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Dan Brown and Associates, PC

Qualifications and Experience Summary

Company Description and Key Personnel

Dan Brown and Associates is a consulting engineering firm specializing in geotechnical and foundation engineering, with emphasis on problem solving relating to foundation engineering and slope stability problems. The firm includes associates with special expertise in construction, design, testing, and research. A brief summary of key members is provided below.

Dr. Dan Brown, P.E. has a distinguished career of practice, research, and instruction in the field of deep foundations. Dr. Brown is a graduate of Georgia Tech (1977) and the University of Texas (PhD, 1985). He is particularly known for his expertise in design of deep foundations for lateral loading, load testing of deep foundations, and construction of drilled shafts. He is an instructor and co-developer of the National Highway Institute courses in drilled shaft design and construction and driven pile inspection. He is currently developing a new FHWA manual on the design and construction of drilled shafts and recently completed the FHWA guideline on the design and construction of continuous flight auger piles. He is a member and past chairman of the ASCE Deep Foundations Committee, a trustee of the Deep Foundations Institute, an honorary member of ADSC: The International Association of Foundation Drilling and of the Pile Driving Contractors Association. Dr. Brown has received numerous awards, including the ASCE Martin Kapp Foundation Engineering Award for “improvements in the design and quality of drilled shaft construction,” the ASCE Huber Prize for Research for his work with pile groups and bridge foundations, the ADSC Outstanding Service Award, and the Auburn University Gottlieb Professorship. He is an active consultant on many large projects involving deep foundations, and known for his work in pile group behavior and in construction and testing of deep foundations. Dr. Brown was a member of the Civil Engineering faculty at Auburn University from 1987 - 2009 and is a registered professional engineer in numerous states.

Dr. John Turner, P.E. is an accomplished practitioner, researcher, and educator in the field of geotechnical engineering. He has B.S. degrees in geology and civil engineering, an M.S. degree in structural engineering, and received his Ph.D. in geotechnical engineering from Cornell University. Dr. Turner served on the faculty of civil engineering at the University of Wyoming from 1986 until joining DBA full time in 2011 and has prior experience as an engineering geologist. Dr. Turner was a member of the Cornell research team on transmission line foundations, sponsored by the Electric Power Research Institute (EPRI). His other research interests include drilled shaft foundations, anchored retaining walls, and landslide stabilization. He is the author of 100+ technical papers and reports and has been a principal investigator on over 20 funded research projects. He is currently an instructor and co-developer of the National Highway Institute course on drilled shaft design and construction, and along with Dr. Dan Brown is revising the FHWA drilled shaft design manual. Dr. Turner is the author of NCHRP Synthesis 360, “Rock-Socketed Shafts for Highway Structure Foundations”. He is a past chairman of the ASCE Committee on Deep Foundations and is a recipient of the Outstanding Service Award (1992) and the President’s Award (2000) from the ADSC: International Association of Foundation Drilling. Dr. Turner has been active throughout his career as a consultant on projects involving deep foundations, earth retention, and landslide

stabilization. Recent projects include design of rock-socketed drilled shafts for bridges at Pitkins Curve in Big Sur and the Antlers Bridge on I-5 in northern California.

Dr. Steve Dapp, P.E. has extensive experience in the design, construction, and testing of deep foundations. His engineering education includes degrees from Utah State Univ. and the Univ. of South Florida (PhD, 2001), where his dissertation research was focused on the construction and behavior of post-grouted drilled shafts, and his thesis research was focused on lateral loading of piles. He has experience in deep foundation construction as a project engineer/manager for Coastal Caisson Corp. (Bauer of America). His expertise in testing of deep foundations has been developed through his work experience with Loadtest, Inc. (O-cell testing), with Applied Foundation Testing (Statnamic testing). Recent and ongoing projects with Dan Brown and Associates involving design and construction of tip grouted shafts include the John James Audubon Bridge over the MS river near Baton Rouge, Louisiana, the I-15 Beck Street Bridge in Salt Lake City, Utah, the expansion of the Huey P. Long Bridge over the MS River in New Orleans, Louisiana, and the Honolulu High-Capacity Transit Corridor Project in West Oahu, Hawaii. Many other bridge and industrial deep foundation projects with Dan Brown and Associates include evaluation of the drilled shaft capacities associated with the Le Roy Selmon Cross-Town Expressway in Tampa, Florida, an auger cast pile-raft foundation design in Sulphur Louisiana, and research into p-y curves for cemented soils. He was a co-author of the recently published FHWA Geotechnical Engineering Circular 8, *Design and Construction of Continuous Flight Auger Pile (2007)*, and a contributor to the recently published revision to the FHWA drilled shaft manual, *Drilled Shafts: Construction Procedures and LRFD Design Methods (2010)*. Dr. Dapp is a licensed professional engineer in Florida and Louisiana.

