DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

http://www.dot.state.tx.us/ftw/specinfo/standard.htm ci3ob02fw.dgn

LEVELS DISPLAYED 1

6'-0" Transition | 5'-0", 10'-0", 15'-0", & 20'-0" Street Inlet Length of Opening "L" Transverse Beam provided on 5'-0" centers | 6'-0" Transition

Symmetrical about ℄ | Lip of Gutter | Normal lip of gutter | Lip of Back Apron | Transverse Beams | Depressed Gutter | 6'-7 3/16" R | 1/2 " Premolded Exp. Joint Material

BACK ELEVATION FRONT

Place ring and cover in the section of inlet nearest the outfall end, unless otherwise directed by the Engineer.

Field cut or bend Bars B,C,E,& G to clear manhole.

4 BARS J (3'-0" long) | BARS C | BARS D | BARS F2 | BARS F1 | BARS C Top & Bottom | BARS E Top | BARS G Top, Bottom, & Ends | BARS B Top | BARS A | 1/2 " Premolded Exp. Joint Material | 1'-7 1/4" Dia. Formed hole and 1'-9" Dia. Recess for Ring and Cover

Note:
1 ft. dimension for back opening is maximum for inlet on grade. Elevations of rear apron lip and rear inlet opening shall be constant across the length of the inlet at all times.

CONTROL POINT

PLAN

Note:
Front & rear aprons, curbs, and top to be constructed during Stage II.

CONC REDUCT TABLE	
Dia.	C.Y.
18"	0.05
24"	0.09
30"	0.14
36"	0.20
42"	0.26
48"	0.36

Slope top of inlet toward street @ 1/4" per ft. (Underside is level) | Back of Curb | BAR D | BARS G | BARS C | BARS B | BARS E | BARS M | BARS N | BARS D | BARS F2 | BARS A | BARS C @ 7 1/2" c-c | Steps @ 12" c-c (Staggered) | Permissible Const. Jt. | Permissible Const. Jt. (Limit of Stage I Construction) | Top Elevation of Inlet At Control Point | Curb Height | Transverse Beam | Conc. Riprap (See Plans For Details) | Optional Const. Jt. | BARS G

NOTE: Bars "B" Form Grate For Back Opening

SECTION A-A

Corrugations to be 1/4" W x 1/8" H | Lifting Ring | Cover | Ring

CAST IRON RING & COVER DETAIL

FRONT THROAT DIMENSION X	
CURB HEIGHT	X
5"	5"
6"	5 7/8"
7"	6 1/4"
8"	6 1/2"

BARS F2 | BARS F1

BARS C, D, & E

5'-8" (5' Opening)	C&E
16'-8" (5' Opening)	D
10'-8" (10' Opening)	C&E
21'-8" (10' Opening)	D
15'-8" (15' Opening)	C&E
26'-8" (15' Opening)	D
20'-8" (20' Opening)	C&E
31'-8" (20' Opening)	D

BARS N | BARS M | BARS O | BARS M (TOP) | BARS N (BOTTOM)

TOP VIEW

BARS O | BARS A | BARS M | BARS N | SIDE SECTION | FRONT VIEW

TRANSVERSE BEAM DETAIL
(Beams Provided On 5'-0" Centers)

BARS O

STEP DETAIL

BARS B

* Note: Dimension shown for 5" curb. Increase length by 1" for each additional 1" of curb height

GENERAL NOTES

1. All concrete shall be Class "A".
2. Chamfer all exposed corners 3/4" except where otherwise noted.
3. Dimensions related to reinforcing steel are to the centers of bars.
4. Field cut and bend bars as necessary to accommodate storm drain pipe.
5. Cast iron ring and cover shall conform to Item 471.
6. During Stage 1 construction, inlets will not be constructed above subgrade elevation unless permission is granted by the Engineer.
7. A temporary wood cover shall be installed after Stage 1 is completed, and will remain in place until Stage 2 begins.
8. The location of inlet as shown in the plans refers to the control point at the face of curb and mid-point of the inlet.
9. A sealed 1/2" expansion joint shall be placed along all vertical faces abutting concrete pavement. Class 3, 4, 5, or 7 joint sealant shall be used to seal joint.

