



ACI Virginia Chapter Commonwealth Award



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ACI – Virginia Chapter



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Commonwealth Award Details

SUBMISSION CATEGORIES

Low Rise*

Mid Rise

High Rise

Infrastructure*

Decorative
Concrete

Repair &
Restoration*

Flatwork (new
next year)

JUDGING CRITERIA

- Architectural & engineering merit
- Creativity
- Innovative construction techniques, solutions, & use of materials
- Ingenuity
- Sustainability & Resilience
- Functionality & end use suitability



Honorable Mention

**FACEBOOK DATA CENTER – CENTURY
CONCRETE**



**ICF FARMHOUSE – SB COX READY
MIX**



Honorable Mention

**I-95 SB REST AREA TRUCK PARKING –
VDOT & ROBERT SMITH INC.**



**PIER 3 MODIFICATIONS – CROFTON
INDUSTRIES**



Category Winner – Low Rise

3D Printed Houses

Newport News & James City Co.

- Submitted by The Structures Group
- Three residences for Habitat for Humanity
- 3D Printed Walls
 - Two 3” widths with a 6.5” cavity filled with insulation
- 6000 psi mortar used and tested daily



Category Winner – Repair and Restoration

Boardwalk Improvements Buckroe Beach

- Submitted by JMT
- Boardwalk restoration
 - ADA access
 - Improved seating and lighting
 - Boardwalk extension to fishing pier
 - New landscaping
 - Decorative concrete sundial
- Sustainability
- Improved useability



Commonwealth Award Winner Category Award Winner - Infrastructure

I-64 Southside / High Rise Bridge Chesapeake, VA



High Rise Bridge – Project Challenges

- Environment
- Navigation
- Corrosive water and soil
- R/W and utility restrictions
- Traffic constraints
- Concrete mix design, mixing, & delivery
- Beam fabrication



High Rise Bridge – Low Maintenance, Long Life Solutions

- 6,110' long bridge with 100' vertical clearance
- Up to 196' long, 95" deep prestressed bulb-T beams
- Corrosion resistant reinforcing including CFRP and SS in piles
- High performance concrete up to 10ksi for bulb-Ts



High Rise Bridge – Project Team

- **Owner**
 - Virginia Department of Transportation
- **Structural Engineer**
 - Parsons Transportation Group
- **Prime Contractor**
 - Granite – Parsons – Corman Joint Venture (DB contract)
- **Concrete Contractors**
 - Granite-Corman
 - Denbigh Concrete Construction
 - Tavares Concrete
- **Concrete Suppliers**
 - Costal Precast Systems
 - Commercial Ready Mix Products
 - Concrete Pipe and Precast



Thank you

For more information about the ACI Virginia Chapter, please visit our website at www.acivirginia.org



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