

PCI Bridge and Transportation Projects Design Award Program Guidelines for Submittal

To qualify for award, the precast concrete used in the project must have been manufactured in a permanent precast concrete manufacturing plant located in North America. The precaster need not be a member of PCI.

Entry Categories:

New or replacement Bridges:

Main Span up to 75 feet long (Code TA)

Main span from 75 to 150 feet long (Code TB)

Main span more than 150 feet long (Code TC)

Rehabilitated Bridge (Code TD) – qualifies when at least a portion of the super structure remains from the original bridge

Non-Highway Bridge (Code TE) – includes pedestrian, bicycle or snowmobile bridges, railroad bridges, transit bridges, etc.

Special Solution (Code TZ) – transportation-related structures such as sound walls, pavements or bridges of other materials that have as a key feature, one or more of the following components: precast concrete bridge approach slabs; precast deck panels; precast footings, abutments, piers or railings; or when a precast concrete bridge has been transported as a complete structure into its final position

Owner-Designed Project (Code TF) – any project designed "in-house" by a public agency. Please note that this type of project must first be entered in the appropriate category in the list above. It will then automatically be entered in this additional category.

Optional Categories (in addition to those above)

You may wish to have your project judged in one or more of the following categories. A separate submission is NOT required. However, a separate "Description Sheet" might be advantageous to describe succinctly how the project meets the objectives of the awards below. You may include as much information as needed to support your contentions and inform the judges about the merits of the project.

Harry H. Edwards Industry Advancement Award (Code TH) – The purpose of this award is to showcase fresh, uninhibited concepts that hold the potential to move the precast concrete industry to the next generation of technology for materials, products, processes and applications.

All-Precast Award (Code TP) – This award recognizes a structure in which the owner's needs were best achieved by the selection of a precast, prestressed concrete system comprising two or more types of integrated precast components.

Sustainability Award (Code TS) – PCI seeks to promote green infrastructure, which incorporates environmental considerations in every possible phase of the process, including design, construction and operation. The purpose of this award is to recognize the construction of responsible, innovative designs that are sensitive to the environment while meeting the needs of the public and the owner. Suggestions for submittals in this optional category:

1. List all green goals or owner/public project objectives and a short explanation of how they were achieved.
2. Submit a short narrative on any green/sustainable modifications to the precasting plant processes and procedures that were required for this project.
3. Describe the sustainable attributes precast concrete added to the project.
4. Describe any upfront and ongoing collaboration among design and construction team members.
5. List any lessons learned related to working on a green project.

The required "Fact Sheet" should provide as much of the following information as possible, in the order listed (dimensions and quantities should be in conventional units or following SI units in parenthesis):

1. Entry Category and Code from list above
2. Type of bridge or structure (e.g., interstate highway bridge; river crossing, flyover ramp, etc.)
3. Geometry of the bridge or structure as applicable
 - a. Overall length(s)
 - b. Overall width(s)
 - c. Total area(s) of deck or wall
 - d. Number of spans and their lengths
 - e. Skew(s) of the support(s) measured from a line normal to the bridge centerline
 - f. Radius of horizontal curve (if relevant)
 - g. Predominant grade in percent (if relevant)
 - h. Number of lanes
4. A list of all **precast** components used with quantities and dimensions **if practical**. Examples are:
 - a. **Bridge I- & Bulb-Tee Girders, Box Beams, Voided Slabs** – number of units, sizes, lengths and total lengths
 - b. **Bridge Deck Panels** – number of units, size of panels, total square footage
 - c. **Piles** – number of units, sizes, lengths and total lengths
 - d. **Footings, Abutments, Pier Columns, Pier Beams, Wall Panels** – number of units, dimensions, total square/lineal footage
 - e. **Reinforced Earth Components** – if significant to the project
 - f. **Bridge Approach Slabs** – number of units, size of panels, total square footage
 - g. **Highway Pavements** – number of units, size of panels, total square footage
5. Cost information (not necessary to provide cost of precast concrete components)
 - a. Total cost of the project
 - b. Total cost of the bridge
 - c. Cost of the bridge per square foot of the bridge
6. Schedule information
 - a. Time in design (if relevant)
 - b. Total time of construction
 - c. Total time of road closure (if relevant)
 - d. Date of completion (open to traffic)
7. Summary list of key design challenges (geography, geometry, aesthetics, cost, time, etc.)
8. Summary of innovations or accomplishments using precast concrete and all other design accomplishments of note

Note: A separate Fact Sheet may be used if necessary for submitting information unique to the Optional Categories.

Notes on other required enclosures:

1. **Credit Sheet** – Complete the form supplied with the Call for Entries or download from the web site. It is the only place in the submittal where the project and participants are identified. Anonymity is requested but it is **not** necessary to redact information from plan sheets, photos, etc.
2. **Project Description** – there is no limit to the size or detail of this section. The design challenges and the innovation and accomplishments should be fully developed and explained here. It is important for the judges to understand why the project is note worthy, why decisions were made and if there were significant accomplishments with respect to cost, aesthetics or time of construction, etc. All obvious and seemingly minor design decisions should be described. You may include testimonials, media coverage, etc.
3. **Disk or CD** – must be PC-formatted and include only the following
 - a. Type of bridge from item 2 above
 - b. Maximum 50-word summary of the project
 - c. Save files as Microsoft Word (*.doc) or text-only file (*.txt)
4. **Photographs** – At least four 8" x 10" color prints should be included if possible. Lasers or ink-jet prints are not suitable. Digital photography is acceptable and should be 8" x 10" images at 300 DPI resolution (high resolution). See Note below.
5. **Supplemental images** are encouraged, for example, construction or fabrication photographs. They may be glossy photos or submitted on a separate disk preferably in *.jpg format.
6. **Supplemental information** – plans, drawings, sections, elevations or sketches are encouraged. These may be hard copy or submitted on a separate disk.

Note – Photography can be very important, especially if the project exhibits aesthetic features or is located in a photogenic setting. While the judges attempt to evaluate entries based on technical merit, photos are often influential. Sometimes the entry has no exceptional visual qualities but exhibits design or construction innovation. Photos of construction and fabrication can easily describe complex issues or construction sequences. Photographs are important to PCI for publicizing winners and for featuring other projects in PCI publications. Some form of high resolution photos are needed for publication purposes. **Do not let the requirement for photography deter you from entering; other work-around solutions are possible.**

Please see the "Call for Entries" for more details about the Awards Program.