20' Street Inlet 'D'=4.00' (Includes 3 Transverse Beams)												
Bars	M	N	O	A*	B	C	D	E	F1*	F2*	G	J
Number	6	6	15	34	34	12	6	7	16	34	80	4
Size	#4	#4	#4	#4	#4	#4	#4	#6	#4	#4	#4	#4
Spacing	—	—	12"	7 1/2"	7 1/2"	—	—	—	7 1/2"	7 1/2"	7 1/2"	—
Length	5'-11"	6'-3"	4'-5"	5'-5"	6'-4"	20'-8"	31'-8"	20'-8"	4'-9"	4'-6"	4'-8"	3'-0"
Weight	24	25	44	123	144	166	127	217	51	102	249	8
				Totals		Steel=1280 Lbs.			Conc.=9.39 C.Y.			
For Depth over 4'	Steel=1280 Lbs. •110.3 Lbs/LF					Conc.=9.39 C.Y. •0.926 CY/LF						

15' Street Inlet 'D'=4.00' (Includes 2 Transverse Beams)												
Bars	M	N	O	A*	B	C	D	E	F1*	F2*	G	J
Number	4	4	10	26	26	12	6	7	16	26	64	4
Size	#4	#4	#4	#4	#4	#4	#4	#6	#4	#4	#4	#4
Spacing	—	—	12"	7 1/2"	7 1/2"	—	Shown	—	7 1/2"	7 1/2"	7 1/2"	—
Length	5'-11"	6'-3"	4'-5"	5'-5"	6'-4"	15'-8"	26'-8"	15'-8"	4'-9"	4'-6"	4'-8"	3'-0"
Weight	16	17	30	94	110	126	107	165	51	78	200	8
				Totals		Steel=1002 Lbs.			Conc.=7.35 C.Y.			
For Depth over 4'	Steel=1002Lbs. •93.9 Lbs/LF					Conc.=7.35 C.Y. •0.741 CY/LF						

10' Street Inlet 'D'=4.00' (Includes 1 Transverse Beam)												
Bars	M	N	O	A*	B	C	D	E	F1*	F2*	G	J
Number	2	2	5	18	18	12	6	7	16	18	48	4
Size	#4	#4	#4	#4	#4	#4	#4	#6	#4	#4	#4	#4
Spacing	—	—	12"	7 1/2"	7 1/2"	—	—	—	7 1/2"	7 1/2"	7 1/2"	—
Length	5'-11"	6'-3"	4'-5"	5'-5"	6'-4"	10'-8"	21'-8"	10'-8"	4'-9"	4'-6"	4'-8"	3'-0"
Weight	8	8	15	65	76	86	87	112	51	54	150	8
				Totals		Steel=720 Lbs.			Conc.=5.60 C.Y.			
For Depth over 4'	Steel=720 Lbs. •67. Lbs/LF					Conc.=5.60 C.Y. •0.556 CY/LF						

5' Street Inlet 'D'=4.00'									
Bars	A*	B	C	D	E	F1*	F2*	G	J
Number	10	10	12	6	7	16	10	34	4
Size	#4	#4	#4	#4	#6	#4	#4	#4	#4
Spacing	7 1/2"	7 1/2"	—	Shown	—	7 1/2"	7 1/2"	7 1/2"	—
Length	5'-5"	6'-4"	5'-8"	16'-8"	5'-8"	4'-9"	4'-6"	4'-8"	3'-0"
Weight	36	42	45	67	60	50	30	106	8
		Totals		Steel=445 Lbs.			Conc.=3.28 C.Y.		
For Depth over 4'	Steel=444 Lbs. •46.2 Lbs./LF					Conc.=3.28 C.Y. •0.370 CY/LF			

Note: Maximum Depth of Inlet Shall Be 10'.

Texas Department of Transportation
FORT WORTH DISTRICT
TYPE 3 CURB INLET
12" OPEN BACK INLET
FOR W/ 5" TO 8" BARRIER CURB
5',10',15' & 20' OPENINGS
CI(3)(OB)-02(FW)

FED.RD. DIV.NO.	PROJECT NO.		SHEET NO.
6			
STATE	DIST.	COUNTY	
TEXAS	FW		
CONT.	SECT.	JOB	HIGHWAY NO.

New August 2002

© 2002 by Texas Department of Transportation; all rights reserved