TimHaahs

Agenda

PROJECT:	**HUDSON STREET GARAGE**
DATE:	SEPTEMBER 31, 2019 AT 10 AM
LOCATION:	PROJECT SITE
PURPOSE:	**Pre-Concrete Conference: Foundations**
ATTENDEES:	Mike Tartaglia, Epic Jon Colburn, Epic Julian Salazar, Epic Jordan Rappin, TimHaahs Hyesun Lim, TimHaahs

☐ Required Attendees: Representatives from:

Owner
Architect
Engineer
General Contractor (superintendent)
Testing Agency
Ready-mix Supplier
Concrete Subcontractor
Concrete Mix Designer
Primary Admixture Supplier

☐ Parking Garages differ from typical buildings:

Exposed concrete
Harsh weather
Requires proper drainage

MIX DESIGN

☐ Concrete Strength (psi) / W/C Ratio / Slump (in.) / Air Entrainment (%) requirements - As shown on the Drawings:

C.I.P. Concrete:

Footings, grade beams - 4000 / 0.45 / 4 / no test
Foundation walls - 4000 / 0.45 / 4 / 5
Slabs-on-grade, toppings, washes, pourstrips - 5000 / 0.40 / 3 / 6-1/2
Other C.I.P. concrete - 4000 / 0.45 / 4 / 5

☐ Water/Cement Ratio shown is maximum allowed. **Addition of water at site is strictly prohibited**. Quantity of water withheld from trucks shall be documented on batch tickets. Testing Inspector shall monitor/verify water added on site matches quantity designated on batch tickets.

☐ Proportioning Design Mixes:

144 Livingston Ave. New Brunswick, NJ 08901 Phone [redacted] Fax [redacted]

Agenda

Methodology:	Trial batches of actual mix design or history records of 30 consecutive tests of identical mix including standard deviation and average strength calculations.
Schedule:	Submit at least 15 days prior to start of Concrete Work.
Requirements:	See Section 03300-2.5 of the Specifications.

☐ Submittals: Per Division 1 Specification Sections including the following:

Product data for proprietary materials and items
Shop drawings for pile locations, concrete reinforcement
Laboratory test reports
Material certificates in lieu of test reports

☐ Products and Admixtures - Per Specifications. Products not listed must be pre-approved prior to submittal.

☐ Fiber Reinforcement @ 1.5 lbs. per cu. yd. of concrete at slabs-on-grade.

☐ Fly ash will be allowed in footings, grade beams and foundations walls only. It is prohibited in precast concrete.

☐ Chloride Ion Certification: 0.06% by weight of cement for precast concrete and 0.15% by weight of cement for conventionally-reinforced concrete.

DELIVERY AND TESTING

☐ Maximum Mixing and Delivery Time for Ready-Mixed Concrete:

When air temperature is below 85 deg F:	90 minutes
Between 85 deg F and 90 deg F:	75 minutes
When air temperature is above 90 deg F:	60 minutes

Testing Agent shall have the authority to reject concrete based the above requirements.

☐ Concrete Placement: Per ACI 304, 305, 306.

Hot-Weather Placement (ACI 305):	When temperature exceeds 90 deg F.
Cold-Weather Placement (ACI 306):	When temperature falls below 40 deg F.

☐ Testing Agency: Agency must be CCRL certified, field inspectors must be ACI Level I certified and laboratory technicians must be Level II certified. All materials testing and inspection shall be done by the Testing Agency except for soil testing and inspection which shall be done by a Geotechnical Testing Agency.

Review means of test distribution and required parties to receive test reports.

☐ Concrete Testing Procedures: Test results to be reported in writing within 24 hours of testing.

Compatibility of Concrete Mix w/ Admixtures: Concrete contractor, ready mix supplier, concrete mix designer, and admixture supplier(s) shall coordinate that all concrete mix ingredients are compatible with each other without any adverse effects on the concrete strength, slump, air content, workability, consistency, texture, and finish.

Agenda

Slump (ASTM C 143) and Air Content (ASTM C 173): Test every truck @ point of placement. Additionally, air content of freshly placed concrete will be tested for each truck of concrete. At Engineer's option upon achieving satisfactory consistent test results, frequency of testing maybe reduced upon conferring with Testing Agency.

