ENTRY FORM



DVASE 2017 Excellence in Structural Engineering Awards Program

PROJECT CATEGORY (check one):

Buildings under \$2M		Buildings Over \$100M	
Buildings \$2M-\$10M		Other Structures Under \$5M	
Buildings \$10M - \$30M		Other Structures Over \$5M	
Buildings \$30M - \$100M	Х	Single Family Home	

Approximate construction cost of facility submitted:	\$85M
Name of Project:	The Vanderbilt at Westbury
Location of Project:	Westbury, NY
Date construction was completed (M/Y):	2/2017
Structural Design Firm:	Mulhern & Kulp Structural Engineering
Affiliation:	All entries must be submitted by DVASE member firms or members.
Architect:	GRCH Architects
General Contractor:	Beechwood Organization

Company Logo (insert .jpg in box below)



Important Notes:

- Please .pdf your completed entry form and email to <u>bkoroncai@barrhorstman.com</u>.
- Please also email separately 2-3 of the best .jpg images of your project, for the slide presentation at the May dinner and for the DVASE website. Include a brief (approx. 4 sentences) summary of the project for the DVASE Awards Presentation with this separate email.

• Provide a concise project description in the following box (one page maximum). Include the significant aspects of the project and their relationship to the judging criteria.

The Vanderbilt at Westbury is Long Island's first combination luxury apartments and extended stay hotel development. The six-story building contains 195 luxury units, and is located on redeveloped land at the former site of the Roosevelt Raceway. The building also features luxury amenities such as: a gourmet restaurant and bar, state-ofthe-art fitness center and yoga rooms, library, lounge, party room, business center, and a pool located in a formal courtyard garden.

The building contains two structurally distinct sections – the main six-story on basement residential building, and an attached two-level reinforced concrete parking garage. The residential building has a full size basement containing utility and service rooms bounded by reinforced concrete walls, and a composite steel frame system creating the structure of the basement and first floor. The second through sixth floors consist of light gage bearing walls with composite bar joist floors.

A central two-story atrium space includes an open ring walkway on the second floor, offering views down to the lobby and restaurant below. Two large W27 transfer girders over the atrium support four floors of bearing walls above, to create the large open space below. Additionally, W27 transfer girders were needed in the floor below to support the ring walkway support posts, which could not continue through the basement rooms below.

The top floor blends into the highly articulated roof framing, creating numerous full and partial mansard conditions and dormers requiring a variety of framing solutions. Balconies, overhangs, and bearing wall jogs pepper the facades of the building, resulting in numerous offset bearing conditions that required additional framing and special perimeter detailing to ensure load transfer to the foundation.

The west wing of the residential building overhangs part of the parking garage, requiring long span transfer girders as large as W40x297, and moment frames with columns as large as W14x500 to support the five floors of apartments above. Due to non-stacking parking layouts, the level below also required 30" deep concrete beams to accommodate eccentric column locations.

The lateral system of the building consists of light gage flat strap braced wall panels above the second floor, supported on steel moment frames below the transfer levels. The garage structure has intermediate reinforced moment frames for its lateral system. In many locations W27 or W30 steel beams were required to support the braced wall panels above.

The project is surrounded on all sides by existing development, including offices, new condominiums, a local freeway, and an active municipal well field, limiting site access and staging areas. This further complicated the already fast-tracked construction process, whose early foundation package and advance bid sets required ongoing coordination through the construction phase. The project is currently undergoing final fitouts, and will be opening late 2017.

• The following 5 pages (maximum) can be used to portray your project to the awards committee through photos, renderings, sketches, plans, etc...



Rendering of the front elevation.



Rendering of the courtyard, as seen from the atrium.



Concrete construction at the garage area below the residential building.



Steel erection in the hotel portion of the building, and concrete work in the garage area.



Progress on the bearing walls above the transfer level.





The many undulations of the perimeter wall and steel support.



The residential building where it meets the garage structure.



The ring walkway in the atrium as seen from the restaurant space.



View up through the atrium at the transfer girders above.

By signing, signatory agrees to the following and represents that he or she is authorized to sign for the structural design firm of record.

All entries become the property of DVASE and will not be returned. By entering, the entrant grants a royalty-free license to DVASE to use any copyrighted material submitted.

If selected as an award winner, you may be offered the opportunity to present your project at a DVASE breakfast seminar. Would you be willing to present to your colleagues? **X YES O**

Submitted by:						
Print name:		Signature;	\cap	Date:		
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