

CLAUDIA G. PERCHINELLI, PE, SE

PROJECT PRINCIPAL

Claudia Perchinelli is the President/CEO of Structural Grace, Inc. Since 1985, Claudia has been involved in bridge design and structural engineering. Claudia's engineering responsibilities include design, project management and construction engineering of transportation related structures including long- and short-span bridges, pedestrian bridges, and temporary works as well as bridge construction services, including inspections, shop drawing review and preparation of project cost estimates and specifications.

Claudia has spent nearly her entire career overseeing the design and construction of transportation related structures, which enables her to prepare designs that are more easily constructed and to produce clear and concise construction documents.

- ***I-19 East Frontage Road, ADOT, Green Valley, Arizona.*** Project Principal in charge of the preparation of Bridge Structure Selection Reports and final structural design and construction documents for the following bridges on the I-19 East Frontage Road, Continental Road to Canoa Road Project: Esperanza Wash Bridge, Wash Bridge, NB I-19 Off Ramp Bridge and Via Rio Fuerte Wash Bridge. These structures were designed utilizing the AASHTO LRFD Bridge Design Specifications, 4th Edition and are the first bridges in Pima County to be designed using the LRFD method. Also provided the structural analysis and retrofit detailing of the existing Continental Road TI bridge abutments to facilitate the widening of Continental Road by implementing a micro pile group to stabilize the soil mass behind the abutments, and design and detailing of cast-in-place retaining walls.
- ***Kino Blvd and 22nd Street Overpass, Tucson, Arizona.*** Project Manager providing structural and architectural design and production of construction documents, including cost estimate and special provisions, for the Kino Pkwy over 22nd Street Bridge as part of the Kino Pkwy/22nd Street Traffic Interchange Project. Responsible for coordinating the design processes for the multi-discipline team with specific responsibility for the bridge architecture component of the project. Also involved in facilitating Citizen Advisory Committee public meetings and leading design work sessions to jointly develop community concepts for the Kino Pkwy Overpass structure. As part of this project, prepared the Structure Type Selection Report for the 22nd Street Bridge replacement over the UPRR yard. In addition, Claudia is leading the 'programming' responsibility in the public involvement process whereby Structural Grace is facilitating the collection of valuable information to define the appearance/meaning design criteria for the project as related to context responsive concepts and public acceptance and consensus.
- ***Cushing Street Bridge over the Santa Cruz River, Tucson, Arizona.*** Project Manager responsible for designing and preparing construction documents for the Cushing Street Bridge over the Santa Cruz River. The bridge will include two traffic lanes, two modern streetcar tracks, two bicycle lanes and pedestrian ways. Extensive multi-stakeholder consensus building, public involvement and coordination with the Rio Nuevo Design Team/Steering Committee was conducted during the conceptual design phase of this unique structure that will serve as the first major infrastructure element of the Rio Nuevo program and one of the gateways to the Cultural Plaza at the core of the Rio Nuevo redevelopment on the west bank of the Santa Cruz.
- ***Lower Screwtail Bridge, SR87, ADOT, Maricopa County, Arizona.*** Project Engineer for a 1,085-ft., multi-span pre-stressed segmental bridge designed for ADOT. Field Project Manager for construction of ADOT's \$7-mil cast-in-place segmental post-tensioned bridge. This structure received the *1998 ACI Award of Excellence* as well as the *2001 Portland Cement Associations' Biennial Bridge Award*.
- ***Golden Gate Bridge Seismic Analysis/Retrofit, San Francisco, California.*** Developed the design criteria for the seismic retrofit of the structure and Lead Design Engineer for the seismic evaluation and retrofit of the South Viaduct. The bridge totals 9,000-ft in length with a steel truss superstructure and a suspension span of 4,200-ft.

EDUCATION

Master of Science – Civil Engineering,
University of Colorado, Boulder, CO

Bachelor of Science – Civil Engineering,
University of Arizona, Tucson, AZ

PROFESSIONAL ENGINEERING REGISTRATIONS

- Arizona – Civil – 29434
- Arizona – Structural – 36837
- California – C 51093
- Hawaii – PE 8467
- Nevada – 12297
- Oklahoma – 19591
- Alaska - 10849
- New Mexico – 19103