



THA CONSULTING

New Brunswick Parking Authority

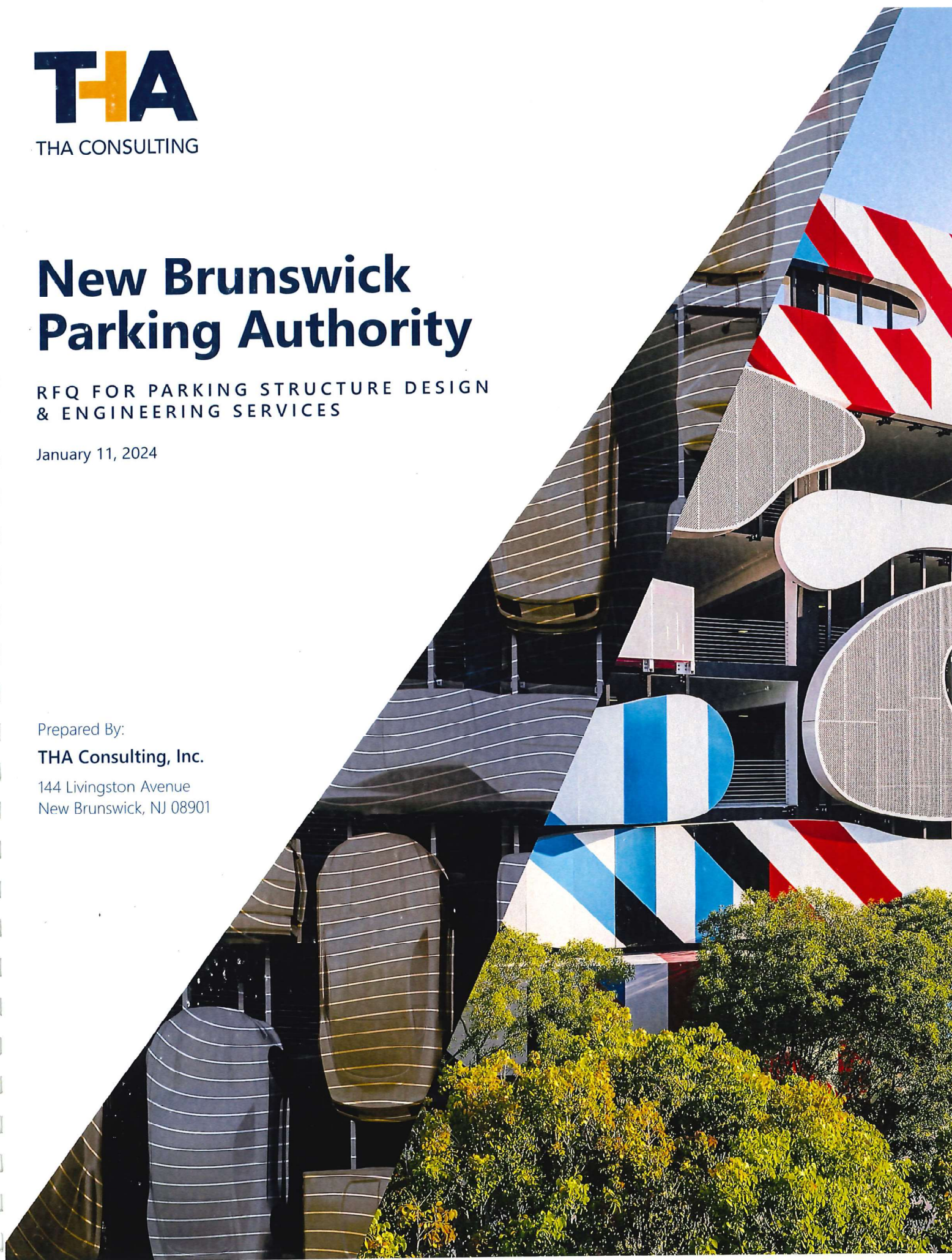
RFQ FOR PARKING STRUCTURE DESIGN
& ENGINEERING SERVICES

January 11, 2024

Prepared By:

THA Consulting, Inc.

