

D M Berg Consultants, P.C.

Fall 2000



Photo by Robert Mikrut Photography

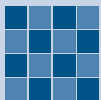
*The Bayside Hotel
Boston, Massachusetts
Architect: Arrowstreet, Inc.*

D M BERG CONSULTANTS, P.C. is a structural engineering firm providing services for both public and private-sector clientele. Our business focus is:

- Building designs for new construction
- Analyses, forensics, and report writing
- Rehabilitation and restoration for existing buildings and parking structures
- Envelope and weatherproofing designs for new and existing building roofing and cladding systems

Project Types

Assembly	Industrial
Civic	Institutional
Commercial	Parking Garages
Educational	Residential
Healthcare	Retail
Hospitality	Specialty



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A New Identity, A New Era D M Berg Consultants, P.C.

In the last year, the directors of David M. Berg Associates, Inc. decided that four of our very valued employees should become partners in the business ventures, based on the projected growth and

expansion of the company. The four individuals are Ali Borojerdi, P.E., Thomas Heger, P.E., Peter Shedlock, and Scott Webber. So, on 12 January 2000, a new corporate entity (D M Berg Consultants, P.C.) was created to expand our business partnerships and ventures.

One significant venture the new firm has been engaging is that of "Fast-Track Structural Design and Detailing" (see below). This particular "Fast-Track" approach is logical, under certain circumstances, given our abilities and a

construction market that has moved away from the very traditional Design-Bid-Build approach. Of course, the new firm welcomes traditional design projects, given that they are a staple in the market. However, the formation of the new corporation allows us to better serve the needs of our clients and their varied projects, both locally and nationally. We see DMBA taking on the more traditional projects and the new firm tackling the projects that have fast and/or complex schedules and structural engineering service requirements.

You will not see a change in the core personnel or services regardless of the corporate entity. The original firm and the new firm maintain the same sense of judgement, degree of service, and dedication to our clients that David Berg has instilled in the firm over the past 37 years. ■

Is Fast-Track Design/Detailing Viable?

by **Stephen K. Crockett, P.E., President**

I have noticed over the course of the past two years how construction schedules are delayed due primarily to the delivery schedules for structural steel. The ability to close this schedule gap on fast-track projects in particular is available by providing the structural steel detailing (shop fabrication details and erection plans, mill orders, and bolt lists) in tandem with the fast-track structural building design.

Overall, I see this as an advantage to the owner/developer in terms of the following:

- Shortened and simplified review/approval process of the structural steel submittals;
- Earlier occupancy due to the shortened schedule, generating income sooner;
- Certain project costs (like General Conditions) can be reduced by the shortened schedule; and
- Certain financing costs can be reduced by the conversion from construction loans to permanent financing sooner due to the shortened schedule.

Employing the fast-track structural design/detailing approach, I see the owner/developer directly retaining the structural engineer/detailer as opposed to the more common arrangement where the architect retains the structural engineer. Having the owner/developer contract directly for the structural services allows the structural consultant to remain focused and proactive on the owner/developer's schedule and not be a reactive participant driven by the overall drawing production schedule. In addition, once the detailing package is complete, the owner/developer (or their construction/project manager) would bid the detailing package to fabricators, mills, and erectors. Once signed, these contracts could be assigned to the selected General Contractor or retained by the owner/developer.

In closing, I believe this structural engineering/detailing delivery system is valid and workable provided that the project is indeed a true "fast-track" and the structural services can be provided directly to the owner/developer. ■

TECHIE
TALK

**LANDMARK SQUARE
BOSTON, MASSACHUSETTS**

**MATTHEW H. JOHNSON
STAFF ENGINEER**

by Matthew H. Johnson, Staff Engineer



Photo by Bruce T. Martin Photography

Landmark Square provided much needed housing for the Fenway area of Boston. The project consists of seven stories of composite steel construction over a below-grade parking garage. Steel moment frames provided lateral resistance to wind and seismic forces.

A tightly spaced column grid required careful coordination with the architectural floor plan, but proved beneficial. The result provided 8'-4" ceiling heights in a 10'-0" floor-to-floor space.

Mechanical and sprinkler pipes were generally run through the slightly lower hallway ceilings. This area coincided with the deeper beams used in the moment resisting frames. The solution was to develop a design spreadsheet that allowed for a quick analyses and reinforcing designs for all (200+) beam penetrations.

Steel composite framing and lightweight concrete slabs provided the lightest and most efficient system for the low capacity (40 tons gross) pressure injected footings. Landmark Square was substantially completed in June 2000. ■

Mr. Johnson joined DMBA in April of 1997. As a staff engineer, he is responsible for complete design and construction administration. Mr. Johnson has also been involved in existing building renovations based on the new Chapter 34 requirements of the Massachusetts State Building Code, Sixth Edition.



A graduate of Ohio University, Mr. Johnson received his Bachelor of Science Degree in Civil Engineering in 1994 and completed his Master of Science Degree in Civil Engineering in 1996.

Mr. Johnson developed DMBA's first website and is currently overseeing the development of the new combined web presence for DMBA and DMBC, P.C.

Some of Mr. Johnson's recently completed projects include: the Computer Merchant's Corporate Headquarters in Norwell, MA; Sutton Elementary School in Sutton, MA; Landmark Square in Boston, MA; 15-25 Hemenway Street in Boston, MA; and Lancaster Town Library in Lancaster, MA.

In his spare time, Mr. Johnson enjoys reading, mountain biking, skiing, surfing, and golfing. ■

*Landmark Square
Boston, Massachusetts*

Architect:
The Architectural Team

General Contractor:
*Suffolk Construction
Company, Inc.*

Cost: \$21,000,000
Units: 132
Parking Under: 89 spaces
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Goodbye and thanks to our summer intern, **Monica Zuray**, who began her freshman year at Worcester Polytechnic Institute this Fall.
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Welcome to **Frederic Carrie**, MSCE, 2000, WPI, who joined the engineering staff this Summer.
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William Barry, P.E., is volunteering for the WGBH Outreach Program for schools in conjunction with the five part series, "Building Big", airing in October.
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Congratulations to **Tom Queally**, CAD Drafter, and his wife, **Janet**, on the birth of their son, Kevin Thomas.



Photo by Peter Vanderwarker Photographs

*Boston University's School of Public Health
The Talbot Building
Boston, Massachusetts
Architect: Stahl Associates Architects*



Photo by Benson Photography

*Western Connecticut State University
Westside Campus Dormitory
Danbury, Connecticut
Architect: Herbert S. Newman & Partners, P.C.*

DMBC, P.C. strives to create a working atmosphere where, through mutual cooperation and respect amongst staff and clients, the process of designing vertical structures can be carried out with efficiency for all concerned including owners, developers, other clients, and end users.