1023-05-271 **D J Ashe*** (David-Ashe@utc.edu), Department of Mathematics, Dept 6956, 615 McCallie Avenue, Chattanooga, TN 37403. 2-Regular Leaves of Partial 10-cycle Systems. Preliminary report.

We find necessary and sufficient conditions for the existence of a 10-cycle system of $K_n - E(R)$ where R is any 2-regular not necessarily spanning subgraph R of K_n . We prove this by using many base cases and inductive lemmas. (Received September 01, 2006)