144 Livingston Avenue
New Brunswick, NJ 08901



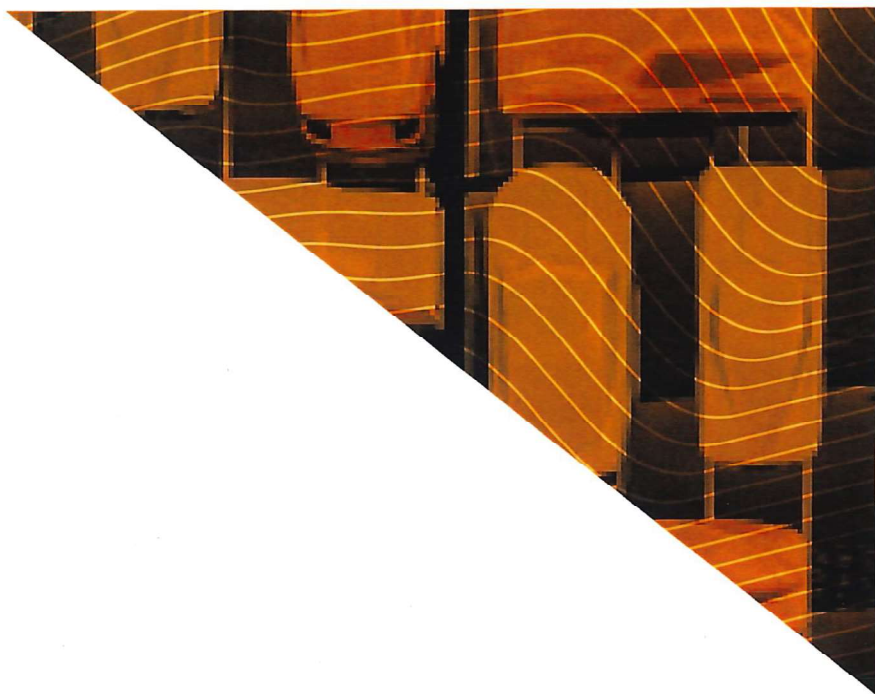


TABLE OF CONTENTS

SECTION 1	Cover Letter
SECTION 2	Firm Profile
SECTION 3	Administrative Information Requirements
SECTION 4	Professional Information Requirements
SECTION 5	Resumes
SECTION 6	Project Experience
SECTION 7	Attachments



SECTION **1**

Cover Letter



THA Consulting, Inc.

144 Livingston Avenue
New Brunswick, NJ 08901
(732) 253-0690

January 11, 2024

Mitch Karon
Executive Director
New Brunswick Parking Authority
106 Somerset St, Floor 6
New Brunswick, NJ 08901

Dear Mr. Karon:

THA Consulting, Inc. (THA) is pleased to provide the New Brunswick Parking Authority (NBPA) with our response to the **Request for Qualifications for the Provision of Parking Structure Design and Engineering Services**. As specialists in planning, design, construction, and renovation of parking structures, THA has completed close to 1,000 parking projects and 1,000,000 spaces. THA has an experienced team of engineers, designers and restoration specialists who have performed the full spectrum of parking facility design and restoration services. We have successfully provided these services for a variety of municipal, governmental, institutional, and private clients throughout the Northeast and presently provide on-call services to multiple cities and public agencies, including the Fort Lee Parking Authority, Village of Ridgewood, Camden Parking Authority, New Jersey Transit, City of West New York, City of Binghamton, and the Trenton Parking Authority. THA is also extremely familiar with the NBPA, having previously worked with the Authority on a variety of projects including on-call contracts, the Performing Arts Center Garage, the Morris Street Parking Garage, and the Plum Street Garage.

Since the inception of our firm, we have provided clients with the full spectrum of design, restoration, and garage maintenance services. In the last four years alone, we have completed more than 100 parking facility restoration projects. THA understands the importance and value of the NBPA's parking assets and how critical it is to maintain and enhance these facilities to extend their useful life, to ensure that they effectively support the NBPA's economic development, and that they serve as a pleasant gateway to New Brunswick's many destinations. We also clearly understand the challenges of parking facility design and restoration projects, and that their success hinges on the technical expertise of our team, the coordination of the project with the NBPA and the contractor, and our team's ability to respond and address issues quickly.

For this service, we have an outstanding team of highly experienced parking design, engineering, restoration specialists, and project managers to ensure that any future projects proceed efficiently, cost effectively. Our team's proactive communication approach will ensure that the project proceeds expeditiously, and that the NBPA and its stakeholders are informed at every step. Our core values include going the extra mile for our clients and making every effort to exceed expectations. We believe that our commitment to these values is confirmed in the amount of repeat design and on-call restoration work we perform for numerous municipal / public clients year after year.

We appreciate the opportunity to provide the New Brunswick Parking Authority with our proposal and we are excited at the prospect of working with you again. Please contact us should you need any additional information about the THA Team and our capabilities to serve the New Brunswick Parking Authority.

Sincerely,

Jim Zullo, PP, AICP, CAPP
President
(732) 253-0690 | jzullo@tha-consulting.com

SECTION 2

Firm Profile



THA CONSULTING, INC., M/W/DBE

MIAMI
ATLANTA
PHILADELPHIA
NEW BRUNSWICK

PARKING PLANNING & DESIGN

THA Consulting, Inc., understands the important role parking plays in development. THA is a multi-disciplined engineering, design, and mobility consulting firm specializing in the planning, design, operation, and restoration of parking and mixed-use facilities, as well as master planning for campuses, urban and high density areas, and transit related projects. Since our inception in 1994, we have completed close to 1,000 parking projects and almost 1,000,000 spaces. Our expertise has been cultivated by extensive experience with unique issues and requirements associated with parking facilities, including pedestrian connectivity, safety and security, and amenities. We provide exceptional service and strategic solutions for complex parking issues to a variety of clients.

Our approach to parking planning & design is to successfully integrate the parking facility with the overall project, campus, or downtown, thereby enhancing the pedestrian experience, user-comfort, and helping to create active and vibrant places. Our primary focus is to design efficient, user-friendly, and aesthetically enhanced parking facilities that serve as gateways to destinations and other development components. We think outside of the four walls of the garage to understand how the facility will integrate with other uses and how the use of the facility can be maximized to create efficiency and economy.