Mr. Robert Thompson, MSCE, P.E., D.GE is a project geotechnical engineer with a broad base of practical experience in geotechnical and foundation engineering and construction. His experience includes over 17 years in consulting practice with Law Engineering, TTL, Inc., and Dan Brown and Associates. He has a wide variety of experience in geotechnical investigations and foundation design for a variety of projects. Recent bridge projects include the Christopher S. Bond Bridge in Kansas City, the Biloxi Bay Bridge in Biloxi, Mississippi, the Cumberland River Pedestrian Bridge in Nashville, and the I-15 Beck St. Bridge in Salt Lake City. Other projects include the GIWW West Closure Project and the PLV-145 project in New Orleans, the Hyundai manufacturing facility in Alabama, several other industrial facilities, commercial developments and the award-winning Riverwalk Stadium in Montgomery, Alabama. He has also taught soil mechanics as an adjunct instructor at the University of Alabama at Birmingham. He served with distinction in the U.S. Army during Operation Desert Storm as a combat engineer platoon leader with the 588th Engineer Battalion. Mr. Thompson is a graduate of Auburn University and a registered professional engineer in Alabama, Florida, Georgia, Louisiana, Mississippi, and Ohio.

Mr. Tim Siegel, MSCE, P.E., D.GE has been primarily involved in the analysis and design of geotechnical structures including drilled shafts, cast-in-place piles, micropiles, and numerous types of earth retaining systems. During his 12 years with S&ME, he advanced from staff geotechnical engineer to technical principal and chief engineer while developing expertise in construction in karst, seismic design, numerical modeling, and specialty foundations and retaining systems. After leaving S&ME, he was a full time geotechnical consultant with Berkel & Company Contractors, Inc. and was involved in large deep foundation projects throughout the United States. While at

Berkel, he led the development of the ground improvement technique using Berkel's ground displacement technology. In addition to his consulting and design efforts, Tim has also served as adjunct faculty at the University of Tennessee teaching upper level and graduate level courses.

Mr. Paul Axtell, MSCE, P.E. is a project geotechnical engineer with major project experience focusing primarily on foundation engineering and slope stability for large infrastructure projects. Past projects include design and construction of seismic retrofit strategies for large earthen dams involving ground improvement as well as design, construction, and testing of large foundations for major river bridge crossings throughout the United States. His recent work with DBA includes deep foundation design, testing, and construction of large diameter pipe piles and drilled shafts for the Christopher Bond Bridge in Kansas City, MO, which is a cable-stayed crossing of the Missouri River; the Lafayette Bridge in St. Paul, MN, which is a steel box crossing of the Mississippi River; the Ronald Reagan Bridge in St. Louis, MO, which is a cable-stayed crossing of the Mississippi River; the Hastings Bridge in Hastings, MN, which is a free-standing tied-arch crossing of the Mississippi River; and the Hurricane Deck Bridge near Camdenton, MO, which is a major crossing of the Lake of the Ozarks. Commensurate with his broad geotechnical experience and background, Mr. Axtell has published nearly two dozen peer reviewed articles on a vast array of geotechnical topics ranging from soil dynamics to full-scale foundation load testing. He currently serves on the Deep Foundations Institute (DFI) Drilled Shaft Committee and is active within the organization. Mr. Axtell is a graduate of the University of Missouri and the University of Texas, and is a registered professional engineer in Kansas, Missouri, and Minnesota.

