ENTRY FORM

DVASE
2017 Excellence in Structural Engineering Awards Program

PROJECT CATEGORY (check one):

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

Approximate construction cost of facility submitted:	$8.5M
Name of Project:	Loomis Chaffee School Cutler Hall
Location of Project:	Windsor, CT
Date construction was completed (M/Y):	8/2016
Structural Design Firm:	CVM
Affiliation:	**All entries must be submitted by DVASE member firms or members.**
Architect:	AOS Architects
General Contractor:	Newfield Construction

Company Logo (insert .jpg in box below)

Important Notes:

- Please .pdf your completed entry form and email to bkoroncai@barrhorstman.com.
- 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.

Located on a rural, 300-acre campus in Windsor, CT, The Loomis Chaffee School is an independent boarding and day school serving nearly 700 total students, grades nine through twelve. Loomis was chartered in 1874 and is a member of the Ten Schools Admissions Organization. As part of a developing master plan and in response to an increase in enrollment, the school has undertaken several concurrent projects, including the design and construction of Cutler Hall.

A three-story, above-grade residence hall with a basement, Cutler Hall is a 50-bed residence with four faculty apartments. In addition to the living quarters, which include both single and double occupancy rooms, a large Common Room with a second floor mezzanine creates a much-needed gathering space for all residents.

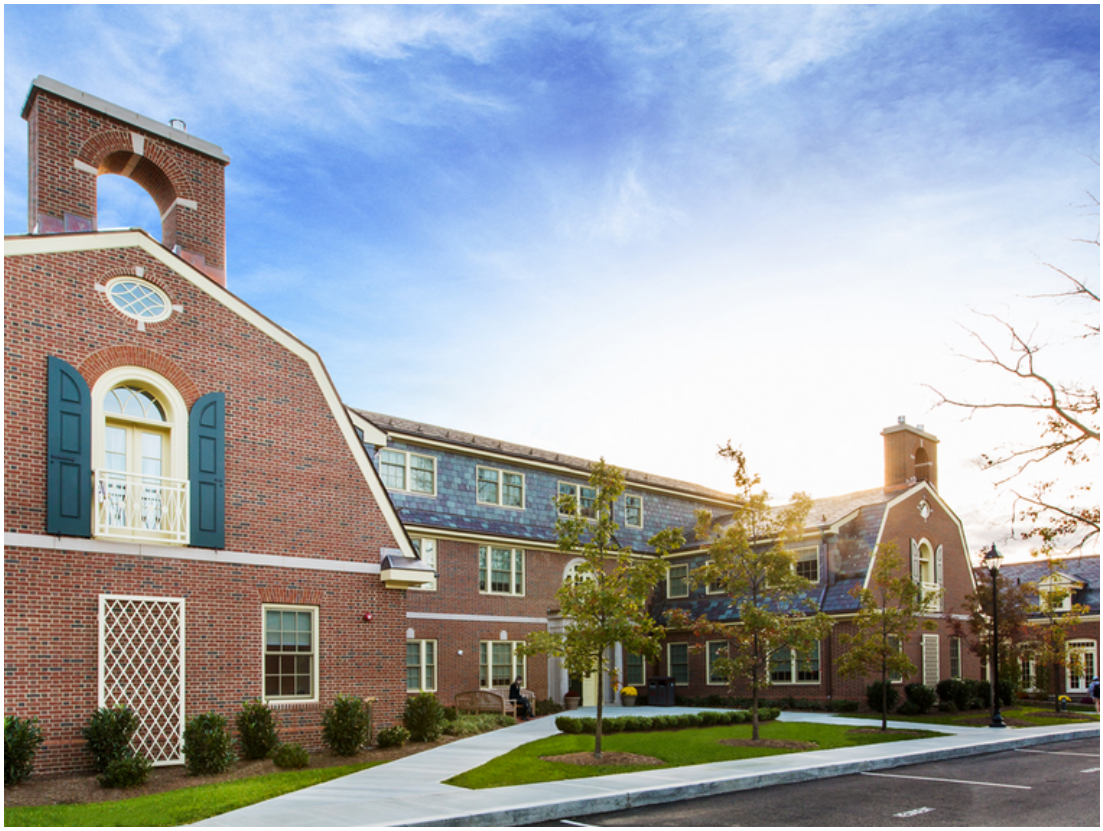
The structure consists of precast hollow-core plank with a non-composite topping slab supported by reinforced concrete masonry shear walls. Several large, full height openings at the interior reinforced concrete masonry walls required the precast hollow-core plank to be supported on steel HSS beams that were set within the depth of the hollow-core plank to create a seamless transition between spaces. Cantilevered steel framing for both the floor and roof, form bay windows at each end of the building on the second floor, extending out slightly from the building footprint.