Our design and engineering experience has created value for our clients for the past 29 years through our considerable project experience and practical knowledge of these unique project types.

PROJECT AWARDS

Green Street Parking Garage, Newark, NJ
Award of Excellence
International Parking Institute, 2023

Guntzer Street Parking Garage, Fort Lee, NJ
Award of Merit
International Parking Institute, 2023

University of Kentucky Parking Garage, Lexington, KY
Award of Excellence
International Parking Institute, 2022

Incyte Corporation Parking Garage, Wilmington, DE
Mid-Rise Garage Category,
Eastern Pennsylvania and Delaware
Chapter of ACI, 2019

SERVICES

PLANNING FOR PARKING

- Master Planning
- Site Analysis
- Supply/Demand Analysis
- Feasibility Studies
- Shared Parking Analysis
- Due Diligence Reports
- Parking Consulting
- Financial Analysis

ENGINEERING & ARCHITECTURE

- Parking Structure Design
- Mixed-Use Structure Design
- Project Design Management
- Functional Design
- Facade & Aesthetic Design
- Structural Engineering
- Design Build Services
- Sustainable Design

ASSET MANAGEMENT

- Condition Appraisal
- Restoration Engineering
- Life Cycle Cost Analysis
- Operational Consulting
- Owner Representation
- Graphics & Wayfinding
- Maintenance Programs



SECTION 3

**Administrative Information
Requirements**



ADMINISTRATIVE INFORMATION REQUIREMENTS

1. Executive Summary

THA Consulting, Inc. (THA) understands that the New Brunswick Parking Authority (NBPA) has requested qualifications for the provision of Parking Structure Design & Engineering Services. Accordingly, we have provided detailed information about our firm, including both administrative and professional information. THA specializes in parking structure related services and is authorized in the State of New Jersey to provide the full scope of planning, engineering and design services as such. THA employs several New Jersey registered engineers and architects.

The THA team is a group of parking professionals specializing in an extensive range of parking needs, disciplines and specialties. This team is expertly equipped to work with the NBPA to provide high quality and cost-effective services. In addition, we believe that our previous experience and working relationship with the NBPA, coupled with our local experience, will help THA provide an unmatched level of service in terms of client satisfaction. Our submittal will provide you with a better understanding of our team's engineering experience on similar projects, and our proposed methodology for this contract.

We understand the NBPA's need to expand and maintain its infrastructure to meet current and anticipated parking demand. THA understands the motivation, experiences, and needs of the NBPA, and we will respond with professional client service, bar none.

THA has assembled an experienced team of design professionals, engineers, and parking professionals to serve the NBPA. The THA team brings the requisite experience and expertise to execute this project, including:

- ✓ **Meeting Project Requirements:** Our designers, architects, engineers, and project managers appreciate that the NBPA needs each project to proceed expeditiously; we will meet that challenge. The fact that the THA Team has the requisite experience on numerous similar projects facilitates responsiveness and quality-yielding coordination. The NBPA will benefit from the THA team's expert knowledge of parking facility design and engineering services.
- ✓ Superior client service is the focus of everything THA does. Anticipating client needs, and exceeding your expectations is the hallmark of THA service. We have historically recognized the NBPA as one of our valued clients and we will commit the necessary resources and expertise to meet your expectations.
- ✓ The NBPA is seeking a professional firm to provide Parking Structure Design and Engineering Services to support their endeavors. THA has assembled an expert team of planning, engineering, and design professionals to provide the NBPA with the services described in the RFQ.
- ✓ THA directs, and manages parking related projects. We dedicate ourselves to the NBPA from the project's development through completion, and beyond.

In summary, THA is committed to providing the NBPA with the highest level of parking structure design, restoration, and engineering services, and will always go the "extra mile" to ensure that we exceed your expectations.

2. Executed Letter of Qualification (Appendix A) – Please see attached.

3. The name, address and telephone number of the firm submitting the Qualification Statement pursuant to this RFQ is:

THA Consulting, Inc.

144 Livingston Ave, New Brunswick, NJ 08901

Phone: 732-816-4407

Email: jzullo@tha-consulting.com

Key Contact Person: James Zullo (PP, AICP, CAPP) Principal in Charge – President



4. THA Consulting, Inc. is a S-Corporation. Description of the business organization, ownership & organizational structure is detailed below and attached in Section 5 is our Company Organizational Chart.
 - a. Principal Information – Principals with ownership interest (or operational control) in THA Consulting, Inc. are as follows:
 - Janice Haahs, CFO/Executive Chairman
 - Todd Helmer, PE, SE, CEO
 - Noli Alarcon, PE, Vice President
 - Kevin Carrigan, PE, Principal
 - Jim Zullo, President

Mrs. Haahs, Mr. Helmer, and Mr. Carrigan are based out of THA's corporate headquarters:
470 Norristown Road, Suite 200, Blue Bell, PA 19422

Mr. Zullo is based out of THA's New Brunswick office:
144 Livingston Ave, New Brunswick, NJ 08901