Dr. Eric Loehr, P.E. specializes in evaluating the stability and performance of earth slopes and earth retention systems, large-scale laboratory modeling and full-scale field evaluation of geotechnical engineering problems, performance of geotechnical composite systems, and computer applications in geotechnical engineering. Dr. Loehr leads DBA efforts in the analysis and design of slope stability projects, including the stabilization of the Alabama river at the Alabama Electric Cooperative Powerplant in Loman, AL and for a CSX railroad line in Missouri. His work includes research for agencies such as the National Science Foundation, the Missouri Department of Transportation, and the Federal Highway Administration as well as for a number of private contractors and companies. Recent projects include evaluation of reticulated micropile systems for slope stabilization, development of techniques for using recycled plastic reinforcement for stabilization of surficial slope failures, behavior of fiber-reinforced soils, application of asset management principles to geotechnical engineering systems, reliability-based design of earth slopes and retaining structures, and application of Load and Resistance Factor Design (LRFD) to earth slopes. He is an active member of ASCE/Geo-Institute, ADSC: the International Association of Foundation Drilling, the Deep Foundations Institute, the International Society for Micropiles, and the Transportation Research Board. He is a recipient of an NSF CAREER Award and is a Distinguished Faculty Fellow in the MU College of Engineering. Dr. Loehr received his doctorate at the University of Texas (1998).

Mr. Jon Gould, MSCE, P.E. is a project geotechnical engineer with over 38 years of experience in geotechnical engineering and construction for a wide range of projects throughout the U.S. with most of the major geotechnical engineering firms and national and regional geotechnical specialty and deep foundation contractors. Jon served over 18 years with a national engineering and

construction company as senior geotechnical engineer responsible for the geotechnical design criteria used to design earthworks and foundations on all projects, and 13 years with a geotechnical engineering and testing company as chief geotechnical engineer responsible for major industrial plants and earth and concrete dams. Prior experience includes earthwork and highway construction as an officer with the U.S. Army Corps of Engineers and as a construction engineer at Cape Canaveral and the Kennedy Space Center.

Mr. Aaron Hudson, EIT is a staff engineer who grew up in a geotechnical engineering family in Lake Charles, Louisiana, working his way through college at McNeese State University as an engineering technician. His graduate work toward his MSCE at Auburn University was focused on the performance of drilled shaft foundations in weak rock. He spent nearly a year at TTL, Inc. in Tuscaloosa, Alabama prior to joining DBA in 2009.

Mr. David Graham, EIT is a staff engineer who recently completed his M.S. in Civil Engineering at Auburn University, where he also completed his B.S.C.E. His research focused on a new method for mitigating liquefaction hazards. David has experience in geotechnical construction and consulting working as a co-op with Saiia Construction, LLC in Birmingham, Alabama and as an engineering associate for Bunnell-Lammons Engineering, Inc. (BLE) in Greenville, South Carolina.

Mr. Nathan Glinski, EIT is a staff engineer who recently completed his B.S.C.E. in Civil Engineering at Georgia Tech, where he also is conducting graduate studies toward and anticipated M.C.E. in 2012. Nathan has worked with DBA since 2009 and has experience in load testing and construction of various types of drilled foundations including drilled displacement piles, micropiles, and drilled shafts.

Company Services

Our services for deep foundations include design and construction issues for:

- Drilled Shafts (Conventional and Post-grouted)
- Auger Cast-in-Situ Piles (Conventional CFA and Drilled Displacement Piles)
- Micropiles
- Driven Piles

While specializing in deep foundation systems and slope stability problems, we also provide our services for a wide range of geotechnical applications and problems. Our list of services includes:

- Foundation analysis and design
- Dynamic foundation analysis and design
- Slope stability analysis and design
- Earth retaining structure analysis and design
- Consulting for general geotechnical practitioners
- Peer review for general geotechnical practitioners
- Owner review of geotechnical services
- Value engineering of foundation systems
- Design-Build project team support
- Load testing program design, execution, interpretation, and application
- Integrity testing evaluation
- Construction problem resolution
- Foundation failure investigations and remediation design
- Expert witness
- Short Courses, Seminars, Technical Presentations

