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FORENSIC TRANSPORTATION ENGINEERING
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EDWARD J. MYERS, PE

Senior Principal Engineer

EDUCATION

Bachelor of Science in Civil Engineering, The Pennsylvania State University, 1983

YEARS OF EXPERIENCE

42

LICENSES

Professional Engineer:
MD, PA,DE, NY, GA, KS, KY, FL, OH, SC, NC, VA, MA, DC

AFFILIATIONS

Institute of Transportation Engineers (ITE)

American Consulting Engineers Council of Maryland and Pennsylvania

PROFESSIONAL EXPERIENCE

Kittelson & Associates, Inc.
2000-Present

Ed Myers has over 40 years of extensive experience in all phases of traffic engineering, transportation planning, transit planning, highway design, pedestrian/bicycle design, and civil engineering. He has received several professional excellence awards, particularly for his work on roundabouts; he teaches professional courses and presents to professional organizations around the country. His project experience includes application of methods included in the new versions of the Highway Capacity and Highway Safety Manuals. Ed has also managed numerous roadway design projects throughout the MidAtlantic and Northeastern states. These projects have encompassed all phases of roadway design, including geometric design, hydrologic/hydraulic design, erosion and sediment control, traffic design, traffic control plans, and development of complete contract documents. Ed's notable roadway design experience includes Marshalls Creek Bypass Project in Monroe County, Pennsylvania, and the Walnut Lane Roundabout in Philadelphia, Pennsylvania. Also, Ed has performed numerous freeway and arterial studies for state agencies in the mid-Atlantic region. These studies have included environmental and engineering studies for upgrading existing and designing new freeway interchanges. Ed served as the project manager for the development of FreeVAL for PennDOT. FreeVAL will be implemented statewide and will allow users to efficiently evaluate the impacts for work zones and alternatives analysis.

Hurst-Rosche Engineers, Inc.
1983 – 2000

Ed Myers began his career in 1983 with the Civil Engineering firm of Hurst-Rosche Engineers, Inc. He started in the Baltimore, MD office and eventually opened a Pennsylvania operation for Hurst-Rosche in 1993. Throughout this time, he worked on progressively more detailed design plans and planning projects in Maryland and Pennsylvania. These projects included corridor studies, final designs for arterial and streetscape projects, and roundabout projects. He assembled a staff that ultimately designed approximately the first 25 roundabouts in Maryland, which was one of the first states in the country to implement this intersection treatment. As the office manager for the Pennsylvania operations, he managed and directed the staff in all areas of professional development, business development, and financial management related to the office.

EXPERT NOT RETAINED

REPRESENTATIVE PROJECTS

DDOT Innovative Bike Facility Evaluation; Washington, DC. Kittelson led a comprehensive analysis of the District of Columbia Department of Transportation's (DDOT) innovative bike facilities to evaluate their impact on safety and operations of all travel modes. As project principal, Ed oversaw a comprehensive analysis that included before-after video data analysis of conflicts,

multimodal level of service analysis, and user surveys on three facilities within the District. This analysis provides a unique opportunity to assess these innovative facilities and understand both their benefits and their drawbacks. The results were used to refine the existing designs and to provide guidance on best practices for achieving desired results for future bicycle facility designs.

PennDOT I-83 Exit 4 Alternatives Evaluation; Shrewsbury, PA. As part of an on-call contract with the Pennsylvania Department of Transportation (PennDOT), Ed served as project principal and oversaw the comparison of five alternative designs and the selection of a signalized diverging diamond interchange. The diverging diamond interchange was ultimately selected because it had fewer right-of-way impacts, maintained higher capacity, and accommodated growth without significantly expanding the footprint of the exit or requiring freeway overpass widening. Kittelson provided peer review during final design using the Federal Highway Administration's (FHWA) *Diverging Diamond Informational Guide* and NCHRP 3-113 (signal timing guidance for DDIs), both written by Kittelson.

PennDOT Roundabout Open-End Services; Statewide, PA. Kittelson held four consecutive roundabout on-call contracts with the Pennsylvania Department of Transportation's (PennDOT) Central Office to provide peer reviews and feasibility studies for roundabouts at various stages in the design process. In addition, Kittelson helped write several statewide policies and other documents in support of roundabouts, including a roundabout section in PennDOT's forthcoming Design Manual update and public awareness brochures. Kittelson developed a spreadsheet tool to compare the life-cycle benefits and costs of roundabouts to other intersection forms. To date, the firm has completed peer reviews or feasibility studies for about 20 locations statewide. Ed served as the project principal for this effort.

