

Jeremy A. Chrzan, PE, PTOE, LEED AP

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Jeremy Chrzan is a professional engineer with nearly 20 years of experience in transportation, municipal, and site engineering projects. His engineering background is varied, encompassing bicycle, pedestrian, highway, and roundabout design, green street projects, project management and permitting, traffic mitigation, stormwater management, erosion control, maintenance and protection of traffic, utility coordination, and construction management. He has worked with DOTs, Cities, and MPOs throughout the continent to discuss separated bike lane best practices and to implement new design projects. Jeremy uses his technical knowledge of design standards, construction best practices, and years of quality control review experience to identify key project issues and identify constructible engineering solutions. Jeremy combines a background in highway engineering with a passion for bicycle commuting to develop infrastructure for multiple modes of transportation including motor vehicles, mass transit, pedestrians, and cyclists.

REPRESENTATIVE PROJECTS

Capital City Bikeway and Jackson Street Reconstruction, Saint Paul, MN

Jeremy was the engineer of record for the reconstruction of Jackson Street, which involved full reconstruction of the roadway to provide separated bike lanes, enhanced pedestrian areas, green street infrastructure, utility and signal replacements. Jeremy was also involved throughout the planning of the Capital City Bikeway network, which involved significant public engagement and coordination with City staff to identify the preferred bicycle network routing.

2018 AASHTO Guide for the Development of Bicycle Facilities

Jeremy is a contributing author and engineer for the current update for the AASHTO Bike Guide. His focuses have been on bicycle operating characteristics, general design principles for all bicycle facilities, as well as issues relating to separated bike lanes and intersection design. Specific areas of investigation have included sight distance analysis, mountable curb designs, ADA accessibility, and signing and pavement markings for all types of bicycle facilities.

Sigourney Street Separated Bike Lanes, Hartford, CT

Jeremy is serving as the bicycle and pedestrian engineering expert for the CTDOT for the redesign of Sigourney Street. Jeremy reviewed multiple design concepts to identify the solution to best address pedestrian safety along a corridor with bridges, highway on/off ramps, high volume driveways, a roundabout, and Bus Rapid Transit traffic. Jeremy is currently advancing the project from concept design to construction. This project will represent the first separated bike lane and protected intersection in the state.

PennDOT Highway Occupancy Permit (HOP) Reviews, District 6-0

Jeremy managed the PennDOT District 6-0 HOP review contract for more than a decade and was responsible for the review and coordination of hundreds of permit applications. This involved assigning review responsibilities, reviewing plans and reports, preparing review letters, and resolving project deficiencies between PennDOT representatives, municipal officials, project stakeholders, permit applicants, and project engineers and contractors. Jeremy also drafted coordination agreements, condition statements, and maintained the District's list of standard comments.

Route 110 Trail Environment Assessment, Arlington, VA

Jeremy is the Project Manager tasked with preparing the Purpose and Need statement, coordinating public outreach, and overseeing the preparation of NEPA environmental documents for the design of a new multiuse trail adjacent to Arlington National Cemetery. Jeremy has been coordinating this project with the National Park Service, VDOT, and the County as part of the environmental clearance process.

Brandywine Avenue (S.R. 0322) Bridge Replacement, Downingtown, PA

Jeremy was the engineer of record for the roadway improvements associated with a PennDOT Accelerated Bridge project to replace a fracture-critical, three-span bridge with a new single-span bridge. He was responsible for design of the horizontal and vertical alignment, drainage, guiderail and pavement section, bicycle accommodations for PA Bicycle Route "L," development of a maintenance and protection of traffic plan to maintain traffic throughout construction, coordination with the bridge engineer, acquiring utility clearances, preparation of construction specifications, project management and coordination with PennDOT to receive preliminary, 30%, 70%, and 100% review approvals, and construction oversight.

Frankford Avenue (S.R. 0013 / S.R. 2007) Streetscape, Philadelphia, PA

Jeremy was the engineer of record responsible for 1.3 miles of streetscape improvements in compliance with PennDOT and Philadelphia Streets Department design standards. He designed roadway and pedestrian improvements, coordinated efforts with the landscape architect and lighting designer, obtained approvals from impacted utilities (including SEPTA, Philadelphia Water Department and PECO), secured city ordinances for the installation and maintenance of project features, and prepared specifications and bid documents for competitive bidding. Funding for this project was provided by federal, state and private sources.

EDUCATION / CERTIFICATIONS

- B.S. & M.S. in Civil Engineering
Drexel University: 2002
- Professional Engineer:
CA, DC, DE, FL, IN, MD, MN, NJ, PA, & VA
- Professional Traffic Operations Engineer
- LEED Accredited Professional
- NACTO Certified Trainer

EMPLOYMENT EXPERIENCE

- Toole Design Group, Senior Engineer & Associate: 2014-Present
- University of Pennsylvania, Adjunct Professor, Transportation Planning and Operations: 2013
- Pennoni Associates, Project Engineer: 2003-2014
- Pennoni Associates, Technician: 1999-2002

PROFESSIONAL AFFILIATIONS

- ASCE Committee on Sustainability, Policy Member: 2017
- ASCE Committee on Younger Members, Eastern Geographic Member: 2013-2016
- ASCE Philadelphia Section, Webmaster: 2009-2015; 2012 Young Civil Engineer of the Year
- ASCE Phila. Younger Member Forum, President & Executive Board: 2006-2015
- Future City Competition: 7-Year Judge
- Washington Area Bicyclist Association, Member
- Bicycle Coalition of Greater Philadelphia, Member

PUBLICATIONS

- FHWA Achieving Multimodal Networks: 2016
- MassDOT Separated Bike Lane Planning & Design Guide: 2015
- ThinkBike Philadelphia Report, Kingdom of the Netherlands: 2012 (uncredited)
- The Benefits of Younger Member Participation, ASCE National Website: 2013
- Philadelphia Inquirer - Newspapers in Education: 2013