

# INLET CALCULATION CHART

No.	INLET LOCATION STREET NAME	Design Storm Frequency (YEARS)	Time of "c" (MIN)	AREA RUNOFF Q=QIA			Runoff (cfs)	Carry-Over From Upstream Inlet (cfs)	Total Gutter Flow (cfs)	Gutter Slope (%)	Street Capacity (ROW-ROW) (cfs)	Crown Type	SELECTED INLET			Inter-cepted Flow (cfs)	Carry-Over To Dnstream Inlet (cfs)	Carry-Over To Dnstream Inlet No.
				Intensity (in/hr)	Runoff Coefficient	Area In Acres							Length (FEET)	Type	Capacity (cfs)			
1*	8+60 Faircrest (Exist.Ph. III)	100	10	9.80	0.50	0.87	4.29	0	4.29	2.40	18.13	6" Par.	10'	Curb	5.90	4.29	0	-
2*	8+60 Faircrest (Exist.Ph. III)	100	10	9.80	0.50	0.87	4.29	0	4.29	2.40	18.13	6" Par.	10'	Curb	5.90	4.29	0	-
3	0+60 Alley '10'	100	10	9.80	0.50	1.34	6.57	0	6.57	3.00	18.2	5" Inv	10'	Curb	5.70	5.70	0.87	4,5
4*	0+58 Cliffbrook	100	10	9.80	0.50	1.02	5.03	0.43	5.46	0.60	16.2	6" Par.	10'	Curb	7.00	5.46	0	-
5*	0+58 Cliffbrook	100	10	9.80	0.50	1.02	5.03	0.43	5.46	0.80	18.7	6" Par.	10'	Curb	6.80	5.46	0	-
6	Creekridge Cul-de-sac	100	10	9.80	0.50	2.76	13.52	0	13.52	Sag	N/A	6" Par.	10'	Curb	21.0	13.52	0	-
7	0+55 Deerwood	100	10	9.80	0.50	0.40	1.96	0	1.96	1.80	28.1	6" Par.	10'	Curb	6.40	1.96	0	-
8	0+55 Deerwood	100	10	9.80	0.50	1.45	7.10	0	7.10	1.80	28.1	6" Par.	15'	Curb	10.10	7.10	0	-
9	14+40 Hickory Creek	100	10	9.80	0.50	0.72	3.53	0	2.80	2.00	29.6	6" Par.	10'	Curb	6.10	3.53	0	-
10	14+40 Hickory Creek	100	10	9.80	0.50	0.42	2.06	0	2.79	2.40	32.5	6" Par.	10'	Curb	5.90	2.06	0	-
11	1+50 Alley '17'	100	10	9.80	0.50	1.07	5.24	0	5.24	Sag	N/A	5" Inv	10'	Curb	21.0	5.24	0	-
12	5+08.33 Alley '14'	100	10	9.80	0.50	1.93	9.46	0	9.46	Sag	N/A	5" Inv	10'	Curb	21.0	9.46	0	-
13*	25+77 Hickory Creek	100	10	9.80	0.50	2.13	10.46	0	10.46	Sag	N/A	6" Par.	10'	Curb	21.0	10.46	0	-
14*	25+77 Hickory Creek	100	10	9.80	0.50	2.13	10.46	0	10.46	Sag	N/A	6" Par.	10'	Curb	21.0	10.46	0	-
15	13+00 Alley '7'	100	10	9.80	0.50	3.64	17.84	0	17.84	Sag	N/A	5" Inv	10'	Curb	21.0	17.84	0	-
