

ACEC

AMERICAN COUNCIL OF ENGINEERING COMPANIES
of North Carolina

Call for Entries

2022 Engineering Excellence Awards

Engineering Excellence
2021
Award Winner

American Council of Engineering Companies of North Carolina

RIVERBEND CONTINUOUS FLOW INTERSECTION U-6084 | Charlotte, North Carolina



DESCRIPTION: Stantec designed the roadway and traffic engineering and obtained an environmental permit for the CFI. The roadway design focused on improving roadway geometry and maintaining pedestrian movements with minimal right-of-way and utility impacts. We also completed transportation management, signing and delineation, and signal designs. Now complete, the CFI will help Corning Optical Communications and the Riverbend Multi-Purpose Development manage the expected traffic levels. **LEFT:** Aerial view of the continuous flow intersection showing offset lefts, bypass rights, auxiliary through lanes, adjacent site development and proximity to I-85 and downtown Charlotte. **MIDDLE:** With five movements progressing simultaneously, you can see why it is called a "Continuous" Flow Intersection. **RIGHT:** A quiet early evening moment captured at the Riverbend CFI, after possibly handling 83,000 vehicles a day in the design year.

2021 Grand Conceptor Winner

Stantec

Riverbend Continuous Flow Intersection U-6084

Charlotte, North Carolina



2022 Call for Entries

The American Council of Engineering Companies of North Carolina (ACEC/NC) Engineering Excellence Awards (EEA) is an annual competition that honors and recognizes engineering and surveying firms for projects which demonstrate the highest degree of achievement, value and ingenuity.

ELIGIBILITY

An engineering or surveying firm is eligible to enter the awards program as long as they hold current membership in ACEC/NC. Non-member firms are not eligible to submit.

GENERAL CRITERIA

- 1** Member engineering firms' entries must be submitted through ACEC/NC to qualify for the National Competition at ACEC.
- 2** Projects entered in the ACEC/NC competition must have been executed by a company physically located in North Carolina. The project may have been outside the state, but the work must have been executed in North Carolina.
- 3** Research and Studies (Category A) or Surveying and Mapping projects (Category D) must have been publicly disclosed by the clients between November 1, 2019 and October 31, 2021.
- 4** Construction of projects (Categories B through L – with the exception of D) must have been substantially completed and ready for use between November 1, 2019 and October 31, 2021.
- 5** Engineering projects that have won awards in other state or national organizations' awards programs may be entered.
- 6** Applicants are welcome to submit one project per category or submit one project in more than one category. A project not receiving an award in one year may be resubmitted the following year in the same category provided all eligibility criteria are met.
- 7** Each entry must be submitted electronically in adherence with the specifications noted on page four of this document. Non-compliance with the rules will automatically disqualify an entry. Please read requirements thoroughly.

DATESTOREMEMBER

ACEC/NC schedule for submittals are as follows:

Deadline for Entries

September 24, 2021

Judging of Entries

September 27 - October 8, 2021

Awards Ceremony

November 11, 2021

ACEC/NC grand winners may also re-submit to ACEC National's EEA Competition. (limit 10 entries)

ACEC National's schedule for submittals are as follows:

Deadline for Entries

January 7, 2022

Judging of Submittals

February 18-22, 2022

EEA Gala - Washington, DC

May 24, 2022

JUDGING

Entries are to be judged (by an outside panel of judges) on the basis of overall engineering excellence in each of twelve practice areas, based only on the work performed by the entering firm and scored in accordance with the guidelines listed below. Based on each project's overall score, projects can receive one of the following awards: Honors Award (85 - 90 points), Grand Award (91 - 100 points), or Grand Conceptor (highest points awarded by the judges). Once the judging has been completed, entrants will be notified as to whether or not their project will be honored with an award, but the specific level of the award the project will receive will not be announced until the ACEC/NC Engineering Excellence Awards Dinner on November 11, 2021 in Pinehurst, NC.

25%

Original or Innovative Application of New or Existing Techniques:

- Does the entry demonstrate use of a new science or a breakthrough in the general knowledge of engineering?
- Does the entry represent a unique application of different technology, techniques, materials or equipment?

