

ENTRY FORM



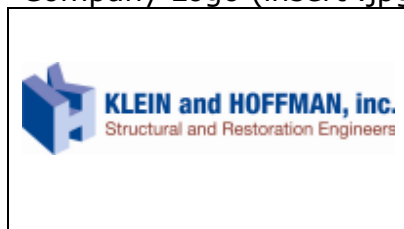
DVASE 2010 Excellence in Structural Engineering Awards Program

PROJECT CATEGORY (check one):

| | | | |
|-----------------------------|-------------------------------------|------------------------------|--------------------------|
| New Building under \$30M | <input checked="" type="checkbox"/> | Other Structures Under \$10M | <input type="checkbox"/> |
| New Building over \$100M | <input type="checkbox"/> | Other Structures Over \$10M | <input type="checkbox"/> |
| New Building \$30M - \$100M | <input type="checkbox"/> | Free Style | <input type="checkbox"/> |

| | |
|--|---|
| Approximate construction cost of facility submitted: | \$5.3 Million |
| Entry Fee: | FREE |
| Name of Project: | Manheim Township Public Library |
| Location of Project: | Manheim Township, Lancaster County, PA |
| Date construction was completed (M/Y): | Structural Design/Construction Documents: 3/09 Estimated Construction Completion: 6/10 |
| Structural Design Firm: | Klein and Hoffman, Inc. |
| Affiliation: | All entries must be submitted by DVASE member firms or members. |
| Architect: | Kimmel Bogrette Architecture + Site, Inc. |
| General Contractor: | High Construction Company |

Company Logo (insert .jpg in box below)



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.

As one of the largest municipalities in Lancaster County without a substantial public library to serve the diverse and changing needs of its 35,000 residents, Manheim Township has embarked on a long-term dream to provide the Township and surrounding communities with a new state-of-the-art facility. The new library will serve as a physical and virtual gathering place in a once rural and now suburban community that has no other public center. In fulfillment of its mission, the library will provide services and programs for educational, recreational and cultural enrichment that promote and support personal growth, economic self-sufficiency, and a life-long love of learning.

The new library complex takes its visual cues from the architecture of the surrounding community, and consists of three attached buildings that house children's and adult libraries, reading rooms, stack rooms, a café and used book store, self-checkout stations, outdoor lockers for after-hours material pick-ups, administration offices, mechanical mezzanines, teen center and a flexible-use 200 person community center. The grounds will be landscaped with native foliage and include reading areas, an outdoor terrace and gardens. The township commissioners with the advice of library consultants set aside \$5,000,000 to be supplemented by \$2,700,000 from grants and publically raised funds for the construction cost of the project.

Serving as the structural subconsultant to Kimmel Bogrette Architecture + Site, Klein and Hoffman provided structural engineering design and construction services for this challenging project. The complex is a 30,000 square foot building located on a township-owned site with a rocky hillside and a steep slope overlooking the community campus.

Klein and Hoffman endeavored to achieve the township's dream within the available budget by using economical and sustainable construction materials that offer proven reliability and an aesthetic appearance compatible with that of the local community. These goals were achieved successfully and on schedule with a construction cost of only \$5,300,000 (\$175 per square foot).

The Library was constructed using sustainable design strategies, such as the use of environmentally-friendly building materials and energy-efficient systems. The Township plans to seek LEED™ Silver certification.

The structural design included various structural framing systems and construction materials. The first floor framing includes reinforced concrete basement walls, steel columns and beams, open-web steel trusses and concrete slab-on-metal deck. The roof framing consists of architecturally exposed Glu-Laminated timber beams with architectural hardware, structural insulated roof panels (SIP), light gage metal framing and trusses at the sloped roofs, and TJI joists and wood trusses at the flat roof area.

The Library is scheduled to welcome its first visitors in the spring of 2010.

Please attach your photos as previously described in the call for entries document and insert captions for the photos in the following boxes.

Photo 1: Rendering of library complex as proposed by Kimmel Bogrette Architecture + Site, Inc.



Photo 2: Exterior view during construction

Photo 3: Interior view of architecturally exposed glu-laminated timber and SIP roof panels

Photo 4: General view during construction phase of various structural framing systems and building components

Photo 5: Exterior view showing "silo" style children's library

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. DVASE / NCSEA is hereby granted the right to use or publish entries and accompanying materials in **STRUCTURE** magazine or other publications. In addition, a royalty-free license is granted to DVASE / NCSEA to use any copyrighted material submitted.*

Submitted by:

| | | |
|--------------------|-------------------|--------------|
| Print name: | Signature: | Date: |
|--------------------|-------------------|--------------|

A handwritten signature in black ink, appearing to read "David L. Lavoie".

| | | |
|--------------------------|--|----------------------------------|
| Sam M. Tibi, P.E. | | 4/9/10 |
| Submitting Firm: | Klein and Hoffman, Inc. | |
| Mailing address: | 1818 Market Street, Suite 3500 Philadelphia, PA 19103 | |
| Telephone: | Fax: | Email: |
| 215-563-7787 | 215-564-5667 | stibi@kleinandhoffman.com |