Galvanized metal roof decking is supported by gambrel shaped cold formed metal trusses spanning 37 feet to the exterior reinforced concrete masonry walls. Fall protection anchors were incorporated at the roof level and tied back to the cold formed metal trusses for support. Cold formed metal box beam framing between the roof trusses and exterior concrete masonry walls support brick cladding for dual chimneys which arch at the roof level.

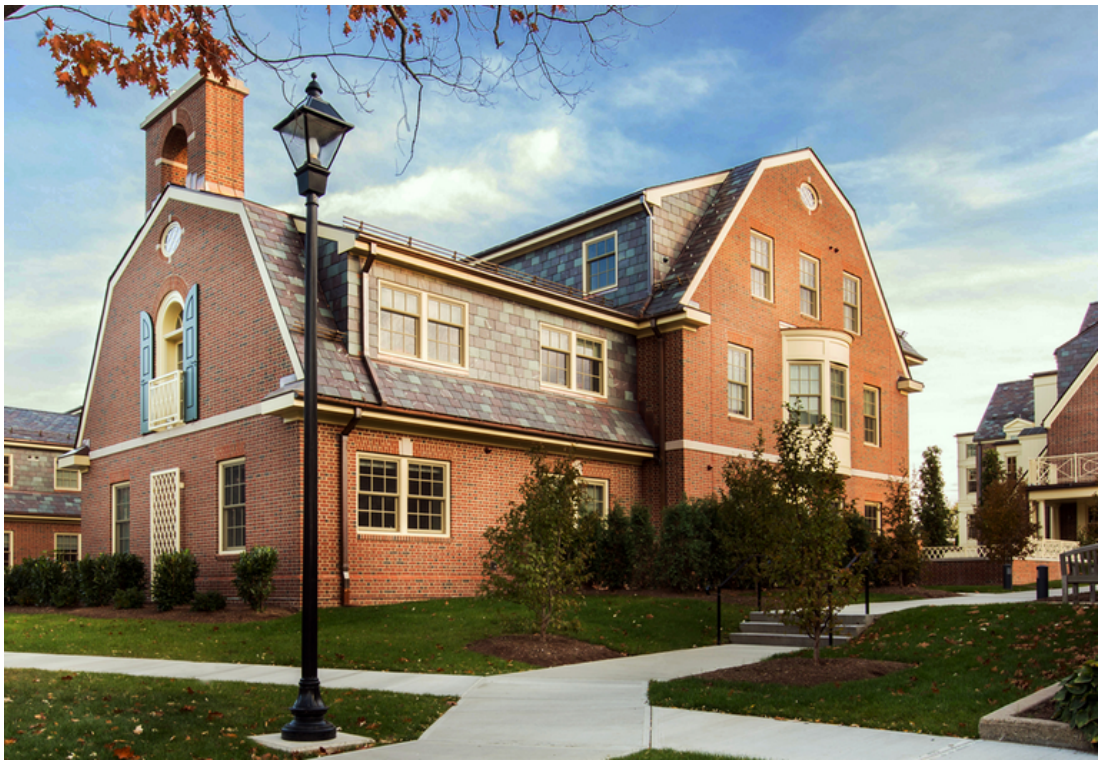
The building employs a 24 inch thick reinforced concrete mat slab for its foundation system in areas of the basement due to a high water table and existing site soil conditions. Shallow reinforced concrete wall footings were used at the two wings of the building where there is no basement along with a 6 inch thick slab-on-grade for the first floor space. The design of the basement also required careful coordination in order to connect to the campus's existing underground precast concrete tunnel system and deliver utilities into the buildings.

The completion of Cutler Hall marks the continued development of the Loomis Campus, helping to define the existing campus entry and completing a new residential quadrangle. The design team was able to deliver a very successful project by working closely with the Owner and Owner's Representative during design and with the Contractor throughout the construction process.

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



South Elevation



Northwest Corner with Dual Arched Chimney

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? ☐ ***YES*** ☒ ***NO***

Submitted by:

Print name:	**Signature:**	**Date:**
Dan Donnachie		April 10, 2017

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