

# Subject Index

## ABSTRACT OF PCI TECHNICAL PUBLICATION

“The State of the Art of Precast/Prestressed Integral Bridges,”  
V. 47, No. 1, January-February 2002, p. 110.

## APPLICATIONS

### Airplane Hangar

“SEL Airplane Hangar, Moscow/Pullman Airport, Pullman, Washington,” George D. Nasser, V. 47, No. 2, March-April 2002, pp. 134-135.

### Architectural Precast Concrete

“GFRC Panels Give Terra Cotta Look to Chicago Art Institute Residence Hall,” Harry Soenksen and James E. Tolson, Jr., V. 47, No. 1, January-February 2002, pp. 14-25.

“Architectural Precast Concrete Panels Beautify Façade of Kuwait Scientific Center,” Charles Redmon and Nick A. Forbess, V. 47, No. 3, May-June 2002, pp. 46-57.

“W Hotel, San Francisco, California,” George D. Nasser, V. 47, No. 4, July-August 2002, pp. 168-171.

“UGA’s Carlton Street Parking Facility Meets University Demands for Construction Speed and Aesthetics,” Leonard Smith, Eric Schunk, James H. Knight and Nebil B. Sedki, V. 47, No. 6, November-December 2002, pp. 36-46.

### Bridges (see BRIDGES)

### Buildings

“GFRC Panels Give Terra Cotta Look to Chicago Art Institute Residence Hall,” Harry Soenksen and James E. Tolson, Jr., V. 47, No. 1, January-February 2002, pp. 14-25.

“Midwest Wireless Communications Headquarters, Mankato, Minnesota,” George D. Nasser, V. 47, No. 1, January-February 2002, pp. 150-156.

“Design-Construction of The Paramount – A 39-Story Precast Prestressed Concrete Apartment Building,” Robert E. Englekirk, V. 47, No. 4, July-August 2002, pp. 56-71.

“W Hotel, San Francisco, California,” George D. Nasser, V. 47, No. 4, July-August 2002, pp. 168-171.

“Seismic Design and Construction of Precast Concrete Buildings in New Zealand,” Robert Park, V. 47, No. 5, September-October 2002, pp. 60-75.

“Casino Nova Scotia, Halifax, Nova Scotia, Canada,” George D. Nasser, V. 47, No. 5, September-October 2002, pp. 142-145.

“Martha Dixon Building, FBI Field Office, Pittsburgh, Pennsylvania,” George D. Nasser, V. 47, No. 6, November-December 2002, pp. 137-139.

### Parking Structures

“Primary Children’s Medical Center Parking Structure, Salt Lake City, Utah,” George D. Nasser, V. 47, No. 2, March-April 2002, pp. 136-140.

“UGA’s Carlton Street Parking Facility Meets University Demands for Construction Speed and Aesthetics,” Leonard Smith, Eric Schunk, James H. Knight and Nebil B. Sedki, V. 47, No. 6, November-December 2002, pp. 36-46.

### Science Building

“Architectural Precast Concrete Panels Beautify Façade of Kuwait Scientific Center,” Charles Redmon and Nick A. Forbess, V. 47, No. 3, May-June 2002, pp. 46-57.

### Waterfront Structure

“Design and Construction of the Texaco Wharf Maritime Port Facility, Puerto Cortés, Honduras,” Li Zhenqiang and Rigoberto Ramirez C., V. 47, No. 4, July-August 2002, pp. 78-88.

## AWARDS PROGRAM WINNERS

“2002 PCI Design Awards Program, The Winning Entries,” V. 47, No. 5, September-October 2002, pp. 14-19.

