WinStorm (STORM DRAIN DESIGN) Version 3.05, Jan. 25, 2002
Run @ 10/3/2007 8:08:32 AM

PROJECT NAME : SYSTEM C INLETS
JOB NUMBER :
PROJECT DESCRIPTION :
DESIGN FREQUENCY : 25 Years
MEASUREMENT UNITS: ENGLISH

OUTPUT FOR DESIGN FREQUENCY of: 25 Years

Runoff Computation for Design Frequency.

ID	C Value	Area (acre)	Tc (min)	Tc Used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
C-2	0.9	0.44	10.00	10.00	8.25	0.000	3.262
C-3	0.9	0.17	10.00	10.00	8.25	0.000	1.272
C-4	0.9	0.32	10.00	10.00	8.25	0.000	2.372
C-5	0.9	1.15	10.00	10.00	8.25	0.000	8.566
C-1	0.9	0.23	10.00	10.00	8.25	0.000	1.682

On Grade Inlet Configuration Data

Inlet ID	Inlet Type	Inlet Length (ft)	Slopes Long (%)	Slopes Trans (%)	Gutter n	Gutter Depr. (ft)	Grate Width (ft)	Grate Type	Pond Width Allowed (ft)	Critic Elev. (ft)
C-2	Curb	10.00	1.06	2.00	0.016	0.25	n/a	n/a	14.00	521.87
C-3	Curb	10.00	3.09	2.00	0.016	0.25	n/a	n/a	14.00	519.34
C-4	Curb	15.00	3.53	2.60	0.016	0.25	n/a	n/a	14.00	513.05
C-5	Curb	15.00	3.53	2.00	0.016	0.25	n/a	n/a	14.00	513.57
C-1	Curb	15.00	3.53	3.60	0.016	0.25	n/a	n/a	14.00	509.10

On Grade Inlets Conmputation Data.

Inlet ID	Inlet Type	Total Q (cfs)	Intercept Capacity (cfs)	Q Bypass Allow (cfs)	Q Bypass Actual (cfs)	To Inlet ID	Required Length (ft)	Actual Length (ft)	Ponded Width (ft)
C-2	Curb	3.262	3.120	0.000	0.143	C-3	12.13	10.00	11.10
C-3	Curb	1.414	1.414	0.000	0.000	C-4	10.12	10.00	6.65
C-4	Curb	2.372	2.372	0.000	0.000		12.99	15.00	6.69
C-5	Curb	8.566	6.490	0.000	2.076	C-1	27.52	15.00	12.75
C-1	Curb	3.758	3.755	0.000	0.003		15.29	15.00	6.47

END

NORMAL TERMINATION OF WINSTORM.

WinStorm (STORM DRAIN DESIGN) Version 3.05, Jan. 25, 2002
Run @ 10/3/2007 8:08:59 AM

PROJECT NAME : SYSTEM J INLETS
JOB NUMBER :
PROJECT DESCRIPTION :
DESIGN FREQUENCY : 25 Years
MEASUREMENT UNITS: ENGLISH

OUTPUT FOR DESIGN FREQUENCY of: 25 Years

Runoff Computation for Design Frequency.

ID	C Value	Area (acre)	Tc (min)	Tc Used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
J-1	0.9	0.67	10.00	10.00	8.25	0.000	4.967
J-2	0.812	0.32	10.00	10.00	8.25	0.000	2.176
	0.9	0.27	Pavement				
	0.35	0.05	Undeveloped				
J-8	0.748	0.38	10.00	10.00	8.25	0.000	2.350
	0.9	0.28	Pavement				
	0.35	0.11	Undeveloped				
J-7	0.748	1.06	10.00	10.00	8.25	0.000	6.525
	0.9	0.76	Pavement				
	0.35	0.29	Undeveloped				
J-3	0.9	0.70	10.00	10.00	8.25	0.000	5.198
J-4	0.9	0.28	10.00	10.00	8.25	0.000	2.067
J-5	0.9	0.76	10.00	10.00	8.25	0.000	5.679
J-6	0.9	0.28	10.00	10.00	8.25	0.000	2.046

