



Local Safety Engineering Assistance Program



Intersection Improvements along East and West 7th St (CR 601) and the Intersection of East Front St (CR 620) and Leland Ave

City of Plainfield, Union County

BACKGROUND

The North Jersey Transportation Planning Authority (NJTPA) has teamed with federal partners, the New Jersey Department of Transportation Local Aid (NJDOT-LA), subregions, and other state and local agencies to improve the safety and reliability of the region's transportation infrastructure. Through two safety funding programs, the Local Safety Program (LSP) and High-Risk Rural Roads Program (HRRRP), NJTPA funds essential high-impact improvements on county and local roadways in urban, suburban, and rural communities. NJTPA has developed a Local Safety Engineering Assistance Program (LSEAP) to provide professional consultant support services for necessary planning and design services and construction document preparation to successful funding program applicants.

THE PROJECT

Through LSEAP, Union County has been awarded funds to plan, design, and construct safety improvements at five intersections within the City of Plainfield:

- E. Front Street & Leland Avenue
- Leland Avenue & E. 7th Street
- Woodland Avenue & E. 7th Street
- Berckman Avenue & E. 7th Street
- Arlington Avenue & E. 7th Street

Each intersection currently warrants improvements due to the presence of outdated traffic signals, poles, mast arms, and related infrastructure, curb ramps that do not all meet Americans with Disabilities Act (ADA) standards, faded crosswalks and pavement markings, as well as the lack of pedestrian signal heads and push buttons.

Planning, evaluation, and design work commenced in December 2019 and the conceptual design has been completed. Proposed improvements include:

- Upgrades to traffic signal infrastructure, timing, and phasing to improve traffic flow and overall operational safety and efficiency
- New traffic signals poles, foundations, mast arms, controller cabinets, and 12-inch LED signal heads (lenses) with reflective backplates to aid visibility
- New ADA-compliant curb ramps with detectable warning surfaces, pedestrian push buttons, pedestrian countdown timers, high visibility crosswalks, and the installation and replacement of regulatory, warning and pedestrian signs at the intersections
- Sidewalks improvements to remove tripping hazards within the vicinity of the intersections
- Vehicle detection technology to automatically adjust signaling timing
- Roadway lighting improvements
- Roadway resurfacing within the intersection limits

The NJTPA and Union County are currently working with Michael Baker International, Inc. (with New Jersey offices in Hamilton and Newark) to advance the design of the five intersections.

ANTICIPATED PROJECT SCHEDULE

Hold Public Information Center (PIC)	Oct 2020
Complete Preliminary Design	Dec 2020
Complete Final Design	Dec 2021
Federal Authorization to Construct	Oct 2022
Begin Construction	March 2023
Construction Substantially Completed	Oct 2023