20%

Future Value to the Engineering Profession:

- Will the entry redefine current engineering thinking?
- Does the entry advance a positive public image of engineering excellence?

15%

Social, Economic & Sustainable Design Considerations:

- Do the solutions identified produce secondary benefits of value to the community environment?
- Does the entrant's approach provide society with social, economic, or sustainable development benefits?
- Is the public health, safety or welfare significantly improved as a result of entrant's and/or the affected environment's, contribution to the project?

20%

Complexity:

- Did the entry successfully address very complex criteria or unique problems?
- Were extraordinary problems of site, location, hazardous conditions, project requirements or similar elements present?
- Did the entry require out-of-the-ordinary technology and ingenuity for achievement of project goals?

20%

Exceeding Client / Owner Needs:

- Did the engineer or entrant successfully engage the client/owner in the overall project development process?
- Is it an economical and cost-effective solution?
- How did final cost relate to original budget estimate?
- How closely does the entrant's solution meet the total goals of the client/owner?
- Did the entrant meet the client's time schedule?

PRACTICE AREAS FOR ENGINEERING EXCELLENCE AWARDS

- A** **Studies, Research, and Consulting Engineering Services**
Non-design services including, but not limited to:
- New Products, Materials and Technologies
 - Basic Research and Studies
 - Technical Papers
 - Water Conservation
 - Project Feasibility Studies/Economic/Risk
 - Expert Testimony
 - Computer/Software Technology
 - Public Outreach/Involvement
 - Security Plans
 - Value Engineering
- None of the projects entered in Category A are involved with the preparation of construction documents.
- B** **Building/Technology Systems**
- Mechanical/Electrical/Plumbing
 - Communications
 - Software Systems
 - Efficiency Certification Standards, e.g. LEED
 - Secure Facilities (Military, Research, Correctional)
 - Computer/Technology
 - Acoustics
 - Sustainability or Carbon Neutrality
 - Energy Efficiency - New and Retrofit
- C** **Structural Systems**
- Foundations
 - Buildings
 - Towers
 - Stadiums
 - Tunnels
 - Seismic Design
 - Bridges
- D** **Surveying and Mapping Technology**
- Geometrics, ALTA, Land Title and Rights Surveys
 - Control, GPS, Monitoring or Construction Surveying
 - Surveying Mapping, GIS/LIS Photogrammetry
- E** **Environmental**
- Hazardous Waste
 - Solid Waste
 - Noise
 - Waste Pond Management
 - Mitigation
 - Restoration/Reclamation/Remediation
 - Air Quality
 - Recycling
 - Carbon Sequestration and Trading
- F** **Wastewater and Stormwater**
- Graywater Systems
 - Residuals Management and Reuse
 - Mine Tailings
 - Stormwater Management
 - CSOs
 - Wastewater Collection/Treatment and Disposal
 - Agriculture
 - Erosion Control
- G** **Water Resources**
- Hydraulics, Hydrology
 - Treatment
 - Watershed Management
 - Flood Risk Management
 - Coastal and Eco-System Restoration
 - Irrigation
 - Surface and Groundwater Supply Development
 - Transmission, Distribution & Storage
 - Water Use Reduction
 - Climate Adaptation
 - Locks/Dams/Water Control Structures
- H** **Transportation**
- Highways
 - Rail
 - Public Transit
 - Airports
 - Marine/Ports
 - Intermodal Facilities

- I Special Projects**
- Safety and Security
 - Land Development
 - Recreational Facilities
 - Program and Construction Management
 - Corrosion Protection/Cathodic Protection
 - Trenchless Technologies
 - Subsurface Engineering

- J Small Projects**
- Total project construction budget does not exceed \$2.5 Million. At the entrant's discretion, except for entries in Category A, projects under \$2.5 million are not limited to this category.