On Grade Inlet Configuration Data

Inlet ID	Inlet Type	Inlet Length (ft)	Slopes Long (%)	Slopes Trans (%)	Gutter n	Gutter Depr. (ft)	Grate Width (ft)	Grate Type	Pond Width Allowed (ft)	Critic Elev. (ft)
J-1	Curb	15.00	0.80	2.00	0.016	0.25	n/a	n/a	14.00	501.53
J-8	Curb	15.00	1.15	2.00	0.016	0.25	n/a	n/a	14.00	501.45
J-7	Curb	15.00	3.67	2.00	0.016	0.25	n/a	n/a	14.00	506.27
J-3	Curb	15.00	0.80	2.00	0.016	0.25	n/a	n/a	14.00	501.54
J-5	Curb	15.00	3.67	2.00	0.016	0.25	n/a	n/a	14.00	506.27
J-6	Curb	15.00	1.15	2.00	0.016	0.25	n/a	n/a	14.00	501.45

On Grade Inlets Conmputation Data.

Inlet ID	Inlet Type	Total Q (cfs)	Intercept Capacity (cfs)	Q Bypass Allow (cfs)	Q Bypass Actual (cfs)	To Inlet ID	Required Length (ft)	Actual Length (ft)	Ponded Width (ft)
J-1	Curb	4.967	4.967	0.000	0.000	J-2	14.43	15.00	13.70
J-8	Curb	3.438	3.438	0.000	0.000	J-2	12.73	15.00	11.15
J-7	Curb	6.525	5.438	0.000	1.087	J-8	23.79	15.00	11.40
J-3	Curb	5.198	5.198	0.000	0.000	J-4	14.82	15.00	13.95
J-5	Curb	5.679	4.951	0.000	0.728	J-6	22.04	15.00	10.85
J-6	Curb	2.774	2.774	0.000	0.000	J-4	11.31	15.00	10.30

Sag Inlets Configuration Data.

Inlet ID	Inlet Type	Length/ Perim. (ft)	Grate Area (sf)	Left-Slope Long (%)	Left-Slope Trans (%)	Right-Slope Long (%)	Right-Slope Trans (%)	Gutter n	Gutter DeprW (ft)	Depth Allowed (ft)	Critic Elev. (ft)
J-2	Curb	15.00	n/a	0.10	2.00	0.10	2.00	0.016	2.00	0.42	500.92
J-4	Curb	15.00	n/a	0.10	2.00	0.10	2.00	0.016	2.00	0.42	500.92

Sag Inlets Computation Data.

Inlet ID	Inlet Type	Length (ft)	Grate Perim (ft)	Grate Area (sf)	Total Q (cfs)	Inlet Capacity (cfs)	Total Head (ft)	Ponded Width Left (ft)	Ponded Width Right (ft)
J-2	Curb	15.00	n/a	n/a	2.176	11.503	0.137	12.80	9.80
J-4	Curb	15.00	n/a	n/a	2.067	11.503	0.133	12.55	9.60

END

NORMAL TERMINATION OF WINSTORM.

COMPUTATION SHEETS

1. THIS OUTPUT FILE SHOWS RESULTS FOR ROCKWALL'S 25-YR DISCHARGE CONDITIONS TO SIZE AND PLACE INLETS.
2. ALL COMPUTATIONS ARE BASED ON EXISTING WATERSHED CONDITIONS
3. MAXIMUM ALLOWABLE PONDED WIDTH USED FOR DESIGN IS 14' PER CITY OF ROCKWALL VARIANCE.

RECORD DRAWING

This drawing is a compilation of the original sealed engineering drawing and modifications by addenda, change orders and information furnished by the contractor. Information shown that was provided by the contractor and others not associated with the design engineer cannot be verified for accuracy or completeness. Original sealed drawing is on file at the office of AECOM USA Group, Inc., TBPE REG. NO. F-3062

ORIGINAL DRAWING SEALED & SIGNED BY
Matthew L. Abbe, P.E.
TX NO. 92715

NO.	REVISION	BY	DATE

City of Rockwall, Texas

205 BYPASS
PHASE 6

HYDRAULIC DATA
SYSTEM C AND J INLETS - 25-YR FLOWS

1 OF 10

TCB | AECOM
TCB INC.
WWW.TCB.AECOM.COM
17300 DALLAS PARKWAY, SUITE 1010
DALLAS, TEXAS 75248

Unit	PW-DAL-FW	Scale: Horz:	AS SHOWN	Date	11/24/2009
Designed	RI	Vert:	AS SHOWN		
Drawn	FG	Checked	TCB	Project No.	60004153
		Approved	TCB	Sheet	68 of 216

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11/24/2009