- Hearst Tower, Charlotte, North Carolina, p. 16.
- Bacs Corporate Offices, Merida, Yucatan, Mexico, p. 16.
- Lloyd D. George Courthouse, Las Vegas, Nevada, p. 16.
- San Diego Convention Center, San Diego, California, p. 16.
- Cape Coral City Hall, Cape Coral, Florida, p. 16.
- AT&T Building Addition, Chicago, Illinois, p. 16.
- The River Street Garage, Harrisburg, Pennsylvania, p. 17.
- North Shore Garage, Pittsburgh, Pennsylvania, p. 17.
- American Family Insurance Building C Parking Structure, Madison, Wisconsin, p. 17.
- Millennium Carillon, Naperville, Illinois, p. 17.
- Metronome, New York, New York, p. 17.
- Gowen Avenue Bridge, Philadelphia, Pennsylvania, p. 18.
- Pacific Avenue Overcrossing, Everett, Washington, p. 18.
- Sturgeon River Bridge, Villeneuve, Alberta, Canada, p. 18.
- Rte. 35 over Navesink River Monmouth County, New Jersey, p. 18.
- U.S. 27 Moore Haven Bridge, Moore Haven, Florida, p. 18.
- Twisp River Bridge, Okanogan County, Washington, p. 18.
- Interstate 65 Bridge, Birmingham, Alabama, p. 19.
- Le Vecke Bridge, Los Angeles, California, p. 19.
- Arbor Rail Line Bridge 5.90, Nebraska City, Nebraska, p. 19.

“Best All-Precast Solution” Category:

- University of Georgia Carlton Street Parking Facility, Athens, Georgia, p. 19.

“Harry H. Edwards Industry Advancement Award” Category:

- The Paramount, San Francisco, California, p. 19.
- Bridge Street Bridge Project, Southfield, Michigan, p. 19.

## BRIDGES

“Optimal Sizing of Prestressed Bridge Superstructures in Pennsylvania by LRFD,” Alex Aswad, Basel Djazmati and G. Gus Aswad, V. 47, No. 1, January-February 2002, pp. 26-37.

“Lightweight Concrete Reduces Weight and Increases Span Length of Pretensioned Concrete Bridge Girders,” Karl F. Meyer and Lawrence F. Kahn, V. 47, No. 1, January-February 2002, pp. 68-75.

“Flexural Strengthening of Prestressed Bridge Slabs with FRP Systems,” Tarek Hassan and Sami Rizkalla, V. 47, No. 1, January-February 2002, pp. 76-93.

Problems & Solutions: “Effective Compression Depth of T-Sections at Nominal Flexural Strength,” Stephen J. Seguirant, V. 47, No. 1, January-February 2002, pp. 100-105.

Abstract of PCI Technical Publication – “The State of the Art of Precast/Prestressed Integral Bridges,” V. 47, No. 1, January-February 2002, p. 110.

“Testing of Ultra-High-Performance Concrete Girders,” Joseph Hartman and Benjamin Graybeal, V. 47, No. 1, January-February 2002, pp. 148-149.

“New Deep WSDOT Girders Used for the Twisp River Bridge,” John A. Van Lund, Paul D. Kinderman, and Stephen J. Seguirant, V. 47, No. 2, March-April 2002, pp. 20-31.

“Seismic Performance of Precast Segmental Bridge Superstructures with Internally Bonded Prestressing Tendons,” Sami Megally, Frieder Seible, Manu Garg and Robert K. Dowell, V. 47, No. 2, March-April 2002, pp. 40-56.

“Design of Precast Prestressed Concrete Members Using External Prestressing,” Nihal Don Ariyawardena and Amin Ghali, V. 47, No. 2, March-April 2002, pp. 84-94.

“Double Tees Provide Solution for Windward School – North Campus Bridge,” Susan P. Leiffield and V. Joseph Pica, V. 47, No. 3, May-June 2002, pp. 38-44.

“Girder/Deck Connection for Rapid Removal of Bridge Decks,” Maher K. Tadros, Sameh S. Badie and Mounir R. Kamel, V. 47, No. 3, May-June 2002, pp. 58-69.

“Behavior of CFCC and CFRP Leadline Prestressing Systems in Bridge Construction,” Nabil F. Grace, Tsuyoshi Enomoto and Kensuke Yagi, V. 47, No. 3, May-June 2002, pp. 90-103.

Disc., Problems & Solutions: “Effective Compression Depth of T-Sections at Nominal Flexural Strength,” Antoine E. Naaman and Stephen J. Seguirant, V. 47, No. 3, May-June 2002, pp. 107-113.

Disc. “Nonlinear Continuity Analysis of Precast Prestressed Girders with Cast-in-Place Decks and Diaphragms,” Joseph W. Nagle, Amir Mirmiran, Siddharth Kulkarni, Reid Castrodale, Richard Miller and Makarand Hastak, V. 47, No. 3, May-June 2002, pp. 114-118.

