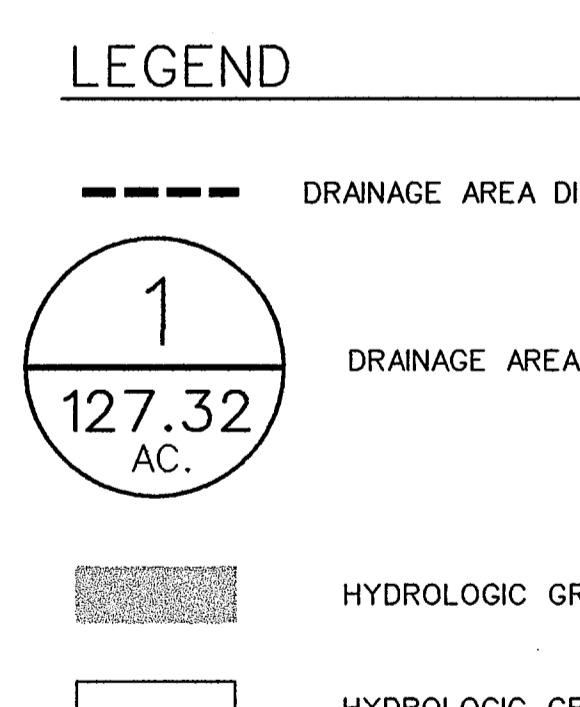
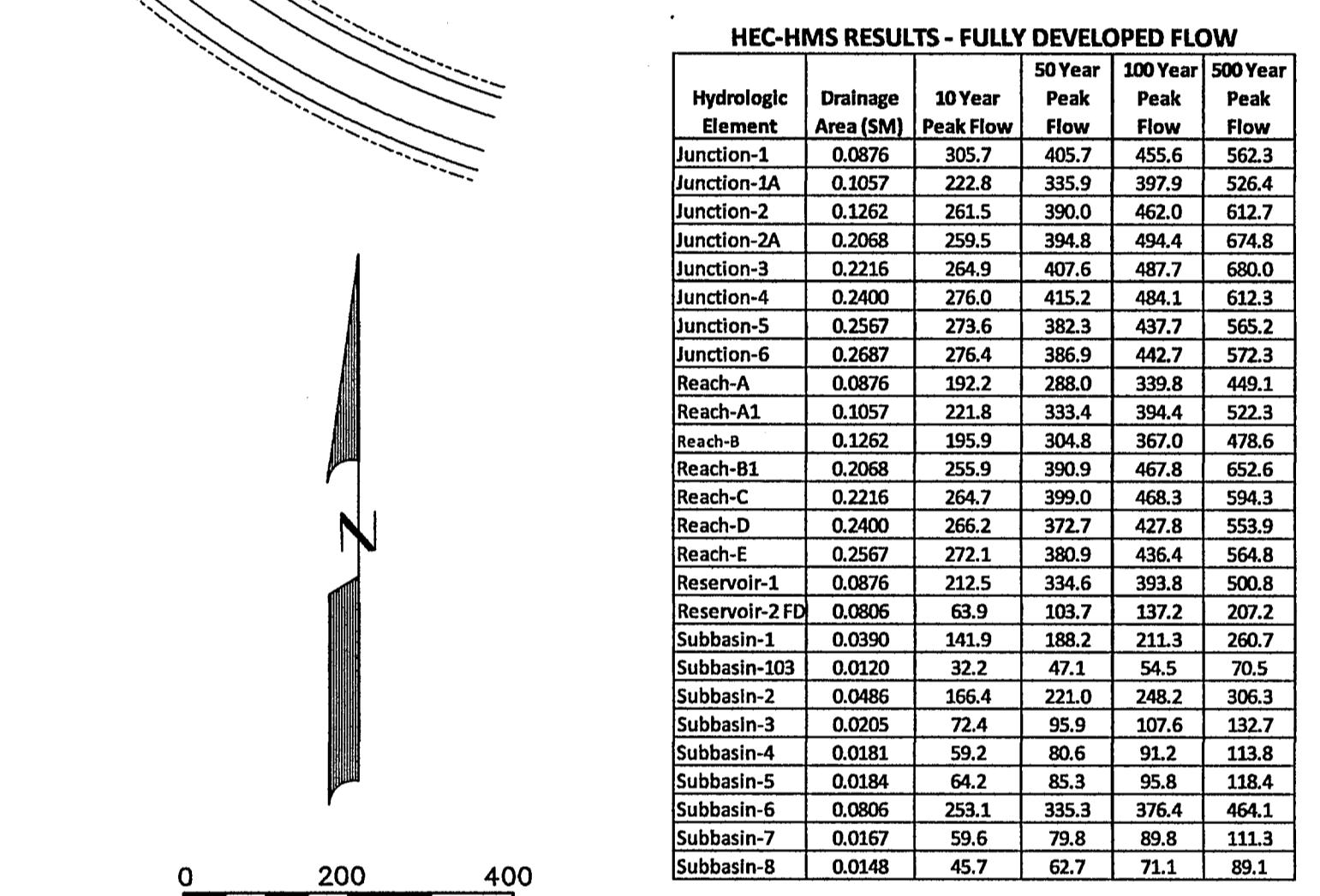