Compressive Strength Tests (ASTM C39): For **6"x12"** cylinders, obtain one set of 6 cylinders for each pour exceeding 5 cu. yds., plus one set for each 50 yds. poured per day. Test cylinders as follows: two @ 7 days, two @ 28 days, remainder in reserve. For **4"x8"** cylinders, obtain one set of 9 cylinders for each pour exceeding 5 cu. yds., plus one set for each 50 yds. poured per day. Test cylinders as follows: three @ 7 days, three @ 28 days, remainder in reserve. Strength is OK if average of any sets of 3 consecutive tests is greater than required and no one test is less than 500 psi of required strength.

Compression Test Specimens: Field-cured cylinders shall be maintained at the site and cured under conditions identical to the concrete-in-place represented by them. Mold and store cylinders for laboratory-cured test specimens under approved conditions per ASTM C 31.

- ☐ Concrete Curing: Protect concrete from premature drying and excessive cold or hot temperature. Apply curing method as soon as bleed water has disappeared and keep concrete moist for at least 7 days for C.I.P. topping, wash, and pourstrip; 3 days for others. Acceptable curing methods are by continuous wet-cure (preferred); use of moisture retaining cover; or under cold weather conditions, use of curing compound; or a combination thereof.

COORDINATION

- ☐ General contractor to coordinate with other trades actual locations of all embed plates, inserts, ledges/corbels and other anchors that are required to be installed in precast concrete per setting drawings, diagrams, instructions and direction by suppliers of items to be attached. C.I.P. wall layout and connection embedded hardware to supports precast members shall be constructed to meet the precast concrete erection tolerances (ACI 117, PCI MNL-127). Expansion joint blockouts shall be formed to meet the expansion joint details shown on the drawings. Power-propelled fasteners and drilled-in-anchors will not be allowed after precast concrete is installed without prior approval from the Engineer.

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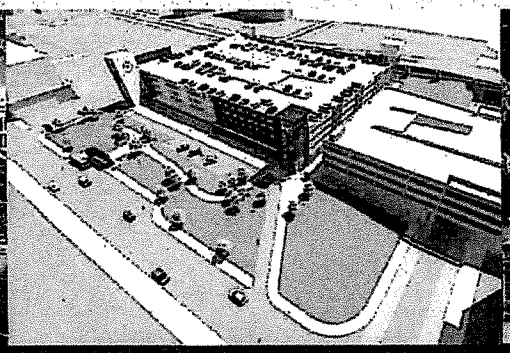
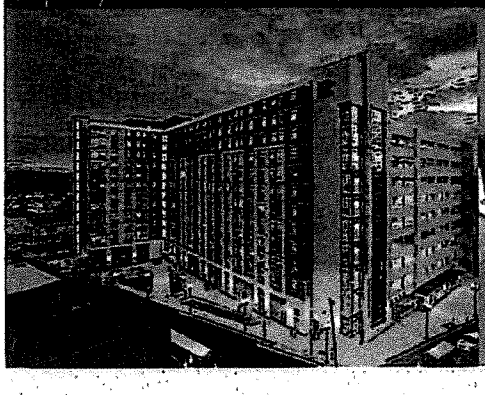


The Village of Ridgewood

A/E Services for the Design of a Multi-level Traditional Self-Parking Structure

August 27, 2015



TimHaahs

www.timhaahs.com
TIMOTHY HAAHS & ASSOCIATES, INC.
144 Livingston Avenue
New Brunswick, NJ 08901
[redacted]

August 27, 2015

Mr. Christopher J. Rutishauser, PE
Village Engineer
Village of Ridgewood
131 North Maple Avenue
Ridgewood, NJ 07450

RE: A/E Services for the Design of a Multi-level Traditional Self-Parking Structure Ridgewood, NJ

Dear Mr. Rutishauser:

Timothy Haahs & Associates, Inc. (TimHaahs) is pleased to provide you with our response to your RFP for architectural and engineering services related to the construction of a multi-level, traditional, self-parking structure located at the comer of Hudson Street and South Broad Street, in the Village of Ridgewood, NJ.

TimHaahs understands the important role parking plays in development. A multi-disciplined engineering and architectural design firm, TimHaahs specializes in planning – master planning for campuses, urban and high density areas, and transit-related projects – and provides design services for parking structures. TimHaahs' engineers, designers, planners, and parking specialists focus on parking solutions, bringing a unique perspective to our clients in private corporations, real estate, education, healthcare, government, and transit.

We understand that the Village of Ridgewood (Village) seeks to retain an experienced and qualified parking design firm to provide services for a traditional, multi-level, self-parking garage. Our firm has outstanding capabilities and a proven methodology and approach to serve the Village. We seek not merely to meet the Village's requirements and expectations, but to exceed them.