“Value Engineering Results in Successful Precast Railroad Bridge Solution,” Shane A. Hennessey and Karen A. Bexten, V. 47, No. 4, July-August 2002, pp. 72-77.

“Pullout Capacity of Non-Prestressed Bent Strands for Prestressed Concrete Girders,” Panya Noppakunwijai, Nipon Jongpitakseel, Zhongguo (John) Ma, Sherif A. Yehia and Maher K. Tadros, V. 47, No. 4, July-August 2002, pp. 90-103.

Problems & Solutions: “Flexural Strength of Continuous Bridge Girders – Avoiding the Penalty in the AASHTO LRFD Specifications,” Amgad Girgis, Chuanbing Sun and Maher K. Tadros, V. 47, No. 4, July-August 2002, pp. 138-141.

“Design-Construction of Bridge Street Bridge – First CFRP Bridge in the United States,” Nabil F. Grace, Frederick C. Navarre, Richard B. Nacey, Wayne Bonus and Loris Collavino, V. 47, No. 5, September-October 2002, pp. 20-35.

“Evaluation of Corrosion Protection for Internal Prestressing Tendons in Precast Segmental Bridges,” Jeffrey S. West, John E. Breen and René P. Vignos, V. 47, No. 5, September-October 2002, pp. 76-91.

“Elimination of Prestressed Concrete Compression Limits at Service Load,” Panya Noppakunwijai, Nabil Al-Omaishi, Maher K. Tadros and Gary L. Krause, V. 47, No. 6, November-December 2002, pp. 48-65.

Disc. “Design of Precast Prestressed Concrete Members Using External Prestressing,” Fadi M. Alkhairi, Nihal Don Ariyawardena and Amin Ghali, V. 47, No. 6, November-December 2002, pp. 108-109.

## CODES AND SPECIFICATIONS

“Seismic Design Provisions in U.S. Codes and Standards: A Look Back and Ahead,” S. K. Ghosh, V. 47, No. 1, January-February 2002, pp. 94-99.

Disc. “Strength Design of Pretensioned Flexural Concrete Members at Prestress Transfer,” Stephen J. Seguirant, Panya Noppakunwijai, Maher K. Tadros, Zhongguo (John) Ma and Robert F. Mast, V. 47, No. 1, January-February 2002, pp. 106-109.

“Building Codes, Standards and Resource Documents: A Status Report,” S. K. Ghosh, V. 47, No. 2, March-April 2002, pp. 96-98.

“The Concrete Design and Construction Provisions of the NFPA 5000 Building Code,” S. K. Ghosh, V. 47, No. 3, May-June 2002, pp. 104-106.

“The Building Code Process: An Introduction,” S. K. Ghosh, V. 47, No. 4, July-August 2002, pp. 134-137.

“2001 California Building Code,” S. K. Ghosh, V. 47, No. 5, September-October 2002, pp. 102-104.

“Elimination of Prestressed Concrete Compression Limits at Service Load,” Panya Noppakunwijai, Nabil Al-Omaishi, Maher K. Tadros and Gary L. Krause, V. 47, No. 6, November-December 2002, pp. 48-65.

“Untopped Precast Concrete Diaphragms in High-Seismic Applications,” S. K. Ghosh and Ned M. Cleland, V. 47, No. 6, November-December 2002, pp. 94-99.

## COMMITTEE REPORTS

“User’s Guide for Handling, Storage, and Erection of Prestressed Concrete Poles,” PCI Committee on Prestressed Concrete Poles, V. 47, No. 2, March-April 2002, pp. 14-19.

“Recommended Practices and Procedures for the Erection of Vertical Litewalls with Corbels and Pocketed Spandrels,” PCI Erectors Committee Litewall Fast Team and PCI Erectors Committee, V. 47, No. 3, May-June 2002, pp. 14-20.

“Recommended Practices and Procedures for the Erection of Vertical Litewalls with Corbels and Haunched Spandrels,” PCI Erectors Committee Litewall Fast Team and PCI Erectors Committee, V. 47, No. 3, May-June 2002, pp. 22-27.