Mr. Alarcon is based out of THA's Atlanta office:
410 Peachtree Parkway, Suite 4245, Cumming, GA 30041
 - b. THA Consulting is not a subsidiary of another firm.
 - c. THA Consulting is not a partnership, joint venture or similar organization.
5. Executed Letter of Intent (Appendix B) – Please see attached.
6. THA Consulting, Inc. (Formerly DBA Timothy Haahs & Associates, Inc.) has been in operation for almost 30 years. In early 2021 Timothy Haahs & Associates, Inc. rebranded as THA Consulting, Inc. (THA).
7. With THA Consulting's rebranding came new management. Our business has been under the current management for approximately 3 years.
8. THA Consulting, Inc. has complied with all applicable affirmative action (or similar) requirements with respect to its business activities and has provided evidence of compliance attached, stating as such.
9. There have been no judgments within the last three years in which we have been adjudicated liable for professional malpractice.
10. THA Consulting, Inc. has never been involved in any bankruptcy or re-organization proceedings.
11. THA Consulting, Inc. possesses the appropriate federal and state licenses to perform work. Please see evidence of this in Section 7 Attachments.

SECTION 4

**Professional Information
Requirements**



PROFESSIONAL INFORMATION REQUIREMENTS

A. OVERALL EXPERIENCE

1. DESCRIPTION AND SCOPE OF WORK BY RESPONDENT

THA Consulting, Inc. (THA) is a multi-disciplined engineering, design, and consulting firm specializing in the planning and design of parking and mixed-use facilities.

Since our inception, THA has completed over 1,000 parking projects. In addition, in the last five years alone we have completed more than 100 parking facility restoration projects. We provide exceptional service and practical solutions to complex parking issues for a variety of clients, including municipalities, universities, developers, hospitals, transit agencies and more. THA has successfully provided similar services for numerous municipalities and public agencies throughout New Jersey. **Detailed relevant project experience is illustrated in Section 6 Project Experience.** Highlighted below are some of our relevant project examples:

- Green Street Mixed-Use Garage (Newark, NJ)
- New Brunswick Parking Authority Advisory Services (New Brunswick, NJ)
- Hinchliffe Stadium Parking Garage (Paterson, NJ)
- Gateway Transit Village, New Brunswick Parking Authority (New Brunswick, NJ)
- Wellness Plaza Parking Garage, New Brunswick Parking Authority (New Brunswick, NJ)
- Golden Triangle Commuter Parking Garage (East Brunswick, NJ)
- Millburn Parking Garage, Township of Millburn (Millburn, NJ)
- Rahway Transportation Center Garage (Rahway, NJ)
- Village of Ridgewood Hudson Street Garage (Ridgewood, NJ)
- Fort Lee Parking Authority Guntzer Lot Garage (Fort Lee, NJ)
- Town of West New York Municipal Garage Restoration (West New York, NJ)
- Trenton Parking Authority Advisory Services (Trenton, NJ)
- Camden Parking Authority Parking Consulting Services (Camden, NJ)
- CRDA "The Wave" Mixed Use Parking Structure (Atlantic City, NJ)
- Camden Block N Site Feasibility Study (Camden, NJ)
- Camden County Improvement Authority Parking Structure (Camden, NJ)
- Hamilton Station Garage, New Jersey Transit (Hamilton, NJ)
- New Jersey Transit Route 17 Station Garage, New Jersey Transit (Ramsey, NJ)
- Pearl Street TOD Garage (Metuchen, NJ)

Our approach to parking planning and design is to integrate the parking solution with the pedestrian experience – creating active and vibrant "people places" contributing to a sense of place. Our parking planning approach extends far beyond the four walls of the structure, contemplating how users will access and depart the site, the paths and destinations of pedestrians, and how people will move throughout the area and interact with adjacent uses. Our experience demonstrates that THA has outstanding capabilities to serve the New Brunswick Parking Authority (NBPA). The goal of our firm is to provide creative yet practical, cost-effective design solutions that satisfy all project objectives in a timely and professional manner.

THA provides a wide array of parking consulting and parking structure planning and design services. THA can offer the following services for the NBPA:

PARKING CONSULTING SERVICES

- Functional Design Studies
- Parking Master Planning
- Site Analysis Studies
- Supply/Demand Analysis
- Feasibility Studies
- Shared Parking Analysis
- Parking Operations and Management Analysis
- Due Diligence Reports

PARKING STRUCTURE DESIGN SERVICES

- Project Design Management
- Functional Design
- Façade & Facility Aesthetic Design
- Structural Engineering
- Durability and Waterproofing Design
- Parking Equipment Specifications
- 3-D CAD Modeling/Revit/3-D Rendering
- Parking Graphics/Wayfinding Systems
- Life Cycle Cost Analysis
- Sustainable Design
- LEED Accredited Professionals
- Parksmart Certified Advisors

DESIGN / BUILD SERVICES

- Owner Representation
- Preparation of Scope Document Bid Packages
- Preliminary Design

RESTORATION ENGINEERING

- Condition Appraisals
- Construction Documentation
- Construction Administration Services
- Preparation of Maintenance Manuals



Parking Planning and Design

The functionality of the parking structure is equally critical to its success and acceptance by the community at large. The parking plan must have a high level of user comfort that best utilizes structural systems to reduce costs and provides a pleasant patron experience, which is critical to the acceptance and utilization of the facility. As designers and engineers specializing in parking garage design, THA will apply our extensive experience and creativity to specific garage design elements, which include but are not limited to:

- Optimizing space count on the site through precise functional design and planning.
- Maximizing efficiency through structural system selection.
- Applying design concepts to cost-effectively develop an attractive structure that complements the surrounding community.
- Locating and designing facility entrances and exits that work with the adjacent street network to ensure adequate queuing of buses and commuter vehicles and to minimize traffic congestion.