PennDOT US 22/Hollidaysburg Intersection Study; Hollidaysburg, PA. Kittelson helped to prepare and evaluate alternatives for US 22 and several neighborhood intersections serving the historic Hollidaysburg downtown. As project manager, Ed led the development of eight alternatives for a triangle intersection formed by SR 22, Juniata St., and Allegheny St. The intersection is complicated by three closely spaced intersections, two bridges (one of which is historic), and an active freight railroad. The selected alternative, which was the least expensive and the most effective, incorporates signal performance measures to help the intersection operate more effectively during all peak periods.

N. Second St. Two-Way Conversion—Multimodal Traffic Study; Harrisburg, PA. The purpose of this project was to promote economic development and slow vehicle traffic along N. Second St. in downtown Harrisburg. Kittelson worked with a multidisciplinary team to investigate the feasibility of converting this major one-way arterial into two-way operation. The multimodal network study includes detailed multimodal traffic operations analysis across the entire downtown area, assessing impacts along the study corridor, and addressing potential traffic rerouting and diversion concerns caused by removing auto capacity and reconfiguration of a major street. The team is currently completing final design plans for this project.

LEGAL SERVICES/EXPERT WITNESS

Ed has served as an expert witness for transportation related cases in Pennsylvania, New Jersey, South Carolina, West Virginia and Georgia. His cases have covered multiple traffic engineering and highway design areas. Representative projects include:

- Milsaps/Phenicie vs. Safety Signal Company – Cobb County, GA
- Long vs. PennDOT – Lehigh County, PA
- McCormick vs. PennDOT – Delaware County, PA
- Bender vs. PennDOT – Dauphin County, PA
- Duffy vs. PennDOT – Chester County, PA
- Tomlinson/McWhite vs. City of Lake City, SC – Lake City SC

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- Lester & Hodge vs. Asplundh, et. al – Logan County, WV
- Barlow v PennDOT – Washington County, PA
- Abdille v Bizzack Construction – Frazier's Bottom, WV

PUBLICATIONS

Schroeder, B., R. Hughes, N. Rouphail, C. Cunningham, K. Salamati, R. Long, D. Guth, R. W. Emerson, D. Kim, J. Barlow, B. L. Bentzen, L. Rodegerdts, and E. Myers. *NCHRP Report 674: Crossing Solutions at Roundabouts and Channelized Turn Lanes for Pedestrians with Vision Disabilities*. National Cooperative Highway Research Program, Transportation Research Board of the National Academy of Sciences, Washington, D.C., 2011.

Rodegerdts, L. A., J. Bansen, C. Tiesler, J. Knudsen, E. Myers, M. Johnson, M. Moule, B. Persaud, C. Lyon, S. Hallmark, H. Isebrands, R. B. Crown, B. Guichet, and A. O'Brien. *NCHRP Report 672: Roundabouts: An Informational Guide, 2nd Edition*. National Cooperative Highway Research Program, Transportation Research Board, National Academy of Sciences, Washington, D.C., November 2010.

Rodegerdts, L., M. Blogg, E. Wemple, E. Myers, M. Kyte, M. Dixon, G. List, A. Flannery, R. Troutbeck, W. Brilon, N. Wu, B. Persaud, C. Lyon, D. Harkey, and D. Carter. *NCHRP Report 572: Roundabouts in the United States.* National Cooperative Highway Research Program, Transportation Research Board, National Academy of Sciences, Washington D.C., 2007.

Myers, E. J., C. R. Bergh, and L. A. Rodegerdts. *"Comparative Analysis of Intersection Control." Compendium of Technical Papers,* 2005 ITE Annual Meeting and Exhibit, Melbourne, Victoria, Australia. August 7-10, 2005.

Myers, E. J., J. Bansen, W. Scarbrough, L. Rodegerdts, and M. Wahlstedt, *Kansas Roundabout Guide: A Supplement to FHWA's Roundabouts: An Informational Guide*, Kansas Department of Transportation, October, 2003.

Robinson, B. W., L. Rodegerdts, W. Scarbrough, W. Kittelson, R. Troutbeck, W. Brilon, L. Bondzio, K. Courage, M. Kyte, J. Mason, A. Flannery, E. Myers, J. Bunker, and G. Jacquemart, *Roundabouts: An Informational Guide, Report No. FHWA-RD-00-067*, Washington, DC: USDOT, FHWA, June 2000.

LECTURES & PRESENTATIONS

Ed regularly teaches classes on roundabout design classes in the Northeastern US. He has taught over 20 one-, two-, and three-day classes for Maryland State Highway Administration, Pennsylvania Department of Transportation, Virginia Department of Transportation, and Massachusetts Department of Transportation, among others.

AWARDS

1993 ITE Young Consultants Award for his paper on the introduction of roundabouts into Maryland.

In addition to this award, he won several other awards at Maryland State Highway Administration and with professional organizations related to his work on roundabout projects.

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