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M. ROBERT D. BARRETT, P.E.

Mr. Barrett is Principal of B2CE, Inc., started in 1998. B2CE, Inc. offers consulting engineering services for building mechanical systems and building thermal envelopes. Specific services include owner representation, peer review, conceptual design, existing system investigation and correction, and forensic services.

He has participated in numerous investigations of existing mechanical systems on behalf of municipalities, insurance companies, attorneys, other forensic engineers and building owners. He has also provided consultation and design review for predicting thermal envelope heat and moisture transmission for several architectural firms and forensic engineers. On design projects, his experience includes establishing project scope and budget, conceptualizing HVAC, fire protection and plumbing system design, managing mechanical and electrical design production staff and coordinating mechanical and electrical design with Clients, code officials and other consultants.

Mr. Barrett has been employed as a consultant in the design, construction and operation of heating, ventilation, refrigerating, air-conditioning, fire protection, and plumbing systems since 1981. He served as a Principal and Chief Mechanical Engineer in the Denver office of M-E Engineers, Inc., from 1991 to 1998. From 1983 to 1991 Mr. Barrett was an employee of Frederick H. Kohloss and Associates, Inc. He served in various capacities from Design Engineer to Principal, and was managing partner of the Denver office before it merged with M-E Engineers, Inc. in 1991. From August of 2002 to March of 2006, Mr. Barrett was also a part-time employee of CTL|Thompson, assisting their Environmental Division in ventilation and mold remediation projects.

Current projects include construction phase services on HVAC system remediation projects; design and construction phase services for various mechanical and thermal envelope design projects in Denver and the Colorado mountains; investigation and expert witness services for builders and home owner's associations, construction contractors and insurance companies; thermal envelope design consulting for high end home, condominium and commercial projects in the Colorado mountains and around the country, and troubleshooting and design and consultation services for several metro Denver area builders and owners.

Mr. Barrett has strong technical expertise in large and complicated design of new mechanical systems. He is also experienced in enhancing the operation of existing systems. His communication skills allow him to successfully explain the physics behind the operation of building mechanical and thermal envelope systems using both technical and lay terminology. Likewise, he is able to translate his Clients needs and wishes into practical and efficient mechanical systems that can be economically built by the Contractor.

Education: 1976 Boettcher Scholar
B.S. Mechanical Engineering, 1982 - University of Colorado, Boulder

Professional Associations: ACEC-CO American Council of Engineering Companies of Colorado
ASHRAE American Society of Heating and refrigeration and Air Conditioning Engineers – *past Education Committee Chairman.*
ICBO International Conference of Building Officials – Professional affiliated member

Professional Registrations: Registered Professional Engineer in Arizona, California, Colorado Idaho, Nebraska and New Jersey (current).

Previously registered in:
Florida, Hawaii, North Carolina, Iowa, Michigan, Texas and Utah.
Previous NCEES registration. Previous Colorado Certified Consulting Engineer registration (organization was disbanded in 2009).

Publications: "Hot Springs Lodge: Innovative Plumbing, Heating Design", Plumbing Engineer: Nov/Dec 1986.

"Ventilation Requirements for New Phoenix Ballpark", co-author of paper for Forum on CFD Modeling Techniques for Large Structures and Facilities: 1996 ASME Fluid Engineering Division Summer Meeting.

Awards: 1997 ACEC Engineering Excellence Award, Honor– *Metro Wastewater District Laboratory, Denver, Colorado*

1995 ACEC Engineering Excellence Award, Honor Award – *National Wildlife Art Museum, Jackson, Wyoming*

1994 ASHRAE Regional Technology Award, 1st Place, Industrial Facilities – *Kendall Printing Plant, Greeley Colorado*

1989 ASHRAE National Energy Award, 1st Place, Category V – *Hot Springs Lodge, Glenwood Springs, Colorado*