- Locating stair and elevator towers to provide convenient access and connectivity to local destinations and offer design elements that aesthetically enhance the facility.
- Incorporating both passive and active security measures to ensure patron comfort.
- Incorporating space for management, operational and maintenance needs.
- Provisions for parking access and revenue control equipment (PARCS).
- Developing a comprehensive signage, wayfinding, and branding package tailored to the garage's layout and location, to convey the vitality and vibrancy of the project and community.
- Integrating best practices in sustainable and durability design to ensure that the facility minimizes both its environmental impact and long-term maintenance costs.

A successful parking structure design will balance the functional needs of the users with the design and program requirements of the client. THA's expertise as parking planners and designers allows us to consider the user perspective from a variety of aspects:

- Comfortable parking geometrics
- An open column grid to enhance user comfort & security
- Abundant and uniform lighting
- Comfortable turning movements
- Higher floor to floor heights
- Comfortable ramp slopes
- Durability and long-term maintenance
- In short, a design that is simple to use & affordable to build!

Durability: Designed and Built to Last, Effective Asset Management

An attractive parking garage design that deteriorates prematurely and creates a maintenance burden is not acceptable! Parking structures are unique facilities, designed to withstand extremely harsh conditions including temperature extremes, water infiltration, thermal expansion and contraction, vehicular traffic, and particularly in the Northeast, de-icing salts. A parking structure that is not properly designed and maintained will experience detrimental consequences including structural deficiencies, premature concrete deterioration, and even safety hazards for users. Our knowledge in garage structural engineering and design enables our engineers to design the most durable garage and to assist the NBPA with parking structure maintenance programs into the future. Given our expertise, we can work with the NBPA facilities management department to prepare a maintenance checklist that outlines all necessary maintenance requirements on a daily, weekly, monthly and seasonal basis to ensure that the NBPA's investment in its parking infrastructure is properly maintained, future capital repairs are minimized, and the garage's service life is extended to the greatest extent possible.



Aesthetic Emphasis

THA understands the significance of the design expression of a parking facility, especially regarding the importance of complementing the surrounding development and urban realm. Designers at THA understand the balance between functional design and aesthetic form, and work to develop designs that are distinctive, cost effective and recognize the unique characteristics and structure of a parking facility. We understand the technical parameters of good parking garage design. These parameters include low maintenance, durability, and functional and efficient layouts.



A beautiful design that deteriorates prematurely creates a maintenance burden or does not work well functionally, is not acceptable. A successful project must address all the client's needs, and mesh with the visual fabric and identity of the surrounding community.

It is always our goal to design an attractive, aesthetically pleasing facility and landscape, as well as a low maintenance, safe, durable, and functional garage.

Focus on Sustainability

THA is dedicated to utilizing sustainable design practices in all our projects, including both design and restoration. Sustainable design strategies are extremely important considerations for all buildings, including parking facilities. With each of our projects, THA considers the environmental, economic, and social responsibilities to guide our clients through the complex issues involved in developing a sustainable project. We understand the importance of incorporating the latest sustainable strategies and technologies into the design of a parking facility. We seek to include the most appropriate and cost-effective sustainability features into the design and construction of a project.



Sustainable opportunities include:

- Solar Array
- Priority parking for low-emitting and fuel-efficient vehicles
- Charging stations for electric vehicles
- Energy efficient lighting and mechanical systems to reduce energy costs & environmental impacts
- Energy efficient glazing materials along any storefronts and stair towers
- Recycled, reused and regional materials in elevator / stair towers, when possible, during construction
- Water saving fixtures and rainwater recycling systems

Safety and Security

Recognizing that there is often an inherent concern regarding the safety of parking garages, our design team incorporates the highest level of security features into every aspect of parking planning and design. We incorporate both active and passive security features into our parking structure designs.

Passive security is based on Crime Prevention through Environmental Design (CPTED) concepts to improve safety and security through design features, including:

- Maximized visibility and openness
- Increased lighting levels
- Use of glass backed stair/elevator towers
- Increased floor to ceiling heights



Active security entails systems, technologies and accessories added to the garage to enhance patron security. These include:

- CCTV cameras
- Intercoms and panic buttons
- Blue light systems
- Security gates and grilles

Quality and Cost Control

All our designs and work emphasize quality control. For each project, the designated Principal-in-Charge is not only involved with the review of design, design / construction documents, and reports, but is also responsible for all peer reviews and quality control reviews of our work during each design phase. Our approach to both cost and schedule control on each project rests on our commitment to quality throughout the life of a project.