16	13+90 Wildrose	100	10	9.80	0.50	0.25	1.23	0	1.23	2.00	29.6	6" Par.	10'	Curb	6.10	1.23	0	-
17	13+90 Wildrose	100	10	9.80	0.50	1.64	8.03	0	8.03	2.00	29.6	6" Par.	15'	Curb	10.0	8.03	0	-
18	0+56 Westbury	100	10	9.80	0.50	1.05	5.64	0	5.64	1.20	23.0	6" Par.	10'	Curb	6.50	5.64	0	-
19	0+56 Westbury	100	10	9.80	0.50	0.80	3.92	0	3.92	1.20	23.0	6" Par.	10'	Curb	6.50	3.92	0	-
20	1+05 Alley '13'	100	10	9.80	0.50	1.96	9.60	0	9.60	1.94	14.8	5" Inv	10'	Curb	6.10	6.10	3.50	23
21*	0+95 Wildrose	100	10	9.80	0.50	1.91	9.36	0	9.36	2.38	32.3	6" Par.	15'	Curb	9.80	9.36	0	-
22*	0+95 Wildrose	100	10	9.80	0.50	1.91	9.36	0	9.36	2.38	32.3	6" Par.	15'	Curb	9.80	9.36	0	-
23	Barksdale/Wildrose	100	10	9.80	0.50	2.78	13.62	3.50	17.12	Sag	N/A	6" Par.	10'	Curb	21.0	17.12	0	-
24	0+75 Alley '12'	100	10	9.80	0.50	3.00	14.70	0	14.70	1.80	14.7	5" Inv	15'	Curb	10.10	10.10	4.60	25
25	0+65 Alley '11'	100	10	9.80	0.50	1.44	7.06	4.60	11.06	0.94	11.1	5" Inv	15'	Curb	10.40	10.40	0.66	29
26	7+10 Cliffbrook	100	10	9.80	0.50	0.14	0.69	1.79	2.48	2.00	29.6	6" Par.	10'	Curb	6.10	2.48	0	-
27	7+10 Cliffbrook	100	10	9.80	0.50	2.06	10.09	0	10.09	2.00	29.6	6" Par.	15'	Curb	10.0	8.30	1.79	26
28	0+50 Chesterwood	100	10	9.80	0.50	0.72	3.53	0.02	3.55	1.20	23.0	6" Par.	10'	Curb	6.50	3.55	0	-
29	0+50 Chesterwood	100	10	9.80	0.50	0.86	4.21	1.76	5.97	1.20	23.0	6" Par.	10'	Curb	6.50	5.97	0	-
30	5+43 Chesterwood	100	10	9.80	0.50	0.74	3.63	2.69	6.32	1.60	26.5	6" Par.	10'	Curb	6.30	6.30	0.02	28
31	5+43 Chesterwood	100	10	9.80	0.50	2.06	10.09	0	10.09	1.60	26.5	6" Par.	10'	Curb	6.30	6.30	2.69	30
																1.10	30	29
33	Coolwood Cul-de-sac	100	10	9.80	0.50	1.50	7.35	0	7.35	Sag	N/A	6" Par.	10'	Curb	21.0	7.35	0	-
34	14+65 Chesterwood	100	10	9.80	0.50	0.18	0.88	2.87	3.75	1.00	21.0	6" Par.	10'	Curb	6.60	3.75	0	-
35	14+65 Chesterwood	100	10	9.80	0.50	1.78	8.72	0	8.72	1.00	21.0	6" Par.	10'	Curb	6.60	5.85	2.87	34

