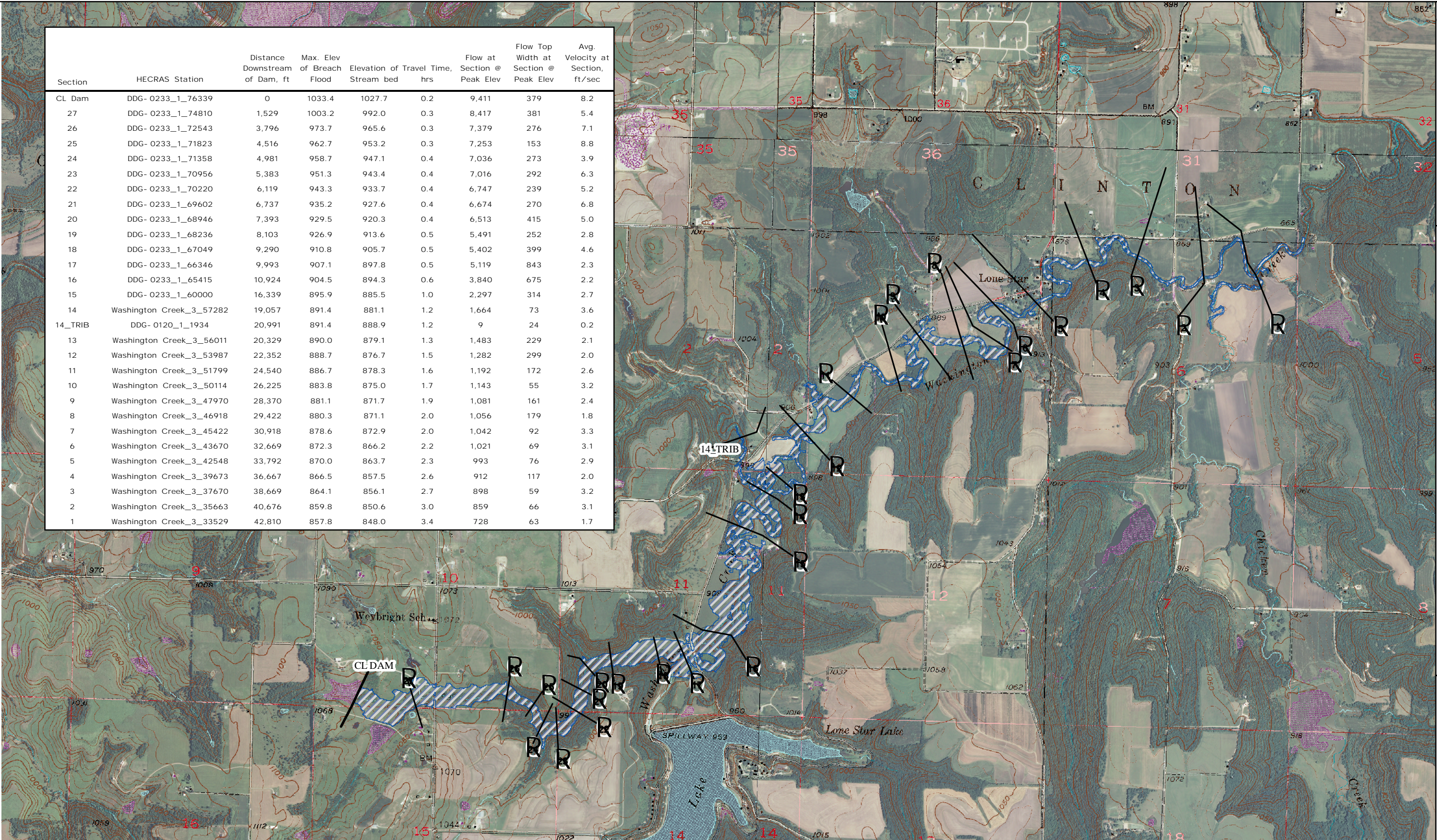
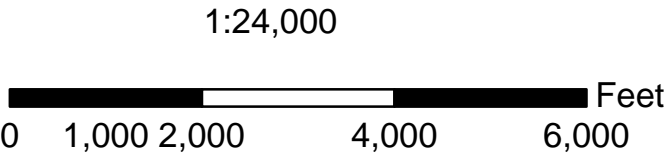