Our Quality Mission Statement:

We, at THA, focus our attention on the quality processes and procedures in every task that we do - from beginning to completion - and all over again. We concentrate our efforts on the client's satisfaction. To accomplish this, we strive to provide the best consultation, design, and professional services that conform to the client's specifications and code requirements. In our pursuit for opportunities for improvement and innovation, we continuously review our work and performance through proper training, standard guidelines, and checklists.

Effective cost and schedule control must start at the very beginning of each project. It cannot be achieved simply by peer review alone. At THA, quality is built in at every step. The project team will be actively engaged in project planning and budgeting; advisory and kickoff meetings; end-of-phase and other milestone reviews; 100% complete review; pre-bid and pre-construction meetings; jobsite meetings and field administration; and lessons learned meetings.

Quality and cost control are essential components to every project. Our firm has been successful in designing parking structures that come in at or below our client's budgets. We are able to accomplish this by designing efficient parking facilities, as well as incorporating a number of strategic cost control approaches, including:

- Utilization of our expertise as parking specialists
- Strict quality review process
- Order of magnitude estimates/budget confirmation (at each % completion)
- Internal peer reviews

2. NAME, ADDRESS AND CONTACT INFORMATION THREE REFERENCES

Willie Hunter
Executive Director
Camden Parking Authority
10 Delaware Ave
Camden, NJ 08103
(856) 655-1212
whunter@camdenparking.net

Rob Rooney
Chief Financial Officer/Parking Utility Director
Village of Ridgewood
131 N. Maple Avenue
Ridgewood, NJ 07450
(201) 670-5500
rgoonery@ridgewoodnj.net

Hernani Goncalves
Executive Director
Fort Lee Parking Authority
231 Main Street, 2nd Floor
Fort Lee, NJ
(201) 414-8327
hernanig@fortleepa.org

Steve Fernstrom
Executive Director
Bethlehem Parking Authority
85 W North Street
Bethlehem, PA 18018
(610) 442-3712
steve@bethpark.org

3. EXPLANATION OF PERCEIVED RELEVANCE OF THE EXPERIENCE TO THE RFQ.

As outlined herein, we are confident that our experience and expertise in parking structure design and engineering directly address the intent of the RFQ for Parking Structure Design and Engineering Services for the NBPA.

- B.** THA will directly provide parking design and engineering services as they relate to parking structures.
- C.** THA would recommend and retain a qualified experienced MEP engineer to provide mechanical, electrical, and plumbing engineering services.
- D.** THA typically employs non-union employees.

- E.** Please see resumes of THA's key employees attached in Section 5.
- F.** The New Brunswick Parking Authority seeks an experienced and qualified firm to provide Parking Structure Design and Engineering Services. THA understands the NBPA's potential need to expand and maintain its infrastructure to meet current and anticipated parking demand for residents, businesses, employees, commuters, and visitors, including but not limited to identifying the need for parking facilities. THA is excited to respond to this opportunity and understands the important role smart parking strategies play in supporting the economic vibrancy and development of municipal districts.

THA recognizes the importance of effective parking planning, policy, design, and management for the NBPA. We have the expertise and capability to assist the NBPA in the evaluation and development of parking strategies to achieve the desired parking, mobility, and access goals for future redevelopment projects. Our team has provided parking consulting to dozens of municipalities throughout New Jersey and the Northeast, including the NBPA, and we will use our practical knowledge and experience to evaluate and identify parking strategies and best practices to successfully support the NBPA's objectives.

- G.** THA Consulting, Inc. principals have no immediate relatives who are NBPA employees or elected officials.

SECTION 5

Resumes



YEARS OF EXPERIENCE

35 Years

PREVIOUS EMPLOYMENT

Senior Director, Real Estate,
New Jersey Transit

Executive Director,
New Brunswick Parking Authority

Vice President,
New Brunswick Development Corporation

EDUCATION

Tulane University, Bachelor of English and
Communications, 1983

New York University, Real Estate Institute,
Diploma in Real Estate, Investment Analysis
Concentration, 1989

Rutgers University, Master of City and
Regional Planning, 1996

PROFESSIONAL AFFILIATIONS

American Planning Association
International Parking & Mobility Institute
New Jersey Parking Institute
New York State Parking and Transportation
Association
Urban Land Institute

PUBLICATIONS

Parking and Transit Oriented Development
- Has COVID Cooled a Hot Market? IPMI
Magazine, 2021

Parking Planning for Transit Oriented
Development, Urban Land Institute
Magazine, 2011

JAMES M. ZULLO, AICP, PP, CAPP, LEED AP President

RELEVANT PROJECT EXPERIENCE

New Brunswick Parking Authority Advisory Services New Brunswick, NJ

Principal in Charge. THA provides the New Brunswick Parking Authority with professional parking consulting and advisory services on a regular basis. THA represents and advises the Authority throughout design and construction of various parking related projects. Services begin in the preliminary schematic design phase and continue through the end of construction, including 11th month walkthroughs. THA also provides comprehensive Owner's Representative services, to protect the interests of the Authority during each phase of the planning, design and construction process.