Selected Recent Projects

- ***Hastings Mississippi River Bridge, Hastings, MN.*** Foundation design and load testing for a new arch bridge founded on large diameter driven steel pipe piles and drilled shafts, including a pile-supported approach embankment on deep compressible soils.
- ***Hurricane Deck Bridge, Lake of the Ozarks, MO.*** Foundation design and evaluation of the re-use of existing caissons for a new long-span bridge.
- ***New Mississippi River Bridge, St. Louis, MO.*** Foundation design via alternate technical concept (ATC) and load testing for a new cable-stayed bridge founded on large diameter drilled shafts socketed into Limestone bedrock.
- ***Gilmerton Bridge, Chesapeake, VA.*** Prepared a foundation design as a Value-Engineered alternative, including a full scale load testing program, for 12ft diameter drilled shafts for a new lift bridge over the Elizabeth River.
- ***Foothills Parkway Bridge, TN.*** Foundation designer for a micropile-supported bridge in remote mountainous terrain, constructed to minimize environmental impact for National Park Service.

- ***Light Rail Elevated Guideway Structure, Honolulu, HI.*** Foundation consultant for 6 mile long elevated structure in a congested urban environment, supported on drilled shaft foundations.
- ***Populus Transmission Line, Utah.*** Consultant to Black & Veatch / Kiewit Joint Venture on the design and construction of transmission line structures for a high voltage line between Salt Lake City and southern Idaho.
- ***OMHS Replacement Hospital Facility, Owensboro, Kentucky.*** Designer for a ground improvement system using drilled displacement columns for liquefaction mitigation and foundation soil improvement.
- ***Lafayette Bridge, St. Paul, MN.*** Foundation designer for a new Mississippi River Bridge crossing, founded on driven steel pipe piles.
- ***Dulles Metrorail Project, VA.*** Foundation consultant for elevated guideway portion of the extension of the metro transit system near Tyson's Station, VA.
- ***I-15 Beck St. Bridge, Salt Lake City, UT.*** Lead geotechnical designer for bridge crossing, currently under construction with large diameter drilled shaft foundations and driven piles in liquefaction-prone area.
- ***Christopher S. Bond Bridge, Kansas City, MO.*** Lead geotechnical designer for cable-stayed Missouri River crossing, foundation construction recently completed with drilled shaft foundations socketed into rock.
- ***LPV-145 Project, Chalmette, Louisiana.*** Consultant to Kiewit construction team and the U.S. Army Corps of Engineers on the construction of flood control structures in Louisiana after Hurricane Katrina.
- ***GIWW West Closure Project, Belle Chasse, Louisiana.*** Consultant to Kiewit construction team and the U.S. Army Corps of Engineers on the construction of the flood gates at the Harvey Canal as part of the flood control structures in Louisiana after Hurricane Katrina.
- ***John James Audubon Bridge, LA;*** Lead geotechnical designer for cable-stayed Mississippi River crossing, foundation construction recently completed with 200ft deep drilled shaft foundations in sand, improved by base grouting at the shaft toe. Driven prestressed and steel pipe piles are used on portions of the approach structures.
- ***I-35W Bridge Replacement, Minneapolis;*** Consultant to MNDOT on the replacement of the collapsed structure over the Mississippi River, construction recently completed with drilled shafts socketed into rock.
- ***Biloxi Bay Bridge, Biloxi, MS;*** Foundation consultant on replacement of U.S. 90 bridge destroyed by hurricane Katrina, recently completed with driven prestressed pile foundations.
- ***I-10 Escambia Bay Bridge Replacement, Pensacola, FL;*** consultant on replacement of I-10 bridge destroyed by hurricane Ivan, recently completed with driven pile foundations.
- ***Cumberland River Pedestrian Bridge, Nashville, TN;*** designed foundation on micropiles for a suspension bridge.
- ***Slope Stabilization on the Missouri River for UPRR, Gasconade, Missouri.*** Design of a pile stabilization for slope stability along a rail line near the Missouri River.
- ***Wastewater Treatment Facility, Lake Charles, LA;*** Geotechnical design of deep foundations for tanks and treatment facilities.