- K Energy**
- Transmission and Distribution
 - Power Generation
 - Renewable Energy
 - Cogeneration
 - Energy Storage Technologies
 - Energy Usage Reduction Programs
 - Demand Side Management

- L Industrial and Manufacturing Processes and Facilities**
- Petrochemical
 - Biotech
 - Manufacturing
 - Heavy Industry
 - Industrial Waste
 - Materials Handling
 - Mining, Metallurgy, Mineralogy

HOW TO SUBMIT AN ENTRY:

- 1** Upload Entry Form along with items 2 through 6 in the online portal.
- 2** A 100-word summary of the project clearly and concisely describing the project and the entrant's participation in the project on firm's letterhead.
- 3** If you are not the Prime Consultant, you must have an endorsement/approval letter from the Prime Consultant and the client indicating concurrence with your submittal. If you are the Prime Consultant, you must have an endorsement/approval letter from client indicating concurrence with your submittal.
- 4** One compiled copy of a proposed press release (one page max) - written as if the project has already been chosen to win an Engineering Excellence Award - that clearly and concisely describes the project and entrant's participation in the project. Point out the value of the project to the community and identify the number of people served.
- 5** THREE 8" x 10" HIGH RESOLUTION photographs representing various visual aspects of the project. Each photograph should be followed by a brief description of the photo within the PDF or MS Word document submitted. Photo descriptions should not exceed three sentences (approximately 75 words or less). Please submit the three (3) HIGH RESOLUTION jpegs.
- 6** One compiled copy of the following, not to exceed 1500 words total:
 - Role of the entrant's firm in the project
 - Role of other consultants participating in the project
 - Brief description of the entrant's contribution to the project addressing each of the following:
 - Original or Innovative Application of New or Existing Techniques
 - Future Value to Engineering Profession
 - Social/Economic and sustainable design Considerations
 - Complexity
 - Exceeding Owner/Client Needs
- 7** Please contact Tammy Bromley at tbromley@acecnc.org to establish a unique log-in for the portal for submitted items.
- 8** An entry fee of \$800 for ACEC/NC members must be paid and received no later than September 24, 2021.

Entry Form

2022 Engineering Excellence Awards

This year entries will be submitted electronically. The information listed below will need to be completed online when you submit the entry. Please be prepared to furnish all the information requested below for each entry. Please limit the project name to 45 characters.

Please contact Tammy Bromley at (919) 781-7934 or tbromley@acecnc.org to establish a username to upload your submission(s) in the online portal by 5pm (EST) September 24, 2021.

PROJECT PRACTICE AREA (place an X in one box):

- | | |
|--|---|
| <input type="checkbox"/> A. Studies, Research, and Consulting Engineering Services | <input type="checkbox"/> G. Water Resources |
| <input type="checkbox"/> B. Building/Technology Systems | <input type="checkbox"/> H. Transportation |
| <input type="checkbox"/> C. Structural Systems | <input type="checkbox"/> I. Special Projects |
| <input type="checkbox"/> D. Surveying and Mapping Technology | <input type="checkbox"/> J. Small Projects |
| <input type="checkbox"/> E. Environmental | <input type="checkbox"/> K. Energy |
| <input type="checkbox"/> F. Wastewater and Stormwater | <input type="checkbox"/> L. Industrial and Manufacturing Processes and Facilities |

PROJECT INFORMATION:

Name of Project: _____

Project Location: _____

Owner/Client Address: _____

Entering Firm Name: _____

Firm _____ Contact: _____

Address: _____

Tel: _____ Email: _____

Budgeted Project Cost: _____ Actual Project Cost: _____

Scheduled Date of Completion: _____ Actual Date of Completion: _____

If your project entry is a winner please indicate your plans to re-submit to ACEC for national competition:

_____ Will re-submit _____ Will not re-submit

ENTRY FEES:

\$800 per entry for ACEC/NC Members only

Checks in the appropriate amount due (made payable to ACEC/NC) must be received at the ACEC/NC office no later than September 24, 2021.

The ACEC/NC office is located at:
American Council of Engineering Companies of North Carolina
150 Fayetteville Street, Ste. 1340
Raleigh, NC 27601

Questions? Please contact [Tammy Bromley](mailto:tbromley@acecnc.org) or the ACEC/NC office at 919-781-7934.