Wellness Plaza Parking Garage New Brunswick, NJ

Principal in Charge. For the 1200-space Wellness Plaza parking garage, THA provided parking garage design, parking planning, and consulting services. On the facility's ground level is the Fresh Grocer grocery store and the Robert Wood Johnson Fitness and Wellness Center is primarily found on the second floor. The project includes a significant tower element comprised of stairs, elevators, and a walkway connector to the New Brunswick Train Station northbound platform. The structure proved to be a design challenge as it included cast-in-place concrete helix ramp structure and aquatic facilities for the fitness center.

Town of Westfield On-Call Parking Consulting Services Westfield, NJ

Project Manager. THA was retained by the Town of Westfield to provide parking consulting services to assist the Town with the identification, evaluation, and development of parking planning, utilization, and development strategies to support redevelopment initiatives. THA evaluated the pre-COVID and existing parking utilization and redistributed the proposed parking supply to different user groups based on the projected parking demand. THA also proposed different strategies to reduce the parking demand to fit the Town's goal for the future development project.

Block N Parking Garage Camden, NJ

Principal in Charge. THA worked with the Camden Parking Authority to conduct a feasibility study, as well as design a new 720-space parking facility located on an existing parking lot located in Camden's city center. Available shell space also provided future opportunities for more offices, and small retail or food establishments.

Village of Ridgewood Hudson Street Garage Ridgewood, NJ

Principal in Charge. THA provided design-build parking planning and design services and construction for a 252-space parking facility to serve residents, visitors and commuters in Ridgewood. THA performed a conceptual design study to assess the existing municipal parking lot to determine the most efficient and cost-effective solution to the Village's parking needs.

Township of Millburn Parking Garage Millburn, NJ

Principal in Charge. For the Township of Millburn, THA designed a 375-space parking facility to serve residents, visitors and commuters. THA performed a conceptual design study of two sites to determine the best option for the proposed garage. THA designed the facility to complement the character of the surrounding area.

Greenwich Town Hall Garage Restoration Greenwich, CT

Principal in Charge. The Town of Greenwich, CT retained THA as an experienced restoration and parking consulting firm to prepare restoration documents and specifications to successfully undertake the parking facility program and upgrades. Additionally, THA was required to oversee the repair activities and ensure compliance with the repair documents. The focus of the project centered around shallow depth and full depth concrete repairs to the existing concrete deck wearing surfaces, overhead surfaces and beams, and support columns. The contract included post-tension tendon sheath and splice repairs to the pre-cast concrete deck slab units.



KEVIN W. CARRIGAN, PE, SE, QPSI

Vice President

RELEVANT EXPERIENCE

New Brunswick Parking Authority Advisory Services **New Brunswick, NJ**

Project Manager. THA provides the New Brunswick Parking Authority with professional parking consulting and advisory services on a regular basis. THA represents and advises the Authority throughout design and construction of various parking related projects. Services begin in the preliminary schematic design phase and continue through the end of construction, including 11th month walkthroughs. THA also provides comprehensive Owner's Representative services, to protect the interests of the Authority during each phase of the planning, design and construction process.

New Brunswick Performing Arts Center Garage **New Brunswick, NJ**

Project Manager. THA worked with the prime architect Elkus Manfredi and the New Brunswick Parking Authority to design a seven tier mixed-use parking facility that includes 344-parking spaces, electric vehicle charging stations, bike parking, loading docks, and ancillary space. This project included the development of two state-of-the-art theater spaces, dedicated rehearsal studios, academic and office space. The project also included 207 residential rental apartments and public parking.

Camden County Improvement Authority Parking Garage **Camden, NJ**

Project Engineer. For the Camden County Improvement Authority (CCIA), THA designed a 1604-space mixed-use parking structure, including approximately 9500 square feet of retail space. The façade features a combination of thin brick patterns, concrete finishes and reveals, creating an inviting atmosphere for the structure. The garage connects to Cooper University Hospital by an enclosed pedestrian walkway. It serves hospital employees and visitors, and is intended to act as a catalyst for revitalization in the community.

Princeton Downtown Redevelopment Project **Princeton, NJ**

Project Manager. For the Borough of Princeton, THA served as the Owner's Representative for the Princeton Downtown Redevelopment Project. The project included residential housing, retail, a parking garage, and a public park. THA reviewed the functional design layout, structural engineering, and parking access/revenue control specifications for the parking garage. This shared-use 500-space parking facility serves a public library, residential housing, local retail and restaurants. Housing fronts the parking structure facing the public park. Retail space is located on the ground level of the parking structure.

New Jersey Transit Ramsey Route 17 Station Garage **Ramsey, NJ**

Project Engineer. For New Jersey Transit, THA designed a parking structure to serve the Ramsey Route 17 Station. THA also designed train station vestibules and alcoves, as well as a pedestrian bridge that spans the train tracks and connects the station directly to the parking garage. The concrete walls on both the station and the stair towers of the garage, incorporate the stone aspect of these buildings. In addition, metal screening was also included on the garage to present a link between the concrete stone walls.

