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NCP Concrete Preservation News From Miami, Florida

The Royal Club, Condominium Restoration, Miami Beach (South Beach) Florida

The Royal Club Condominiums located at 2457 Collins Avenue, Miami Beach, FL was an early concrete Post-Tension Cable construction design located on the Atlantic Ocean in the trendy South Beach section of Miami Beach. The close proximity to salt breezes and harsh weather conditions contributed to the corrosion problems which ultimately would mandate that large scale restoration would be required. Hillman Engineering, Inc. of Pompano Beach, FL was chosen to perform the corrosion survey and develop specifications for the restoration project. National Concrete Preservation, Inc. of Miami, FL was chosen to perform the restoration work. The Royal Club was

originally completed in 1983 and is an 18 story post-tension reinforced concrete structure. Balconies extending off the core structure were deteriorated to the point that emergency shoring had to be put in place prior to work commencing. During the restoration nearly 80% of the balcony slabs will be replaced. New improved PTC technology is being used on the balcony and slab repairs. In addition to this work, NCP will also be installing new windows, doors, glass railings and waterproof membranes. A parking garage is also part of the complex. Repairs to the



The Royal Club Condominiums

parking garage include deck and column spall repairs, waterproofing and expansion joint repairs. Look for our follow up article at job completion - Fall 2010.

Old Navy Chooses NCP

The Old Navy™ chain of clothing stores recently chose NCP to conduct emergency repairs on two of its retail stores in the Miami metro area. Flooring slabs exhibiting cracks and uneven joints posed a trip hazard. NCP was

contracted to come in during off hours and perform the repairs. NCP had to prepare and seal the surfaces of the slabs during off hours and have the areas ready for customer traffic the next morning. The work had to be done

between the hours of 6:00am and 10:00am with customer traffic resuming at 10:00am. NCP was able to complete all work and have the floors ready for customers in time for the store opening.

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National Concrete Preservation, Inc. of Miami, FL was chosen to perform the restoration work.

Merry Christmas and
Happy New Year from
all of us at National
Concrete Preserva-
tion, Inc.

*Historic Old City Hall,
Miami Beach, FL*



Historic Old City Hall—Miami Beach, FL

Complete restoration of this historic structure located in the center of Miami Beach, FL proved a unique challenge for NCP. The structure originally built in the 1930's would have to be modernized without changing the outward appearance of the structure. NCP applied many unique tech-

niques and technologies to accomplish the goal. Carbon-Fiber Reinforced Polymer was used to strengthen columns and beams, corrosion inhibitors were used in the mix design for concrete and stucco repairs insuring that the completed project would last for many decades into the future.

This project was recognized as one of the most unique in the industry. NCP won the Award of Merit in 2008, from the International Concrete Repair Institute.



The Arlen Beach Condominium Association

Extensive corrosion of the structural steel reinforcement mandated that full depth removal of slabs and replacement of much of the steel be done on this project. NCP was able to perform the work in record time while keeping the disruption of normal traffic to a minimum. NCP uses only highly skilled in-house staff and labor to perform its spe-

cialized restoration procedures. In addition to replacement of corroded steel reinforcement and slab sections, NCP also performed column strengthening to provide additional support for the structure. Look for the completed project in our next issue...



NCP Rolls out New Website

National Concrete Preservation, Inc. rolls out its new website - December 2009. On December 18, 2009 NCP brought its new website on line which includes many new features that offer enhanced services for customers. A built in search engine to direct the viewer to key words is an integral part of the site. New Continuing Education Units (CEU's) are also included on the five major areas of service that NCP is involved with. The Five service areas include:

- Structural Concrete Restoration
- Post-Tension Cable Re-

pairs.

- Waterproofing and membrane application
- Fiber Reinforced Polymer strengthening
- Expansion joint repair and replacement

The site also features key projects and new and innovative technology applications. A quarterly newsletter featuring articles and projects will also be published and distributed on the website. For more information on our new website please visit us at: www.nationalconcrete.net



Fiber Reinforced Polymer (FRP) Strengthening

NCP is pushing the emerging technology of using carbon fiber reinforced strengthening in building restoration. Using epoxy resin technology a carbon fiber woven fabric is bonded directly to the exterior of concrete columns and beams providing dramatically increased tensile strengths as well as greatly improved flexural strengths. This can sig-

nificantly improve the loading capacity of existing slabs in construction where conventional strengthening methods are not possible due to size and weight concerns.

The Historic Old City Hall of Miami Beach, FL



was strengthened using this process. Look for more on FRP in our next

carbon fiber woven fabric is bonded directly to the exterior of concrete columns and beams providing dramatically increased tensile strengths as well as greatly improved flexural strengths.

NCP To Exhibit At Community Associations Institute Annual CA Day and Trade Show —

NCP will be one of the key Event Sponsors at the annual CA Day and Trade Show to be held January 30, 2010 at the Signature Grand—Davie, FL The trade show will feature service and supply companies who direct their business to the Community Association Management Industry. Featured in our booth will be information on our full ser-

vices as well as project referrals and case histories. NCP will be distributing information on its services. Technical Sales Staff will be present to answer any questions that come up. We hope to see you at the event.





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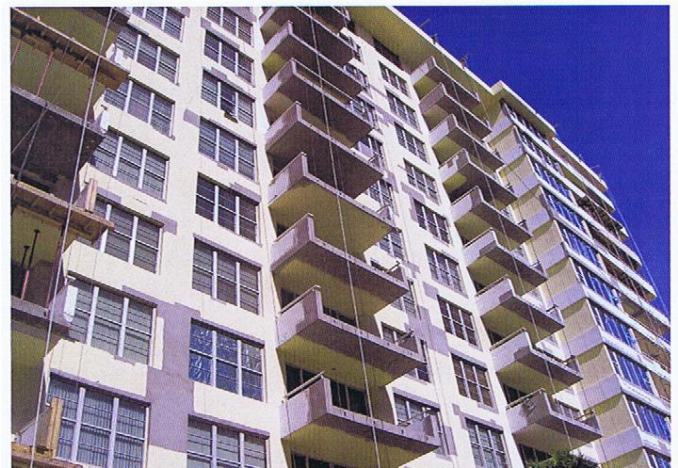
*"Restoring the
past...Preserving the future"*



National Concrete Preservation, Inc. is a state certified general contractor. In addition to the full restoration of buildings, we also provide specialty contracting services. We are a turn-key operation for whatever needs to be built, repaired, modified, or strengthened.

Complete Balcony Restoration —

Coming in our next issue will be a feature on the complete restoration of concrete balconies in this south Florida high-rise. The project included removal of existing enclosures, railings and finishes as well as many of the slab sections. After restoration the completed project offered new slabs and glass railings that were designed to withstand the harsh exposure of south Florida weather for many decades to come. Look for this feature next issue...



Complete Balcony Restoration Including Glass Railings