Cap. to Crown = 4.54cfs, Flow Equalizes to Both Sides of St.

Cap. to Crown = 7.85cfs per gutter

Cap. to Crown = 8.30cfs per gutter

Cap. to Crown = 9.05cfs per gutter

Cap. to Crown = 4.54cfs, Flow Equalizes to Both Sides of St.

Cap. to Crown = 8.30cfs per gutter

Cap. to Crown = 6.40cfs per gutter

Cap. to Crown = 9.03cfs, Flow Equalizes to Both Sides of St.

Cap. to Crown = 8.30cfs per gutter

Cap. to Crown = 6.40cfs per gutter

Cap. to Crown = 7.40cfs per gutter

Cap. to Crown = 5.85cfs per gutter

\* = Represents 1/2 Of The Drainage Area

# STORM SEWER CALCULATION CHART

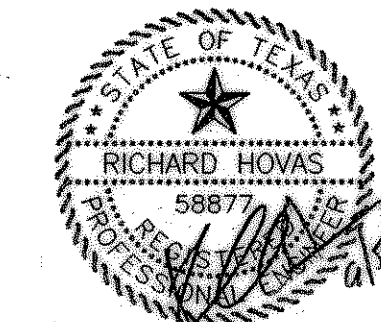
PF = PIPE IN PARTIAL FLOW, HYD. SLOPE=PIPE SLOPE

UPSTREAM STATION	DOWNSTREAM STATION	DISTANCE BETWEEN COLLECTION POINTS (FEET)	INLET NUMBER	INCREMENTAL "Q" (CFS)	ACCUMULATED "Q" (CFS)	PIPE SIZE (INCHES)	HYDRAULIC SLOPE (FT/FT)	VELOCITY (FPS)	VELOCITY HEAD LOSS $\frac{V^2}{2G}$ (FT)
LINE 'A'									
9+88	9+57	31	18	5.64	5.64	18	0.0246	8.08	PF
9+57	7+71	186	19	3.92	9.56	18	0.0083	5.41	0.45
7+71	6+27	144	20	6.10	15.66	21	0.0098	6.51	0.66
6+27	6+03	24	21,22	18.72	34.38	27	0.0123	8.65	1.16
6+03	4+05	198	23	17.12	51.50	30	0.0158	10.49	1.71
4+05	3+09	96	24	10.10	61.60	33	0.0136	10.37	1.67
3+09	2+40	69	25	10.40	72.00	36	0.0117	10.19	1.61
2+40	1+02	138	'B','C'	30.44	102.44	42	0.0104	10.65	1.76
1+02	0+78	24		-	102.44	48	0.0051	8.15	1.03
LINE 'B'									
4+05	3+81	24	31	6.30	6.30	18	0.0194	7.74	PF
3+81	0+00	381	30	6.30	12.60	18	0.0144	7.13	0.79
LINE 'C'									
1+79	1+53	26	26	2.48	2.48	18	0.0006	1.40	0.03
1+53	0+81	72	27	8.30	10.78	21	0.0046	4.48	0.31
0+81	0+00	81	28,29	9.52	20.30	24	0.0080	6.46	0.65
LINE 'D'									
1+05	0+81	24	21	9.36	9.36	18	0.0336	10.82	PF
0+81	0+00	81	22	9.36	18.72	18	0.0140	7.78	0.94
LINE 'E'									
3+60	2+37	123	12	9.46	9.46	21	0.0280	10.10	PF
2+37	1+95	42	13	10.46	19.92	24	0.0078	6.34	0.62
1+95	0+45	150	14	10.46	30.38	24	0.0360	12.50	PF
0+45	0+24	21	15	17.84	48.22	36	0.0052	6.82	0.72
LINE 'F'									
1+20	0+81	39	17	8.03	8.03	18	0.0080	5.97	PF
0+81	0+24	57	16	1.23	9.26	18	0.0080	6.06	PF
LINE 'K'									
4+20	3+81	39	35	5.85	5.85	18	0.0031	3.31	0.17
3+81	3+00	81	34	3.75	9.60	18	0.0084	5.43	0.46

Bench Mark 1  
A Standard U.S.C.&G.S. Disk Stamped 'M 929 1946'  
Approx. 1.9 miles southeast along State Hwy. 205  
from Courthouse at Rockwall to bridge at Buffalo  
Creek, at the northwest corner of the concrete  
bridge in the top of the concrete guardrail base  
approx. 17 feet southwest of the centerline of the  
highway, and approx. 3 feet southeast of the northwest  
end of the guardrail base.  
Elevation = 524.85  
Bench Mark 2  
Top of Concrete ROW Marker, approx. 1.6 miles  
southeast along State Hwy. 205 and then approx.  
0.6 miles east along FM 276 to intersection of  
paved road, at fence corner at southwest quadrant  
of intersection.  
Elevation = 543.10

**AS BUILT PLANS**  
03/28/2002

The alignment and grade were set on the ground for construction per the plans. The engineer did not verify alignment or grades after construction. We are not aware of any changes or revisions to these plans during construction except as noted.



<b>INLET CALCULATIONS</b>						
MEADOWCREEK ESTATES PHASE IV						
City Of Rockwall, Texas						
<b>TIPTON ENGINEERING, INC.</b>						
6330 Broadway Blvd. ~ Suite C ~ Garland, Texas 75043						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
T.E. Inc.	T.E. Inc.	1-2001	1"=100'		4405	<b>22</b>