3rd & Ferry Streets Parking Garage Condition Appraisal **Easton, PA**

Project Manager. For the City of Easton, THA performed a condition appraisal and order of magnitude repair estimate of the 3rd and Ferry Streets Parking Structure. The structure consisted of cast-in-place concrete with structural steel, and houses the police station, as well as office space. THA reviewed the condition of the garage, and identified all repair work required. In addition, THA performed laboratory testing, including petrographic analysis and

Union Station Garage Restoration **Washington, DC**

Project Manager. For the Union Station Redevelopment Corporation (USRC), THA performed restoration services to restore the parking structure at Historic Union Station in Washington, DC. The structure was in need of a significant upgrade because of its age, and to accommodate an ambitious expansion program which was functionally dependent upon the existing structure. Analysis of the structure showed that without repairs and preventative maintenance, its service life would only be ten years. However, with the repairs and preventative maintenance recommended by THA, this was increased to 30 years.

YEARS OF EXPERIENCE

24 Years

EDUCATION

Pennsylvania State University
BS Architectural Engineering, 2000
MS Architectural Engineering, 2000

P.E. REGISTRATIONS

FL
DC
GA
MA
NJ
NY
PA

PROFESSIONAL AFFILIATIONS

American Concrete Institute
American Society of Civil Engineers
Delaware Valley Association of Structural Engineers

PUBLICATIONS

From Disaster to Opportunity – The Priceless Value of Proactive Parking Structure Maintenance, The Parking Professional, November 2009

Why Plan for Parking Structure Maintenance? The Parking Professional, November/December 2008

Integrating On-Street & Off-Street Revenue Control with Smart Technology, The Parking Professional, August 2004



YEARS OF EXPERIENCE

14 Years

EDUCATION

Lehigh University
Bachelor of Science in Civil Engineering
2009

PE REGISTRATIONS

Pennsylvania

PROFESSIONAL AFFILIATIONS

Delaware Valley Association of Structural Engineers (DVASE)

JORDAN RAPPIN, PE, PARKSMART

Director of Engineering

RELEVANT PROJECT EXPERIENCE

Green Street Mixed-Use Development Newark, NJ

Lead Engineer. For the Newark Parking Authority, *THA* is currently providing prime design services for a 645-space mixed-use parking facility that wraps around approximately 45,000 SF of office space. In addition, the parking facility will be connected to a liner building. Both the parking facility and linear building are being designed to provide spaces for the Newark Parking Authority Office, Newark Finance Department, Newark Municipal Court Office, and a Café. With the Prudential Center only two blocks away, the parking facility will also provide much needed event parking.

Camden Block N Mixed-Use Parking Garage Camden, NJ

Lead Engineer. For the Parking Authority of the City of Camden, *THA* is serving as the prime designer for the 6-level, 712-space mixed-use parking structure. Proposed key design elements include: bike storage area, ground level retail (including a proposed pizza shop), security office, service areas, loading dock, and utility rooms. The structure is also being designed to serve the residents, visitors, and employees of the surrounding neighborhood.

Rahway Transportation Center Restoration Rahway, NJ

Project Engineer. For the Rahway Parking Authority, *THA* is performing restoration engineering services for a 6-level precast concrete parking garage. The repair program primarily consists of minor concrete repairs, waterproofing repairs, and roof repairs.

Greenwich Town Hall Garage Restoration Greenwich, CT

Project Manager. The Town of Greenwich, CT retained *THA* as an experienced restoration and parking consulting firm to prepare restoration documents and specifications to successfully undertake the parking facility program and upgrades. Additionally, *THA* was required to oversee the repair activities and ensure compliance with the repair documents. The focus of the project centered around shallow depth and full depth concrete repairs to the existing concrete deck wearing surfaces, overhead surfaces and beams, and support columns. The contract included post-tension tendon sheath and splice repairs to the pre-cast concrete deck slab units.

Borough of State College Restoration State College, PA

Project Engineer. For the Borough of State College, *THA* performed condition appraisal and restoration services for the Beaver Avenue, Fraser Street, McAllister Street and Pugh Street parking structures in State College, PA. *THA* developed a preventative maintenance approach for the Borough to use as a guide for the continued maintenance of the parking facilities. *THA* identified strategies to extend the useful life of the structures. *THA* also designed a new Parking Access and Revenue Control System (PARCS) for the Beaver Avenue, Fraser Street and Pugh Street parking structures as well as the Schlow Library.

Northampton County Courthouse Restoration Easton, PA

Project Engineer. For Northampton County, *THA* provided structural restoration engineering services and a roof feasibility study for a two-level, 200-space standalone precast parking structure. The 20 year old garage had concrete slab delamination, leaking, and load-bearing beam connection issues. One of the key restoration solutions to address the leaking was to apply a traffic-deck coating on the top tier of the garage. Torsional issues in the load bearing spandrels were also resolved by installing steel plates and brackets. *THA* was further retained to provide restoration engineering documents and construction administration for the pedestrian bridge and sidewalk between the parking structure and the Courthouse. All in all, *THA* provided cost-effective restoration resolutions.