“Recommended Practices and Procedures for the Erection of Vertical Litewalls with Pockets and Haunched Spandrels,” PCI Erectors Committee Litewall Fast Team and PCI Erectors Committee, V. 47, No. 3, May-June 2002, pp. 28-33.

“Recommended Practices and Procedures for the Erection of Horizontal Litewalls with Pocketed or Haunched Spandrels,” PCI Erectors Committee Litewall Fast Team and PCI Erectors Committee, V. 47, No. 3, May-June 2002, pp. 34-36.

“Author Guidelines for Preparing PCI JOURNAL Manuscript Submissions,” PCI JOURNAL Advisory Committee, V. 47, No. 5, September-October 2002, pp. 113-115.

## CONNECTIONS

“Validation of an Alternative Reinforcing Detail for the Dapped Ends of Prestressed Double Tees,” Antonio Nanni and Pei-Chang Huang, V. 47, No. 1, January-February 2002, pp. 38-49.

“Girder/Deck Connection for Rapid Removal of Bridge Decks,” Maher K. Tadros, Sameh S. Badie and Mounir R. Kamel, V. 47, No. 3, May-June 2002, pp. 58-69.

“Seismic Tests of Beam-to-Column Connections in a Precast Concrete Frame,” Sergio M. Alcocer, Rene Carranza, David Perez-Navarrete and Raul Martinez, V. 47, No. 3, May-June 2002, pp. 70-89.

"Behavior of Welded Plate Connections in Precast Concrete Panels Under Simulated Seismic Loads," Christian L. Hofheins, Lawrence D. Reaveley and Chris P. Pantelides, V. 47, No. 4, July-August 2002, pp. 122-133.

## DESIGN

"Optimal Sizing of Prestressed Bridge Superstructures in Pennsylvania by LRFD," Alex Aswad, Basel Djazmati and G. Gus Aswad, V. 47, No. 1, January-February 2002, pp. 26-37.

"Validation of an Alternative Reinforcing Detail for the Dapped Ends of Prestressed Double Tees," Antonio Nanni and Pei-Chang Huang, V. 47, No. 1, January-February 2002, pp. 38-49.

"Design of Rectangular Openings in Precast Walls Under Vertical Loads," Michael G. Allen and Yahya C. Kurama, V. 47, No. 1, January-February 2002, pp. 50-67.

"Lightweight Concrete Reduces Weight and Increases Span Length of Pretensioned Concrete Bridge Girders," Karl F. Meyer and Lawrence F. Kahn, V. 47, No. 1, January-February 2002, pp. 68-75.

Problems & Solutions: "Effective Compression Depth of T-Sections at Nominal Flexural Strength," Stephen J. Seguirant, V. 47, No. 1, January-February 2002, pp. 100-105.

Disc. "Strength Design of Pretensioned Flexural Concrete Members at Prestress Transfer," Stephen J. Seguirant, Panya Noppakunwijai, Maher K. Tadros, Zhongguo (John) Ma and Robert F. Mast, V. 47, No. 1, January-February 2002, pp. 106-109.

"Design of Rectangular Openings in Precast Walls Under Combined Vertical and Lateral Loads," Michael G. Allen and Yahya C. Kurama, V. 47, No. 2, March-April 2002, pp. 58-83.

"Design of Precast Prestressed Concrete Members Using External Prestressing," Nihal Don Ariyawardena and Amin Ghali, V. 47, No. 2, March-April 2002, pp. 84-94.

Disc. "Behavior of Precast, Prestressed Concrete Pile to Cast-in-Place Pile Cap Connections," David A. Sheppard, Kent A. Harries and Michael F. Petrou, V. 47, No. 2, March-April 2002, pp. 101-103.

"Girder/Deck Connection for Rapid Removal of Bridge Decks," Maher K. Tadros, Sameh S. Badie and Mounir R. Kamel, V. 47, No. 3, May-June 2002, pp. 58-69.

Disc., Problems & Solutions: "Effective Compression Depth of T-Sections at Nominal Flexural Strength," Antoine E. Naaman and Stephen J. Seguirant, V. 47, No. 3, May-June 2002, pp. 107-113.

Disc. "Nonlinear Continuity Analysis of Precast Prestressed Girders with Cast-in-Place Decks and Diaphragms," Joseph W. Nagle, Amir Mirmiran, Siddharth Kulkarni, Reid Castrodale, Richard Miller and Makarand Hastak, V. 47, No. 3, May-June 2002, pp. 114-118.

