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Thomas Murphy is an Associate with Modjeski and Masters, Inc. in the Harrisburg, PA office. He is a graduate of the University of Michigan with Bachelor, Master, and Doctoral degrees in Civil Engineering. His professional experience includes the analysis and design of cable supported, arch, truss, and girder bridges with special emphasis on seismic analysis and design. He is the Principle Investigator for an NCHRP project to update the AASHTO Pedestrian Bridge Guide Specification, and led the calibration effort for the recently adopted AASHTO coastal bridge guide specification.

Recent assignments have included contributions to the analysis and design of the I-70 cable stayed bridge to be built over the Mississippi River, preliminary design for the St. Croix river crossing, rating analysis of an 1850' span suspension bridge, preliminary designs for a cable stayed bridge over the Monongahela River and independent review analyses of several complex structures.

In addition to performing the initial bridge type study for all cable-stayed alternatives for the I-70 New Mississippi River Bridge, Dr. Murphy developed project-wide site specific seismic design criteria based on expected ground motions from a New Madrid seismic event. He also helped facilitate the extensive public involvement process developed for the I-70 project. Dr. Murphy oversaw the analysis for final design of the I-70 bridge. His contributions included one of the first three-dimensional nonlinear construction stage analyses including time dependent effects ever performed on a bridge of this size, as well as the global traffic and seismic analyses.

For the Monongahela River cable stayed bridge, Dr. Murphy, serving as Project Manager, is assisting in the management, design, and complex analysis for all structural aspects of the project. His responsibilities also include monitoring of scope, schedule, budget, and sub-consultant coordination