Center for Advanced Multimodal Mobility Solutions and Education

UTC Project Information – CAMMSE @ UNC Charlotte	
Project Title	Choosing Locations for Installation of Pedestrian Crossing Signs and Safety Measures at Non-signalized Intersections (Phase II)
University	The University of Texas at Austin
Principal Investigator	Randy Machemehl
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Funding Sources and Amount Provided (by each agency or organization)	The University of North Carolina at Charlotte: $93,407 Texas Department of Transportation, Austin District : $46,704
Total Project Cost	$140,111
Agency ID or Contract Number	
Start and End Dates	10/01/2021 – 09/30/2024
Brief Description of Research Project	Numbers of pedestrians crossing streets at non-signalized locations, particularly in suburban areas have been increasing but since the Covid-19 pandemic, numbers of people walking for exercise and fun has increased exponentially. Safety of pedestrians sharing street crossings with automobiles has become increasingly problematic as numbers of pedestrian crossings have increased. A variety of signs and sign configurations are allowed by the Manual on Uniform Traffic Control Devices (MUTCD). Guidance provided by the MUTCD regarding types of signs and particularly mounting locations for pedestrian crossing signs at non-signalized intersections is sparse. A recent study of signage for unsignalized

	pedestrian crossings by the research team showed potentially significant impact of signage location on likelihood of automobile compliance. The objective of this project is to identify optimal locations for signage at unsignalized pedestrian crossing locations, as well as, optimal signage configurations. The proposed work will address at least two CAMMSE research thrusts: Generate innovations in multi-modal planning and modeling for high-growth regions; and Innovations to improve multi-modal connections, system integration and security.
Describe Implementation of Research Outcomes (or why not implemented) *Place Any Photos Here*	
Impacts/Benefits of Implementation (actual, not anticipated)	
Web Links • *Reports* • *Project website*	https://cammse.uncc.edu/sites/cammse.uncc.edu/files/media/CAMMSE-UNCC-2022-UTC-Project-Information-06-Machemehl.pdf https://cammse.charlotte.edu/wp-content/uploads/sites/191/2024/09/CAMMSE-UNCC-2022-UTC-Project-Report-06-Machemehl-Final.pdf