"Design-Construction of The Paramount – A 39-Story Precast Prestressed Concrete Apartment Building," Robert E. Englekirk, V. 47, No. 4, July-August 2002, pp. 56-71.

"Value Engineering Results in Successful Precast Railroad Bridge Solution," Shane A. Hennessey and Karen A. Bexten, V. 47, No. 4, July-August 2002, pp. 72-77.

"Pullout Capacity of Non-Prestressed Bent Strands for Prestressed Concrete Girders," Panya Noppakunwijai, Nipon Jongpitakseel, Zhongguo (John) Ma, Sherif A. Yehia and Maher K. Tadros, V. 47, No. 4, July-August 2002, pp. 90-103.

"Seismic Design of Lightly Reinforced Precast Concrete Rectangular Wall Panels," Francisco J. Crisafulli, José I. Restrepo and Robert Park, V. 47, No. 4, July-August 2002, pp. 104-121.

Problems & Solutions: "Flexural Strength of Continuous Bridge Girders – Avoiding the Penalty in the AASHTO LRFD Specifications," Amgad Girgis, Chuanbing Sun and Maher K. Tadros, V. 47, No. 4, July-August 2002, pp. 138-141.

"Hybrid Post-Tensioned Precast Concrete Walls for Use in Seismic Regions," Yahya C. Kurama, V. 47, No. 5, September-October 2002, pp. 36-59.

"Seismic Design and Construction of Precast Concrete Buildings in New Zealand," Robert Park, V. 47, No. 5, September-October 2002, pp. 60-75.

Problems & Solutions: "Rectangular Stress Block and T-Section Behavior," Antoine E. Naaman, V. 47, No. 5, September-October 2002, pp. 106-112.

"Elimination of Prestressed Concrete Compression Limits at Service Load," Panya Noppakunwijai, Nabil Al-Omaishi, Maher K. Tadros and Gary L. Krause, V. 47, No. 6, November-December 2002, pp. 48-65.

"Direct Displacement-Based Design of Precast/Prestressed Concrete Buildings," M. J. Nigel Priestley, V. 47, No. 6, November-December 2002, pp. 66-79.

"Moment Restraint and Second-Order Analysis of a Cantilevered Precast Column Supported by an Isolated Footing," J. Dario Aristizabal-Ochoa, V. 47, No. 6, November-December 2002, pp. 80-93.

Problems & Solutions: "Significance of Transformed Section Properties in Analysis for Required Prestressing," Shane A. Hennessey and Maher K. Tadros, V. 47, No. 6, November-December 2002, pp. 104-107.

Disc. "Design of Precast Prestressed Concrete Members Using External Prestressing," Fadi M. Alkhairi, Nihal Don Ariyawardena and Amin Ghali, V. 47, No. 6, November-December 2002, pp. 108-109.

## DIAPHRAGMS

"Untopped Precast Concrete Diaphragms in High-Seismic Applications," S. K. Ghosh and Ned M. Cleland, V. 47, No. 6, November-December 2002, pp. 94-99.

## DURABILITY

"Evaluation of Corrosion Protection for Internal Prestressing Tendons in Precast Segmental Bridges," Jeffrey S. West, John E. Breen and René P. Vignos, V. 47, No. 5, September-October 2002, pp. 76-91.

## FOUNDATIONS

"Moment Restraint and Second-Order Analysis of a Cantilevered Precast Column Supported by an Isolated Footing," J. Dario Aristizabal-Ochoa, V. 47, No. 6, November-December 2002, pp. 80-93.

## LITEWALLS

"Recommended Practices and Procedures for the Erection of Vertical Litewalls with Corbels and Pocketed Spandrels," PCI Erectors Committee Litewall Fast Team and PCI Erectors Committee, V. 47, No. 3, May-June 2002, pp. 14-20.

"Recommended Practices and Procedures for the Erection of Vertical Litewalls with Corbels and Haunched Spandrels," PCI Erectors Committee Litewall Fast Team and PCI Erectors Committee, V. 47, No. 3, May-June 2002, pp. 22-27.

