David A. Burrows, P.E., PMP, LEED AP BD+C

- Over 22 years of experience in the design and construction industry with a diverse background including project management, structural engineering, and construction management.
- Responsible for the management of multi-disciplinary engineering projects, design of complex bridges and associated structures, design of industrial structures, quality control of designs and construction documents.
- Experienced in proposal writing, preparing scopes of work, determining management and design fees, and managing project teams including budgeting, scheduling, and ensuring client satisfaction.
- Strong technical and analytical abilities coupled with an exceptional capacity for project management, written and verbal communication skills including public presentations.

Professional Experience

Gannett Fleming Inc., Phoenix, AZ (www.GannettFleming.com) **2009 to Present**
Senior Structural Engineer

- *Washington Metropolitan Area Transit Authority (WMATA)* – Project Manager working for the Gannett Fleming/Parsons Joint Venture providing general architecture and engineering services for WMATA's $5.6 billion, 6-year capital improvement program. WMATA operates a 106-mile heavy rail system and a fleet of more than 1,500 buses in the National Capitol Region. Projects include capital renewal, replacement, and rehabilitation of rail lines, stations, rail and bus maintenance facilities, and other support facilities. Responsible for major aspects of project performance, including scopes of work, proposal preparation, project planning and execution, client interface, project schedule, project financial performance, deliverables, quality control, and subcontract and vendor management.
- *PHX Sky Train, Sky Harbor International Airport* – Structural Engineer responsible for design and quality control of complex elevated guideway structures for an automated transit system within an operating airport. Design responsibilities included the final design of a 740' long bridge superstructure over Taxiway 'R', which contains a 340' center span and is the first bridge in the world to carry a train system over an active taxiway. Responsibilities also included the preparation of structural calculations, detailed construction drawings, and construction support services.
- *Greenway Parkway Bridge at Cave Creek Wash* – Structural Engineer responsible for designing a cast-in-place box culvert to replace an existing, structurally deficient reinforced-slab bridge. The bridge carries a major city arterial over a large desert wash at a skew of more than 70 degrees.

True West Companies, Scottsdale, AZ (www.TrueWest.com) **2005 to 2008**
Manager of Design and Construction

- *Las Vegas Ranch Estates* – Manager of construction, responsible for coordinating and reviewing engineering, directing and managing construction, scheduling and budgeting the second phase of a 4,900-acre, 36-acre minimum parcel, rural subdivision with over $26 million in sales in Williamson Valley, AZ.
- *Valley View Ranch* – Manager of design and construction, responsible for coordinating and reviewing engineering, securing preliminary plat, preparing construction schedules and budgets for a 720-acre, five-acre average lot, rural subdivision in Williamson Valley, AZ.

CMX Engineering, Phoenix, AZ (www.CMXEngineering.com) **2002 to 2005**
Project Manager

- *Prasada* – Project manager assisting Fulton Homes in land planning, entitlement and preliminary engineering on a 4,200-acre master planned residential and regional mixed-use commercial project in Surprise and Maricopa County.

- Zanjero *Trails and Zanjero Pass* – Project manager responsible for land planning and preliminary engineering for entitling 2,700-acres in Maricopa County.
- *Spurlock Ranch* – Project manager responsible for land planning, entitlement and preliminary engineering for a 2,840-acre master planned community in the Town of Buckeye.

3D/I, Phoenix, AZ (www.Parsons.com/infra/education/) **2000 to 2002**
Construction Manager

- *Sky Harbor International Airport* – Construction manager responsible for assisting in relocating Aviation Management Systems Inc. (AMS) from Sky Harbor to Goodyear Airport.
- *Scottsdale Unified School District Bond Program* – Responsible for construction management from design through construction of $12 million in renovation and new construction projects.

Michael Baker Engineering, Phoenix, AZ (www.MBakercorp.com) **1997 to 2000**
Project Engineer

- *Arizona State Route 260 Kohl's Ranch Section* – Project engineer responsible for structural analysis and design of three pairs of bridges along State Route 260 in rural Arizona.
- *AZ Game and Fish Spillway Repair Project* – Project engineer responsible for analysis and design of reinforced concrete upper and lower spillway structures. Responsible for all structural plans, and estimates for the project.

Bechtel Corporation, Houston, TX (www.Bechtel.com) **1992 to 1997**
Project Engineer

- *Chevron Paraxylene Expansion Project* – Project engineer responsible for designing and production of construction drawings for industrial facilities steel structures. Provided six months of on-site construction engineering support for contractor.
- *VCM Expansion Project* – Project engineer responsible for designing two major industrial buildings.
- *Butyl Acrylate II Expansion Project* – Project engineer responsible for designing a majority of the utility raceway structures totaling approximately 1,200 feet.

Education / Professional Registrations

Arizona State University, B.S.E., Civil Engineering, *Magna Cum Laude*, 1992
Registered Professional Engineer in Arizona, California, District of Columbia, Maryland, and Virginia
Project Management Professional: Project Management Institute - No. 1393631 (2011)
USGBC - LEED Accredited Professional Building Design and Construction - No. 10695875 (2011)
Pending – California Registered Civil Engineer (Exam taken October, 2011)

Awards / Affiliations

2009 and 2010 Gannett Fleming President's Project Team Award
Baker Engineering's Vision and Values Award
Bechtel's Standard of Excellence Award
Member American Society of Civil Engineers (2009 – Present)
Member Toastmasters International Club #1511 (2014 – Present)

Publications

Burrows, David A. "Bridges for Planes, Trains, but not Automobiles." *Structure* Magazine, pp. 28-30, October 2013.
Lobo, John A., and David A. Burrows. "Wolf Girders - A Function Driven Solution: The First Precast Open Box Girders for Phoenix and Arizona." *Structure* Magazine, pp. 42-44, September 2013.
Burrows, David A., and John A. Lobo. "Mass Transit at Phoenix Airport." *Structure* Magazine, pp. 38-40, August 2013.
Burrows, David A. "The Evolution of the PHX Sky Train's Crossing of Taxiway 'Romeo.'" *ASPIRE*, Spring 2011.