DRAINAGE BASIN ATTRIBUTES - Fully Developed Conditions											
Basin #	Future Land Use			Type C Soil			Type D Soil			Weighted CN	
	Sq. Ft.	Acres	Sq. Mi.	Open Space	1/8 Acre	1/4 Acre	Commercial	Open Space	1/8 Acre	1/4 Acre	Commercial
1	1085911	24.93	0.0390	0	0	0	0	125989	959922	0	95.64
2	1353941	31.08	0.0480	48161	4063	0	0	145775	1155942	0	95.35
3	570777	13.10	0.0205			4660		566117			96.35
4	504706	11.59	0.0181	368816	91291			12316	32273		89.01
5	513765	11.79	0.0184		39074	9758		174875	290058		94.81
6	224740	51.59	0.0805		216192			2031168			96.26
7	465190	10.70	0.0167	171253				85143	56966		92.71
8	411330	9.44	0.0148	366287	14483			30560			87.31
103	333219	7.65	0.0120								76.87

Used Values from MDS



The seal appearing on this document was authorized by Brandon Davidson, P.E. 87682, on February 7, 2013.

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ALLEN, TEXAS 75013 (972)396-1200
TBPE FIRM #5951

DEVELOPMENT PLANS FOR
STONE CREEK PHASE IV
ROCKWALL, TEXAS

FULLY DEVELOPED CONDITIONS DRAINAGE AREA MAP

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER 12033	DATE FEBRUARY 2013	SCALE: 1"=200"	1 OF 1

Appendix F - Time of Concentration Calculations - Fully Developed Conditions											
Basin #	Cover Type	Sheet Flow Slope	n value	Length of Sheet Flow	Time of Sheet Flow	Shallow Concentrated Flow Slope	Cover Type	Shallow Concentrated Flow	Velocity of Channel Flow	Total Time of Concentration	Lag Time
1	Grass	0.0100	0.41	24	3.29	278	Unpaved	2.10	2.20	764	From As-Built
2	Grass	0.0100	0.41	24	3.29	500	0.0150	1.98	4.22	1350	Piped Flow Estimate
3	Grass	0.0100	0.41	24	3.29	414	0.0250	3.21	2.15	1373	From As-Built & Plans
4	Range	0.0827	0.13	100	4.38	122	0.0341	Unpaved	2.98	0.68	3.53
5	Grass	0.0100	0.41	24	3.29	781	0.0200	2.87	4.53	405	From As-Built
6	Grass	0.0100	0.41	24	3.29	500	0.0150	1.98	4.22	3674	Piped Flow Estimate
7	Grass	0.0100	0.41	24	3.29	500	0.0400	3.23	2.58	479	Piped Flow Estimate