

DANIEL P. GREENFIELD, P.E., LEED AP

Vice President



Summary

Daniel Greenfield joined Thornton Tomasetti in 1997. He is proficient in the design of steel, masonry, timber and cold-form metal framing. Daniel has extensive experience with renovation, rehabilitation, and adaptive reuse projects, including the investigation of existing structures, building façade and roof systems, waterproofing and the design and administration of repairs to deficient conditions. He has worked on various project types, including commercial, educational, institutional, industrial, residential buildings, and tenant fit-outs.

Areas of Technical Expertise

- Roofing and Below Grade Waterproofing
- Structural Engineering - Alterations and Rehabilitations
- Masonry Façade Restoration

Education

- B.S.C.E., 1997, University of Delaware

Registrations

- Licensed Professional Engineer in PA
- LEED AP

Select Project Experience

Commercial

Nestle Headquarters, Washington, DC. Engineering services for an 11-story tenant fit-out. Structural challenges/features included accommodating large new openings in the existing slab structure and two monumental staircases: a central oval spiral 9-story staircase and a central stringer 2-story switch back staircase.

JE Berkowitz, LP, Photovoltaic Roof Addition, Pedricktown, NJ. Analysis of existing roof framing to determine reserve capacity of framing to support a new field of solar panels. The project scope included assistance to the contractor in the placement of support legs for the solar panels to minimize stress on the existing roof.

1400/1401 Wilson Blvd., Plaza Repairs, Arlington, VA. Engineering services for repairs to the existing plaza level shared between two office buildings to mitigate water infiltration into finished office spaces below the plaza level. Scope included preparation of construction documents for the repairs, replacement of existing waterproofing and flashing at select locations of the plaza and construction administration services for the specified repairs.

1101 Wilson Blvd., Plaza Repairs, Arlington, VA. Waterproofing investigation, preparation of repair documents related to deficiencies in below-grade waterproofing for a garage roof located 10+ feet below the main entrance of the building, and construction administration services for completion of repairs.

Three Ballston Plaza Main Roof Replacement, Arlington VA. Engineering services related to the removal and replacement of the existing roof membrane, including preparation of construction documents for roof replacement and construction administration services.

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1501/1515 Plaza Repairs, Arlington, VA. Engineering services for repairs to the existing plaza level shared between two office buildings. The purpose of the repairs was to help mitigate water infiltration into finished office spaces below the plaza level. Scope included preparation of construction documents for the repairs and replacement of the existing waterproofing and flashing at select locations of the plaza to mitigate water infiltration within the finished spaces of the buildings, replacement of split slab expansion joint, and construction administration services for the specified repairs.

1101 Wilson Blvd., Roof Replacement, Arlington, VA. Engineering services for the replacement of an existing terrace inverted roof membrane assembly (IRMA) roof and modified bitumen. Scope included preparation of construction documents for roof replacement and construction administration services for the roof replacement.

1100 Wilson Blvd., Roof Terrace, Arlington, VA. Building envelope and waterproofing services for a new observation roof deck on the 32nd floor. Scope of work included ethylene propylene diene terpolymer (EPDM) roof on new penthouse and modifications to existing roof to install new roof deck.

Shirlington Tower Main Roof Replacement, Arlington VA. Engineering services related to the removal and replacement of the existing roof membrane, including preparation of construction documents for roof replacement and construction administration services.

Education

Lawrenceville School, Dining and Athletic Facility Renovation and Addition, Lawrenceville, NJ. Envelope consulting services, including evaluation of existing conditions, as well as design of new roofing and below grade waterproofing for a 350,000-square-foot renovation and addition to the college preparatory boarding school. The project includes a new swimming pool, ice arena, gymnasium, multipurpose rooms and dining facility.

Swarthmore College, Athletic Buildings Assessment, Swarthmore, PA. Condition assessment of building exterior walls and roofs, and building structure of seven buildings, including Lamb-Miller Field House, Tarble Pavilion, Ware Pool, Mullan Tennis Center, Matchbox Fitness Center, Delmuth Field House, and Clothier Field Grand Stands. The purpose of the envelope assessment was to evaluate the exterior walls and roofs and provide recommendations for repair or improvements to meet ASHRAE 90.1 energy code requirements. The structural assessment included visual inspection to identify any deficient conditions and provide repair recommendations.

University of Delaware, Harrington Hall Renovation, Newark, DE. Roofing design of five residence halls and the central common encompassing 78,000 square feet of replacement roof area as preventive maintenance.

Residential

ACTS Country House Roof Replacement, Wilmington, DE. Architectural services for the replacement of an existing ballasted EPDM roof. Scope included preparation of construction documents for roof replacement, bidding assistance and construction administration.

Sports and Entertainment

Eagles NovaCare Center, Roof Condition Assessment, Philadelphia, PA. Condition assessment of an existing roof. Scope of work included visual inspection of a 76,000-square-foot EPDM roof. Work included report summarizing our findings and recommendations.

