



**RUNOFF COMPUTATIONS**

#	Area (ft)	Area (acres)	Coefficient	Runoff (min)	Q (100) (cfs)	Q (100) (cfs)
1	6752	1.55	0.50	10	9.8	7.6
2	7126	1.64	0.50	10	9.8	8.0
3	15935	3.66	0.50	10	9.8	17.9
4	37178	0.85	0.50	10	9.8	4.2
5	9501	2.19	0.50	10	9.8	10.7
6	7041	0.16	0.50	10	9.8	0.8

**INLET CALCULATIONS**

Inlet #	Location	Station	Design Storm Frequency (yrs.)	Time of Conc. (min)	Intensity (in/hr)	Runoff "C"	Area (acres)	Q (cfs)	Upstream Flow (cfs)	Carry-Over from Gutter (cfs)	Total Gutter Flow Capacity (cfs)	Gutter Slope (ft/ft)	Crown Type	Selected Inlet Length (ft)	Type	Carry-Over to Down-stream Inlet (cfs)
1	Chatfield	6+16.99	100	10	9.8	0.50	1.55	7.6	0.0	7.6	13.0	0.50%	6" pbl	15	STD.	0.0
2	Chatfield	6+06.74	100	10	9.8	0.50	1.64	8.0	0.0	8.0	13.0	0.50%	6" pbl	15	STD.	0.0
3	Crestbrook	13+44.85	100	10	9.8	0.50	3.66	17.9	0.0	17.9	18.0	0.94%	6" pbl	20	STD.	2.0
4	Crestbrook	13+44.85	100	10	9.8	0.50	0.85	4.2	0.0	4.2	18.0	0.94%	6" pbl	10	STD.	0.0

**LEGEND**

- PROP. STORM SEWER
- PROP. CURB INLETS
- PROP. CONC. HEADWALL
- EXIST. STORM SEWER
- DRAINAGE AREA DIVIDE
- FLOW ARROW
- DRAINAGE AREA NO.

1	ADDED LINE 'D-4', INLET # 4	DS	6-1-11
NO.	REVISIONS	BY	DATE



The seal appearing on this document was authorized by Brandon Davidson P.E. 87682, on August 16, 2012

**AS-BUILT AUGUST 2012**  
 BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY CONTRACTORS

**CORWIN ENGINEERING, INC.**  
 200 W. BELMONT, SUITE E  
 ALLEN, TEXAS 75013 (972) 396-1200  
 TBPE FIRM #5951

**DEVELOPMENT PLANS FOR  
 STONE CREEK PHASE IIA  
 ROCKWALL, TEXAS**

**DRAINAGE AREA MAP**

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
	CEI	CEI	
JOB NUMBER	DATE	SCALE:	
11009	MARCH 2011	1"=60'	3 OF 11