- **Ravel Bridge, Charleston, SC**; cable-stayed bridge over Cooper River, consultant on preliminary design and design-phase load testing program. Testing included full scale lateral loading of drilled shaft foundations in soils subjected to blast-induced liquefaction.
- **St. Croix River Bridge, MN** (preliminary design); planned extradosed bridge in environmentally sensitive area (not yet completed).
- **Tampa Crosstown Elevated Freeway Project, Tampa, FL**; evaluated and designed remediation plan for drilled shaft foundations in variable limestone with solution features.
- **San Francisco-Oakland Bay Bridge**; Consultant on preliminary design of deep foundations for the new self-anchored suspension bridge and viaduct over the east bay.
- **New River Bridge, Ft. Lauderdale, FL**; Consultant to Florida DOT
- **L'Auberge Casino Resort, Lake Charles, LA**; Geotechnical designer for foundations of high rise hotel, dock, and associated structures
- **Bollinger Shipyard, Lake Charles, LA**; Geotechnical designer for dock and associated structures
- **Port of Lake Charles, LA**; Geotechnical designer of sheet pile and pile supported dock structures and associated structures
- **Sugar Cane Bay Casino Resort, Lake Charles, LA**; Geotechnical designer for foundations of high rise hotel, dock, and associated structures
- **Roosevelt Bridge, Stuart, FL**; Consultant to Univ. of Florida on pile group load tests
- **Alabama River Parkway Bridge, Montgomery, AL**; Geotechnical design of foundations for new bridge
- **Black Warrior River Parkway Bridge, Tuscaloosa, AL**; Geotechnical design of foundations for new bridge
- **NASA Advanced Solid Rocket Motor fabrication facility, Iuka, Mississippi**; Consultant to Rust International Corp. on the design of foundations for blast effects
- **NASA Rocket Motor test facility, Bay St. Louis, Mississippi**; Consultant to Rust International Corp. on the design of foundations for lateral vibrations
- **Ala. Judicial Center (State Supreme Court Building), Montgomery, Ala**; Consultant on the design and construction of deep foundations
- **Paper Mill, Mansfield, LA**; Lead geotechnical designer for structures for a new paper mill for International Paper Corp

Load Testing Programs: Consultant on load testing programs for:

The US Hwy 23 Bridge over the Ohio River
 SC Hwy 41 Bridge over the Black River
 US Hwy 15/401 Bridge over Great Pee Dee River, SC
 CSX railroad over Lorton Rd, Virginia
 SR2 Choctawhatchee River Bridge, FL
 Broadway Bridge, Daytona Beach, FL
 I-95 interchange, Virginia
 Riverfront retaining walls, Puerto Rico for the U.S. Army Corps of Engineers
 Cape Fear Bridge near Wilmington, NC.
 Pascagoula River Bridge, Pascagoula, Miss.

Recent Publications of DBA Members

Drilled Shafts: Construction Procedures and LRFD Design Methods (FHWA-NHI-10-016, Geotechnical Engineering Circular No. 10, NHI Course NO. 132014). Brown, D.A., Turner, J.P., and Castelli, R. J. (2010).

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Brown, D. and Thompson, R. (2011). “NCHRP Project 20-5, Synthesis Topic 41-10, Developing Production Pile Driving Criteria from Test Pile Data,” Report to the National Cooperative Highway Research Program, 145p.

Brown, D., Axtell, P., and Kelley, J. 2011. “The Alternate Technical Concept Process for Foundations at the New Mississippi River Bridge, St. Louis,” accepted for publication and presentation, Proceedings of the Deep Foundation Inst. 36th Annual Meeting, Boston, 8p.

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Brown, D.A. and Thompson, W.R. (2009). "Drilled Shaft Performance in Cemented Calcareous Formations in the Southeast United States", ", Int'l Foundation Congress, Geotechnical Spec Publ No. 185, ASCE, pp. 119-126.

Turner, J.P. and Ramey, S.B. "Base Resistance of Drilled Shafts in Fractured Rock", Geotechnical Spec Publ No. 198: The Art of Foundation Engineering Practice, ASCE, Reston, VA, pp. 687-701.

Turner, J.P., Buell, R., and Zheng, X. "Load-Settlement Model of Rock Sockets from O-Cell Testing", 60th Highway Geology Symposium, Buffalo, N.Y., Sep 29 – Oct 2, 2009.

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Loehr, E.J. and Brown, D.A. (2008). " A Method for Predicting Mobilization Resistance for Micropiles Used in Slope Stabilization Applications", A Report Prepared for the Joint ADSC/DFI Micropile Committee.

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