“Recommended Practices and Procedures for the Erection of Vertical Litewalls with Pockets and Haunched Spandrels,” PCI Erectors Committee Litewall Fast Team and PCI Erectors Committee, V. 47, No. 3, May-June 2002, pp. 28-33.

“Recommended Practices and Procedures for the Erection of Horizontal Litewalls with Pocketed or Haunched Spandrels,” PCI Erectors Committee Litewall Fast Team and PCI Erectors Committee, V. 47, No. 3, May-June 2002, pp. 34-36.

## MATERIALS

### FRP Tendons

“Flexural Strengthening of Prestressed Bridge Slabs with FRP Systems,” Tarek Hassan and Sami Rizkalla, V. 47, No. 1, January-February 2002, pp. 76-93.

“Behavior of CFCC and CFRP Leadline Prestressing Systems in Bridge Construction,” Nabil F. Grace, Tsuyoshi Enomoto and Kensuke Yagi, V. 47, No. 3, May-June 2002, pp. 90-103.

“Design-Construction of Bridge Street Bridge – First CFRP Bridge in the United States,” Nabil F. Grace, Frederick C. Navarre, Richard B. Nacey, Wayne Bonus and Loris Collavino, V. 47, No. 5, September-October 2002, pp. 20-35.

### Glass Fiber Reinforced Concrete

“GFRP Panels Give Terra Cotta Look to Chicago Art Institute Residence Hall,” Harry Soenksen and James E. Tolson, Jr., V. 47, No. 1, January-February 2002, pp. 14-25.

### Grout

“Estimating Post-Tensioning Grout Bleed Resistance Using a Pressure-Filter Test,” Andrea J. Schokker, H. R. Hamilton III and Morris Schupack, V. 47, No. 2, March-April 2002, pp. 32-39.

### Headed Studs

“Shear Strength of Adhesive Anchors,” Timothy S. Bickel and A. Fattah Shaikh, V. 47, No. 5, September-October 2002, pp. 92-101.

### High Performance Concrete

Problems & Solutions: “Air Entrainment for High Performance Concrete,” V. 47, No. 2, March-April 2002, p. 100.

## MISCELLANEOUS

### Author Guidelines

“Author Guidelines for Preparing PCI JOURNAL Manuscript Submissions,” PCI JOURNAL Advisory Committee, V. 47, No. 5, September-October 2002, pp. 113-115.

### Convention

“Preview of the 48th Annual PCI Convention & Exhibition and 1st Annual Concrete Bridge Conference, Nashville, Tennessee, October 6-9,” George D. Nasser, V. 47, No. 4, July-August 2002, pp. 24-53.

“Highlights of PCI’s 48th Annual Convention & Exhibition and First Annual Concrete Bridge Conference, Nashville, Tennessee, October 6-9, 2002,” George D. Nasser, V. 47, No. 6, November-December 2002, pp. 16-35.

“Developing Our Technology and Marketing Our Advantages,” Michael E. Quinlan, V. 47, No. 6, November-December 2002, pp. 20-21.

## Education

“Industry Leaders Plant Seeds Today to Reap Talent Tomorrow – Launching an Internship Program,” Michael W. LaNier, Robin Hake, Elise Hanson and Daniel B. Thatcher, V. 47, No. 6, November-December 2002, pp. 100-102.

## Guest Editorial

Guest Editorial – “Reach for Greatness,” Richard G. Weingardt, V. 47, No. 4, July-August 2002, p. 54.

## Obituaries

“Eugene C. Figg, Jr. (1936-2002),” George D. Nasser, V. 47, No. 2, March-April 2002, p. 120.

“Bruce F. Wood (1957-2002),” George D. Nasser, V. 47, No. 2, March-April 2002, p. 121.

“Anthony P. Chrest (1941-2002),” Eileen Kelley and George D. Nasser, V. 47, No. 3, May-June 2002, p. 135.

“William D. Givens (1933-2002),” Eileen Kelley and George D. Nasser, V. 47, No. 3, May-June 2002, p. 136.

“Max Birkenmaier (1915-2002),” George D. Nasser, V. 47, No. 5, September-October 2002, p. 128.

“Lajos Garay (1923-2002),” George D. Nasser, V. 47, No. 5, September-October 2002, p. 128.

