

Gary C. Barras, P.E.
Senior Consulting Civil Engineer
Augspurger Komm Engineering, Inc.
& BTI Consultants
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Education

B.S. University of Arizona, (Civil Engineering), 1974
M.S. Arizona State University, M.S. Construction, 1994

Principle Areas of Research, Expertise or Consulting

Commercial, Residential, Industrial, Mining, Power Plant and Power Line Construction; Civil and Structural Engineering Design, Project Management, Construction Safety, Building Failure Investigation, Construction Methods, OSHA & Building Code Compliance; Horizontal and Vertical Directional Drilling Techniques; Value Engineering.

Certifications/Registration/Licenses

AZ Professional Civil Engineer No. 13121

Engineering Experience

Civil/Structural Engineering and Design:
International Mining Projects
Greenwood I Power Plant In Michigan
SRP's Hydro System following 100yr Floods
SRP's Generation Stations (NGS, CGS and Valley)
SRP's Support Facilities (Offices, Warehouses, Computer Centers, etc.)
Electrical Distribution Design Section Supervisor
Value Engineering LLC, Residential & Small Commercial

Major Project Management

Biltmore Electrical Underground Conversion, Job Coordinator
Power Operations Building, Project Leader
Tempe Regional Center, Project Leader
Kyrene Expansion Project, Construction Site Manager
Santan Expansion Project, Construction Site Manager
Santan Water Pre-Treatment Facility, Project Manager
Coronado Emissions Reduction Project, Senior Project Manager

Construction Project

Construction Support on Greenwood I Power Plant
Line & Electric Construction Crew Scheduling
New Heavy Construction Equipment Coordinator for Line
Construction
QA/QC Inspections at Kyrene Expansion Project and Santan
Expansion Project
Safety & Security at Kyrene Expansion Project and Santan
Expansion Project
Material Receiving at KEP

Contract Administration

\$12M Annual Electrical Line Construction Contract
Electrical Distribution Design Contracts
Vacuum Excavations (Potholing)
Mini-Directional Drilling
Trench & Conduit Installations
Line Clearing (Tree Trimming)
Santan Water Pre-Treatment Facility

Public/Civic Associations

University of Arizona Alumni Association
Board of Directors, Gilbert National Little League, 1994 -
1995.
Coach, Gilbert "WHAM" Basketball and T-Ball Leagues, 1988 -
1996.
Church Build Committees
Arizona Society Sons of the American Revolution
(Application in Process)

Professional Involvement

CURT - Construction Users Roundtable - Safety Committee
Structural Engineer's Association of Arizona
ASU Del E. Webb School of Const., Past Chairman of Safety
Task Force
M.A.G. Specifications & Details Committee, Past Committee
Member
Western Council of Construction Consumers
Rocky Mountain Electric League

Publications

American Society of Civil Engineers Construction Division,
Journal of Construction Engineering and Management

Publications (Continued)

"Minidirectional Drilling for Installation of Underground Electrical Conduit," Dec. 1995, Vol. 121 No. 4
The National Utility Contractor, "Cost Comparison Data Flows from Salt River Project," April 1994, Vol. 18. No.4
CFMA Building Profits, "Trenchless Technology," November/December, 1994
Master's Thesis, "Cost Comparison of Trenching versus Mini Directional Drilling for Installation of Electrical Conduit at Salt River Project," December 1993

Honors

Tau Beta Pi - National Honorary for Engineering
Sigma Lambda Chi, National Honorary for Construction
Nine SRP Special Recognition Awards
Three SRP Power of Ideas Suggestion Awards
ADOT Partnering Award for the Superstition T.I. Team
Silver Medal in International Mercury Awards Competition for PC&ES' 2000/2001 Business Plan
1st Place, Rocky Mountain Associated Builders & Contractors' Competition for Santan Unit 5 (Shared Honors)
2nd Place, National Associated Builders & Contractors' Competition for Santan Unit 5
"2005 Distinguished Project Award in Utilities," Western Council of Construction Consumers," for Santan (Shared Honors)
"2006 Power Engineering Project of the Year, Best Gas Fired Project" for Santan (Shared Honors)