

**PSPE PHILADELPHIA CHAPTER
OUTSTANDING ENGINEERING ACHIEVEMENT AWARD NOMINATION FORM – 2024**

Project Information:

Name of Project:

Calder Garden and Museum

Location of Project:

2100 Benjamin Franklin Parkway, Philadelphia, PA 19103

Description of Project, Include specific details (use two additional pages if necessary):

See attached project description

Construction Cost: \$30 million+/- Completion Date: Fall 2025 Project or component must be complete in 2024

Primary Engineering Disciplines Represented by the Project (check those that apply):

Mechanical _____; Electrical _____; Civil X; Structural _____; Chemical _____

Organizations/Firms That Contributed to the Project and are Responsible for the Achievement (provide additional sheets as required):

Names: Pennoni Associates, Inc. Phone: _____

Address: 1900 Market St., Suite 300, Philadelphia, PA 19103 Email: _____

Contact Person: Carl St. Pierre, PE Title: _____

Client/Owner: Ballinger Architects and Aegis (Owner's Rep.)

Names: _____ Phone: _____

Address: _____ Email: _____

Contact Person: _____ Title: _____

Submitted by:

Firm/Organization: _____ Phone: _____

Signature: _____ Email: _____

To be Presented on December 5th by: Carl St. Pierre, PE-Pennoni Associates

Email CarlStPierre@Pennoni.com Cell Phone: _____

A \$50 Entry Fee is required and is to be submitted with the Nomination Form.

The entry fee is to be made payable to PSPE, Philadelphia Chapter.

Nomination is due: November 15, 2024 Presentations: Thursday, December 5, 2024

Send by Email or Fax Nomination to: oea@pspe-philly.org or 215-885-3732

Payment of the Application Fee may be check or by credit card.

To pay by credit card, click to [PAYPAL BUYNOW](#) button on our website <http://www.pspe-philly.org/oea/entryfee.htm>

To pay by check please mail to:

Fredric L. Plotnick, Ph.D., Esq., P.E. Chairman, Outstanding Engineering Achievement Awards
5000 Boardwalk Apt 1901, Ventnor NJ 08406 Phone: 215-885-3733, Fax: 215-885-3732,
email: oea@pspe-philly.org or oea@fplotnick.com or fplotnick@fplotnick.com

Calder Garden & Museum Philadelphia, PA



Pennoni is providing civil/site, survey, geotech, transportation, inspection & testing as well as environmental services for the new Calder Garden and Museum in Philadelphia, PA.

The Calder Museum is currently constructing an iconic museum building and garden on the Benjamin Franklin Parkway in Philadelphia to showcase artwork by Alexander Calder.

Pennoni is providing survey, civil/site, geotech, transportation, inspection & testing, as well as environmental services for the design of an 18,000-SF museum building and garden. Pennoni is works with Herzog & de Meuron (design architect) and Ballinger (local architect of record) to provide civil engineering design.

Pennoni has been instrumental in obtaining approvals and preparing construction documents for the new Calder Garden Museum. An existing 48" water main was in the middle of the site and required relocation to allow for the construction of the new building. Pennoni designed and coordinated the relocation with the Philadelphia Water Department (PWD) and the design team. Our team was a key component in designing and obtaining approvals from PWD

for the water main relocation work. Pennoni provided construction oversight (including environmental and IT services) of the water main relocation.

The proposed gallery space and outdoor gardens will be approximately 10-ft. below grade and approximately 6-ft. below the Base Flood Elevation of the adjacent Schuylkill River 100-year floodplain. Pennoni coordinated and assisted the project team to design measures to reduce the risk of the building flooding during a large rainfall event. Flood gates will be provided and installed at the basement openings for large rainfall events. Our Geotech team worked with Ballinger's structural engineers to design a flood proof foundation system for the building. An exterior pump was designed to drain the runoff from the outdoor Vestige garden during a rainstorm. Emergency overflow stormwater basins are proposed to store runoff in case the pumps fail during a rain storm. The project is expected to be completed in Fall of 2025.