items.



TYPE C

✳CAST IRON MANHOLE RING

Weight = 53 lbs.

CAST IRON MANHOLE COVER

Weight = 64 lbs.

✳ Rings with four equally spaced lugs will be permitted.

PLAN

NOT TO SCALE

CURB INLET STAMP

NOTE: The 'Curb inlet stamp' is to be placed on all inlets.

No.	Date	Revisions	By	App'd
8	1/06	Added "No Dumping – Drains to River" design to manhole covers	PLM	HHM
7	6/05	Added "Curb Inlet Stamp"	PLM	HHM
6	7/03	Removed information concerning placing of concrete inverts in inlets.	PLM	HHM
5	7/03	Corrected various notes & added pipe location (vert. & horiz.) to Sec. A–A	PLM	HHM
4	10/01	Min 4" Dim added to opening of inlet throat on sec A–A	PLM	HHM
3	1/01	Dimension 10 1/2" on Sec detail	PLM	HHM
2	1/01	Add steel in inlet, & gen notes	PLM	HHM
1	11/99	Changed view of throat–Sec.A–A	CRE	HHM

CITY OF HUTCHINSON, KANSAS
ENGINEERING DEPARTMENT

STANDARD DETAILS FOR TYPE 22 RADIUS CURB INLET

STANDARD DETAIL 15	Date: April, 1998 Drawn By: B.L.G. Approved By: H.H.M.	SHEET NUMBER __ of __