

SITE DATA							HYDROLOGY				HYDRAULICS	
DRAINAGE STRUCTURE NUMBER	LOCATION STATION	DRAINAGE AREA NUMBER	DRAINAGE AREA ACREAGE	RECURRENCE INTERVAL YEARS	A. H. W. ELEVATION FEET	REMARKS	METHOD	DATA	Q <sub>cf/s</sub>	REMARKS	H. W. ELEVATION FEET	REMARKS
MEADOW POND 1	667+23.77 667+23.77 178.20 RT 667+23.77 208.06 LT	WEST BOX 7	54	50	ELEVATED ROAD-WAY DITCH PLUG E = 1317.50	1-7X4 RCB L=386' FL=1312.0 FL=1307.4	HEC-HMS	TL = 46.6 min. CN=88	050 141	NO DETENTION EFFECTS	1315.9	(SBT4) HW-HY8 5943.33
MEADOW POND 2	669+59.30 669+20.54 186.99 RT 670+05.46 228.32 LT	EAST BOX 8	60	50	ELEVATED ROAD-WAY DITCH PLUG W = 1317.50	1-8X4 RCB L=424' FL=1311.0 FL=1307.0	HEC-HMS	TL = 24.84 CN=89	050 243	NO DETENTION EFFECTS	1316.4	(SBT4) HW-HY8 5943.33
PARK EAST DETENTION	687+82.78 687+43.69 171.41 RT 688+27.93 197.96 LT	9	37	50	1325.53	1-10x3 RCB L=379' FL=1320.0 FL=1311.0	HEC-HMS	TL = 9 min. CN=87	050 246	DETENTION STORAGE DESIGN CULVERT Q=130 cfs REQUIRED STORAGE AT H.W. = 3.96 ac ft	1323.24	(SBT4) HY8 OVERFLOW ELEV. FOR RECEIVING POND =1312.2+/-
GREEN VALLEY TRIB.	746+72.82 744+31.72 140.10 RT 749+15.06 140.77 LT	12	577	50	1308.19	1-20x10 RCB L=559' FL=1297.0 FL=1295.0	HEC-HMS	TL = 18.36 min. CN=84	050 1475	DETENTION STORAGE DESIGN CULVERT Q=1651 cfs REQUIRED STORAGE AT H.W. = 54.3 ac ft	1306.85	
FR W	1640+89.79 1641+67.47 85.15 RT 1640+28.98 54.14 LT	K96SW 1	18.8	50	1342.66	30" RCP L=198' FL=1336.2 US FL=1335.5 DS (L INCLUDES LENGTH OF 2-END SECTIONS)	HEC-HMS	TL = 3.4 min. CN=86	050 157	DETENTION STORAGE DESIGN CULVERT Q=41 cfs REQUIRED STORAGE AT H.W. = 2.2 ac ft	1342.05	HEC-HMS DETENTION W/ HY8 RATING
FR E	1655+15.35 1656+65.66 73.43 RT 1654+29.00 50.15 LT	FRI655 K9655 4	18.5	50	1325.58	1-54" RCP L=266' FL=1318.8 US FL=1317.8 DS (L INCLUDES LENGTH OF 1-END SECTIONS)	HEC-HMS	TL = 5.2 min. CN=84	050 148	RECEIVES FLOW FROM RAMP P & R	1325.58	HY8 ANALYSIS Q50 = HW
RAMP P	10644+50.00 10644+50.00 29.25 RT 10644+50.00 57.25 LT	K96SEP 2	6.1	50	1337.21	1-36" RCP L=87' FL=1332.9 US FL=1332.5 DS (L INCLUDES LENGTH OF 2-END SECTIONS)	HEC-HMS	TL = 3 min. CN=97	050 58	DETENTION STORAGE DESIGN CULVERT Q=46 cfs REQUIRED STORAGE AT H.W. = 0.30 ac ft	1336.12	HEC-HMS DETENTION W/ HY8 RATING
RAMP R	10650+50.00 10650+86.04 14.29 RT 10650+17.07 64.76 LT	K96SE2 3	12.8	50	1328.60	1-48" RCP L=144' FL=1320.8 US FL=1319.3 DS (L INCLUDES LENGTH OF 1-END SECTIONS)	HEC-HMS	TL = 3 min. CN=97	050 106	RECEIVES FLOW FROM RAMP P	1326.67	HY8 USING HMS Q50
RAMP Q	20644+50.00 20644+50.00 52.42 RT 20644+50.00 44.42 LT	K96 NE Q 5	4.9	50	1334.73	1-36" RCP L=97' FL=1331.4 US FL=1330.6 DS (L INCLUDES LENGTH OF 2-END SECTIONS)	HEC-HMS	TL = 3 min. CN=97	050 46	DETENTION STORAGE DESIGN CULVERT Q=38 cfs REQUIRED STORAGE AT H.W. = 0.19 ac ft. 24-HR 50-YR PRECIP=7.02" ALL PIPES/CULVERTS	1334.67	HEC-HMS DETENTION W/ HY8 RATING

3:05 PM 2/18/2011 J:\CIVIL\07432\DWG\SW\KEL2RD653.DWG - PLOT CADD DES. - DR. - TR. - CKD. - APP.

**CITY OF WICHITA**  
 EAST KELLOGG  
 DRAINAGE DATA SHEET