In small towns, older adults encounter mobility challenges when engaging in outdoor activities, mainly due to their decreased likelihood of driving independently. The presence of limited alternative modes of transport and dispersed facilities compounds these transportation barriers. To address this issue, introducing autonomous public transit (APT) services in small towns could meet the mobility needs of older adults. Understanding the demand and expectations of older adults regarding APT services in small towns is crucial before the APT implementation. This article employed a qualitative design approach, using in-depth interviews with older adults (60+) in Nolanville, Texas. The study's findings indicated that older adults were interested in APT services and had certain expectations of them but also expressed concerns about safety and mobility. Understanding older adults' expectations is a basis for designing relevant services. Furthermore, amplifying the voices of older adults in small towns who desire APT services can guide industrial partners and government agencies to prioritize and facilitate the implementation of APT.