“Ross H. Bryan (1910-2002),” George D. Nasser, V. 47, No. 6, November-December 2002, p. 120.

“William D. Radichel (1920-2002),” George D. Nasser, V. 47, No. 6, November-December 2002, p. 121.

## PEDESTRIAN BRIDGE

“Double Tees Provide Solution for Windward School – North Campus Bridge,” Susan P. Leifield and V. Joseph Pica, V. 47, No. 3, May-June 2002, pp. 38-44.

## PILES

Disc. “Behavior of Precast, Prestressed Concrete Pile to Cast-in-Place Pile Cap Connections,” David A. Sheppard, Kent A. Harries and Michael F. Petrou, V. 47, No. 2, March-April 2002, pp. 101-103.

## POLES

“User’s Guide for Handling, Storage, and Erection of Prestressed Concrete Poles,” PCI Committee on Prestressed Concrete Poles, V. 47, No. 2, March-April 2002, pp. 14-19.

## PROBLEMS & SOLUTIONS

“Effective Compression Depth of T-Sections at Nominal Flexural Strength,” Stephen J. Seguirant, V. 47, No. 1, January-February 2002, pp. 100-105.

“Air Entrainment for High Performance Concrete,” V. 47, No. 2, March-April 2002, p. 100.

Disc. “Effective Compression Depth of T-Sections at Nominal Flexural Strength,” Antoine E. Naaman and Stephen J. Seguirant, V. 47, No. 3, May-June 2002, pp. 107-113.

“Flexural Strength of Continuous Bridge Girders – Avoiding the Penalty in the AASHTO LRFD Specifications,” Amgad Girgis, Chuanbing Sun and Maher K. Tadros, V. 47, No. 4, July-August 2002, pp. 138-141.

“Rectangular Stress Block and T-Section Behavior,” Antoine E. Naaman, V. 47, No. 5, September-October 2002, pp. 106-112.

"Significance of Transformed Section Properties in Analysis for Required Prestressing," Shane A. Hennessey and Maher K. Tadros, V. 47, No. 6, November-December 2002, pp. 104-107.

## RAILROAD BRIDGE

"Value Engineering Results in Successful Precast Railroad Bridge Solution," Shane A. Hennessey and Karen A. Bexten, V. 47, No. 4, July-August 2002, pp. 72-77.

## RESEARCH

"Validation of an Alternative Reinforcing Detail for the Dapped Ends of Prestressed Double Tees," Antonio Nanni and Pei-Chang Huang, V. 47, No. 1, January-February 2002, pp. 38-49.

"Lightweight Concrete Reduces Weight and Increases Span Length of Pretensioned Concrete Bridge Girders," Karl F. Meyer and Lawrence F. Kahn, V. 47, No. 1, January-February 2002, pp. 68-75.

"Flexural Strengthening of Prestressed Bridge Slabs with FRP Systems," Tarek Hassan and Sami Rizkalla, V. 47, No. 1, January-February 2002, pp. 76-93.

"Estimating Post-Tensioning Grout Bleed Resistance Using a Pressure-Filter Test," Andrea J. Schokker, H. R. Hamilton III and Morris Schupack, V. 47, No. 2, March-April 2002, pp. 32-39.

"Seismic Performance of Precast Segmental Bridge Superstructures with Internally Bonded Prestressing Tendons," Sami Megally, Frieder Seible, Manu Garg and Robert K. Dowell, V. 47, No. 2, March-April 2002, pp. 40-56.

Disc. "Behavior of Precast, Prestressed Concrete Pile to Cast-in-Place Pile Cap Connections," David A. Sheppard, Kent A. Harries and Michael F. Petrou, V. 47, No. 2, March-April 2002, pp. 101-103.

"Seismic Tests of Beam-to-Column Connections in a Precast Concrete Frame," Sergio M. Alcocer, Rene Carranza, David Perez-Navarrete and Raul Martinez, V. 47, No. 3, May-June 2002, pp. 70-89.

"Behavior of CFCC and CFRP Leadline Prestressing Systems in Bridge Construction," Nabil F. Grace, Tsuyoshi Enomoto and Kensuke Yagi, V. 47, No. 3, May-June 2002, pp. 90-103.