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
CL Dam	DDG- 0233_1_76339	0	1033.4	1027.7	0.2	9,411	379	8.2
27	DDG- 0233_1_74810	1,529	1003.2	992.0	0.3	8,417	381	5.4
26	DDG- 0233_1_72543	3,796	973.7	965.6	0.3	7,379	276	7.1
25	DDG- 0233_1_71823	4,516	962.7	953.2	0.3	7,253	153	8.8
24	DDG- 0233_1_71358	4,981	958.7	947.1	0.4	7,036	273	3.9
23	DDG- 0233_1_70956	5,383	951.3	943.4	0.4	7,016	292	6.3
22	DDG- 0233_1_70220	6,119	943.3	933.7	0.4	6,747	239	5.2
21	DDG- 0233_1_69602	6,737	935.2	927.6	0.4	6,674	270	6.8
20	DDG- 0233_1_68946	7,393	929.5	920.3	0.4	6,513	415	5.0
19	DDG- 0233_1_68236	8,103	926.9	913.6	0.5	5,491	252	2.8
18	DDG- 0233_1_67049	9,290	910.8	905.7	0.5	5,402	399	4.6
17	DDG- 0233_1_66346	9,993	907.1	897.8	0.5	5,119	843	2.3
16	DDG- 0233_1_65415	10,924	904.5	894.3	0.6	3,840	675	2.2
15	DDG- 0233_1_60000	16,339	895.9	885.5	1.0	2,297	314	2.7
14	Washington Creek_3_57282	19,057	891.4	881.1	1.2	1,664	73	3.6
14_TRIB	DDG- 0120_1_1934	20,991	891.4	888.9	1.2	9	24	0.2
13	Washington Creek_3_56011	20,329	890.0	879.1	1.3	1,483	229	2.1
12	Washington Creek_3_53987	22,352	888.7	876.7	1.5	1,282	299	2.0
11	Washington Creek_3_51799	24,540	886.7	878.3	1.6	1,192	172	2.6
10	Washington Creek_3_50114	26,225	883.8	875.0	1.7	1,143	55	3.2
9	Washington Creek_3_47970	28,370	881.1	871.7	1.9	1,081	161	2.4
8	Washington Creek_3_46918	29,422	880.3	871.1	2.0	1,056	179	1.8
7	Washington Creek_3_45422	30,918	878.6	872.9	2.0	1,042	92	3.3
6	Washington Creek_3_43670	32,669	872.3	866.2	2.2	1,021	69	3.1
5	Washington Creek_3_42548	33,792	870.0	863.7	2.3	993	76	2.9
4	Washington Creek_3_39673	36,667	866.5	857.5	2.6	912	117	2.0
3	Washington Creek_3_37670	38,669	864.1	856.1	2.7	898	59	3.2
2	Washington Creek_3_35663	40,676	859.8	850.6	3.0	859	66	3.1
1	Washington Creek_3_33529	42,810	857.8	848.0	3.4	728	63	1.7



* Travel time is measured from the initiation of breach formation to the time the breach wave arrives at the section.

The inundation area was developed based on a breach with the water surface at the higher of the Top of Dam elevation, Cross Sections were developed using 2-meter LIDAR data.



Attachment 1:
Inundation Area
Boundary Map

REVISIONS		
DATE	APPROVED	TITLE

Date	06/20/09
Designed	EWR
Drawn	DMM
Checked	JW
Approved	AGB

DDG-0233 NID-KS04086
DOUGLAS COUNTY, KANSAS



File Name
Drawing Name
07/13/2009
Sheet 1 of 1