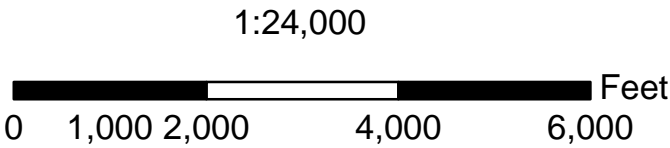


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
9	DDG- 0276_1_7180	4,311	866.1	856.5	0.3	4,552	281	4.9
8	DDG- 0276_1_5448	6,043	855.8	843.8	0.4	3,380	574	1.7
BRIDGE	DDG- 0276- 5363	LOW POINT IN ROAD		853.3				
7	DDG- 0276_1_5226	6,266	848.7	841.5	0.4	3,355	277	4.3
6	DDG- 0276_1_2460	9,032	837.1	831.2	0.6	2,555	733	1.2
CULVERT	DDG- 0276- 2360	LOW POINT IN ROAD		835.9				
5	DDG- 0276_1_2286	9,206	836.0	830.7	0.6	2,511	461	2.5
4	DDG- 0276_1_1706	9,785	832.6	830.2	0.7	2,330	1,153	1.9
3	Wakarusa River_1_23224	11,491	829.7	825.2	1.2	351	402	0.9
3_TRIB	Yankee Tank Ck_1_2338	13,829	833.2	833.1	0.8	132	622	0.6
2	Wakarusa River_1_19880	14,835	823.4	816.7	1.8	330	55	1.9
1	Wakarusa River_1_5772	28,943	807.6	805.3	2.6	209	73	1.3

* 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 Top of Dam elevation. Cross Sections were developed using 2-meter LIDAR data.



Attachment 1:
Inundation Area
Boundary Map

REVISIONS		
DATE	APPROVED	TITLE

Date	Designed	Drawn	Checked	Approved
06/20/09	EWR	DMM	JW	AGB
07/27/2009				
08/20/09				
08/20/09				

DDG-0276 NID-KS00604
DOUGLAS COUNTY, KANSAS



File Name	
Drawing Name	
07/27/2009	
Sheet 1 of 2	