"Pullout Capacity of Non-Prestressed Bent Strands for Prestressed Concrete Girders," Panya Noppakunwijai, Nipon Jongpitakseel, Zhongguo (John) Ma, Sherif A. Yehia and Maher K. Tadros, V. 47, No. 4, July-August 2002, pp. 90-103.

"Behavior of Welded Plate Connections in Precast Concrete Panels Under Simulated Seismic Loads," Christian L. Hofheins, Lawrence D. Reaveley and Chris P. Pantelides, V. 47, No. 4, July-August 2002, pp. 122-133.

"Evaluation of Corrosion Protection for Internal Prestressing Tendons in Precast Segmental Bridges," Jeffrey S. West, John E. Breen and René P. Vignos, V. 47, No. 5, September-October 2002, pp. 76-91.

"Shear Strength of Adhesive Anchors," Timothy S. Bickel and A. Fattah Shaikh, V. 47, No. 5, September-October 2002, pp. 92-101.

## SEISMIC RESISTANCE

"Seismic Design Provisions in U.S. Codes and Standards: A Look Back and Ahead," S. K. Ghosh, V. 47, No. 1, January-February 2002, pp. 94-99.

"Seismic Performance of Precast Segmental Bridge Superstructures with Internally Bonded Prestressing Tendons," Sami Megally, Frieder Seible, Manu Garg and Robert K. Dowell, V. 47, No. 2, March-April 2002, pp. 40-56.

"Building Codes, Standards and Resource Documents: A Status Report," S. K. Ghosh, V. 47, No. 2, March-April 2002, pp. 96-98.

"Seismic Tests of Beam-to-Column Connections in a Precast Concrete Frame," Sergio M. Alcocer, Rene Carranza, David Perez-Navarrete and Raul Martinez, V. 47, No. 3, May-June 2002, pp. 70-89.

"Design-Construction of The Paramount – A 39-Story Precast Prestressed Concrete Apartment Building," Robert E. Englekirk, V. 47, No. 4, July-August 2002, pp. 56-71.

"Seismic Design of Lightly Reinforced Precast Concrete Rectangular Wall Panels," Francisco J. Crisafulli, José I. Restrepo and Robert Park, V. 47, No. 4, July-August 2002, pp. 104-121.

"W Hotel, San Francisco, California," George D. Nasser, V. 47, No. 4, July-August 2002, pp. 168-171.

"Hybrid Post-Tensioned Precast Concrete Walls for Use in Seismic Regions," Yahya C. Kurama, V. 47, No. 5, September-October 2002, pp. 36-59.

"Seismic Design and Construction of Precast Concrete Buildings in New Zealand," Robert Park, V. 47, No. 5, September-October 2002, pp. 60-75.

"2001 California Building Code," S. K. Ghosh, V. 47, No. 5, September-October 2002, pp. 102-104.

"Direct Displacement-Based Design of Precast/Prestressed Concrete Buildings," M. J. Nigel Priestley, V. 47, No. 6, November-December 2002, pp. 66-79.

"Untopped Precast Concrete Diaphragms in High-Seismic Applications," S. K. Ghosh and Ned M. Cleland, V. 47, No. 6, November-December 2002, pp. 94-99.

## WALLS

"Design of Rectangular Openings in Precast Walls Under Vertical Loads," Michael G. Allen and Yahya C. Kurama, V. 47, No. 1, January-February 2002, pp. 50-67.

"Design of Rectangular Openings in Precast Walls Under Combined Vertical and Lateral Loads," Michael G. Allen and Yahya C. Kurama, V. 47, No. 2, March-April 2002, pp. 58-83.

"Hybrid Post-Tensioned Precast Concrete Walls for Use in Seismic Regions," Yahya C. Kurama, V. 47, No. 5, September-October 2002, pp. 36-59.

## WALL PANELS

"Seismic Design of Lightly Reinforced Precast Concrete Rectangular Wall Panels," Francisco J. Crisafulli, José I. Restrepo and Robert Park, V. 47, No. 4, July-August 2002, pp. 104-121.

"Behavior of Welded Plate Connections in Precast Concrete Panels Under Simulated Seismic Loads," Christian L. Hofheins, Lawrence D. Reaveley and Chris P. Pantelides, V. 47, No. 4, July-August 2002, pp. 122-133.