Lincoln Financial Field Assessment, Philadelphia, PA. Annual condition assessment of an existing stadium, since 2008, including roofs, concourse framing, roof framing, precast seating, raker beams, concrete slabs, masonry walls, stairs, ramps, and catwalks.

Lincoln Financial Field, Moisture Infiltration, Philadelphia, PA. Engineering services to assist the construction manager in responding to ongoing claims regarding moisture intrusion issues throughout the stadium and cracked concrete slabs at plaza decks that required evaluation of installed drain assemblies.

Hospitality

Dennis Tower, Exterior Envelope Repairs, Atlantic City, NJ. Façade investigation, preparation of repair documents for all necessary repairs and construction administration services for completion of repair work for a hotel and casino.

Claridge Hotel and Casino, Façade and Roof Repairs, Atlantic City, NJ. Construction management, contract administration and owner's architect and engineer representative services for repairs and replacements of the exterior façade, coping and select roofs. The project scope also included the investigation of hidden conditions in conjunction with the general contractor. Services also included development of construction documents for competitive bidding, construction conformity site visits and general architecture and engineering consulting.

Caesar's Ocean Tower, Façade and Roof Replacement, Atlantic City, NJ. Engineering services for replacement of the exterior insulated finish system (EIFS) system and main roof. Scope included a condition assessment of the existing roof and exterior façade, preparation of construction documents and construction administration services for the specified repairs.

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Harrah Harbor Tower, Façade and Roof Repairs, Atlantic City, NJ. Engineering services for exterior façade repairs of exposed aggregate precast panels, EPDM roof replacement and replacement of deteriorated sealant joints between exterior panels and window surrounds. Scope included condition assessment of the façade, preparation of construction repair documents and construction administration services for the specified repairs.

Harrah's Resort, Emergency Roof Repairs, Atlantic City, NJ. Engineering services for emergency repairs due to CAT-90 Sandy. Included repairs and replacement of EPDM podium roof and theatre roof of approximately 65,000 square feet. Also included installation of fully adhered EPDM membrane and batten strips.

Caesar's Warehouse, Roof Investigation and Repair, Little Egg Harbor, NJ. Condition assessment of existing 120,000-square-foot standing seam metal roof and repair recommendations, which included new coating on metal seam roof and thermoplastic polyolefin (TPO) flashing at masonry fire walls.

Merriam Theatre, Building Envelope Condition Assessment, Philadelphia, PA. Condition assessment of exterior walls and roof. Included visual inspection of exterior masonry walls and various roofs, including EPDM, coal tar built-up roof and shingle roof, and a report summarizing findings and recommendations.

Caesar's Entertainment Atlantic City Tower Assessment, Atlantic City, NJ. Condition assessment of the exterior façade of hotel towers located at Bally's, Caesar's and Harrah's.

Parking

1400/1401 Wilson Blvd., Garage Repairs, Arlington, VA. Condition assessment, design repair and installation of a traffic-bearing waterproofing membrane for a four-level concrete pan-joint parking garage with two below-grade levels and an office building above.

1101 Wilson Blvd., Garage Repairs, Arlington, VA. Condition assessment, design, documentation and observation of repair services for a six-level below-grade concrete parking structure.

1000/1100 Wilson Blvd., Garage Repairs, Arlington, VA. Structural repair of a parking structure, including concrete repairs and the installation of a traffic-bearing waterproofing membrane throughout the entire garage.

1200 Wilson Blvd., Arlington, VA. Condition assessment of a three-level concrete flat-slab parking garage with two below-grade levels and 11-story office building above.

1701 N. Fort Myer Dr., Arlington, VA. Condition assessment, design, documentation and observation of repair services for a three-level concrete pan-joint parking garage with two below-grade levels and 11-story office building above.

Shirlington Gateway Garage Repairs, Alexandria, VA. Condition Assessment of the garage to identify conditions of deterioration and prioritize repairs to assist the Owner in developing an annual budget for capital improvements.

Sworn Testimony

Deposition, Liberty Mutual Fire Insurance (as subrogee of Dietz & Watson) v. Absolute Energized Solar Electric, Inc. Dispute related to fire that occurred on September 1, 2013 at Dietz & Watson facility in Delanco, NJ. December 12, 2017.

Litigation

Indiana Ins. Co. (as subrogee of JJR LLC) v. Rothwell Assoc. LLC v. Santana Home Improvements, et al. Engineering review and expert report in dispute regarding a roof collapse at pharmacy. Retained as expert to review project documents and opine on cause of collapse.

PLA v. Elron & Thompson, P.C., Quinn Constr., Inc., CTS Cement Mfg. Engineering review and expert report in dispute regarding excessive cracking in garage topping slab. Retained as expert to review project documents and provide opinion on alleged design omissions and construction errors that caused slab cracking.

CONTACT

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