1004-16-206 **Jason P Huffman*** (`jason.huffman@gcsu.edu`), Dept. of Mathematics & Comp. Sci., CBX 017, Milledgeville, GA 31061. *Preserving Properties in a Ring Extension.* Preliminary report.

Let R be an associative ring, not necessarily having unity, and let R^1 denote the standard Dorroh extension of R to a ring with unity. It is well known that the Dorroh extension of a domain is a domain and that $\mathbf{J}(R) = \mathbf{J}(R^1)$ where $\mathbf{J}(R)$ represents the Jacobson radical of R. However, many familiar properties may be lost in the ring extension. Here, we consider the preservation of certain algebraic properties of a ring R in the extension R^1, including the possesion of identities, chains of ideals, and other Amitsur-Kurosh radicals. Special consideration is given to the cases that R is either an algebra over a field F or an algebra over some commutative ring T with identity. (Received January 24, 2005)