We understand that this design project is extremely important to the future needs of the Village. With that said, it is extremely important that this project be delivered in the most efficient and cost-effective manner possible. We have assembled a team of experienced parking garage design specialists to provide you with the highest quality of service for this project. Our team includes:

- Todd Helmer, PE – Vice President / Principal-in-Charge (EOR)
- Timothy Haahs, PE, AIA – President / Advisory Principal
- Chris Gray, PE – Director of Operations / Project Manager
- Kevin Carrigan, PE – Director of Engineering / Quality Control
- Mike App, AIA – Director of Architecture / Design Advisement
- Jon Shisler – Lead / Project Designer
- Paul Yantosh, PE – Project Engineer

TimHaahs has provided exceptional service and innovative solutions, ranging from parking consulting to **full architectural design**. Some of these projects include:

- Township of Millburn Parking Garage, Millburn, NJ
- New Jersey Transit Hamilton Station Garage, Hamilton, NJ
- New Jersey Transit Ramsey Route 17 Station Garage, Ramsey, NJ
- Rahway Transportation Center, Rahway, NJ
- Princeton Downtown Redevelopment, Princeton, NJ
- Somerville Municipal Parking Garage Design, Somerville, NJ
- Borough of Metuchen Downtown Parking Assessment, Metuchen, NJ

TimHaahs has had a strong working relationship with both of these firms on many projects in New Jersey. TimHaahs will work with AKF Group, LLC (AKF) and Maser Consulting (Maser) on this project. AKF is a full service MEP engineering firm, and they will assist in providing mechanical, electrical, plumbing, and fire protection services. Maser Consulting is an engineering firm, and they will assist in providing civil/site engineering services.

As requested in the RFP, we have provided information about our experience, qualifications, key personnel, detailed scope of services, and cost proposal. We appreciate the opportunity to provide you with our proposal and we look forward to working with you in the near future. Please feel free to contact me with any additional questions you may have.

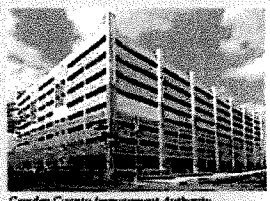
Sincerely,

Todd C. Helmer

Todd Helmer, PE
Vice President

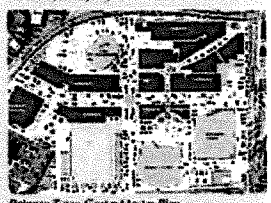
Timothy Haahs & Associates, Inc.

PARKING PLANNING & DESIGN



Camden County Improvement Authority Parking Garage, Camden, New Jersey

Princeton Downtown Redevelopment Project Princeton, New Jersey



Rahway Town Center Master Plan, Rahway, New Jersey

Timothy Haahs & Associates, Inc. (TimHaahs) understands the important role parking plays in development. A multi-disciplined engineering and architectural firm, TimHaahs specializes in planning – master planning for campuses, urban and high density areas, and transit related projects – and providing design services for parking and mixed-use buildings. TimHaahs' engineers, architects, planners, and parking specialists focus on parking solutions, bringing a unique perspective to our clients in private corporations, real estate, education, healthcare, government, and transit.

Our approach to master planning high density and urban areas is to integrate the parking solution with the pedestrian experience – creating active and vibrant "people places". For campuses, our primary focus is to create a sense of place and identity, built on shared gathering space. For transit related projects we seek to maximize the shared use of parking to create efficiency and economy. New Jersey Future recently recognized our master plan for Rahway Town Center in Rahway, New Jersey with a "Smart Growth Award" for excellence in planning town center revitalization.

Our architectural and engineering design expertise rests in our ability to plan and design structures that contain a significant parking component. This specialization creates value for our clients through our considerable project experience and practical knowledge of this unique project type.

Morris Street Parking Structure, New Brunswick, New Jersey

"The Wave" Mixed-Use Parking Structure, Atlantic City, New Jersey

UMDNJ Norfolk Expansion/Student Housing, Newark, New Jersey

New Jersey Transit Route 17 Station Ramsey, New Jersey

PLANNING FOR PARKING

- Campus and Downtown 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
- Architectural Design
- Structural Engineering
- Design Build Services
- Sustainable Design

ASSET MANAGEMENT

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

Philadelphia

Miami

Atlanta

New Brunswick

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TimHaahs

PROJECT AWARDS

"The Wave" Mixed-Use Parking Structure, Atlantic City, NJ
Innovative Facility of the Year, National Parking Association, 2012
Award of Excellence for New Design More than 1000 spaces, Pennsylvania Parking Association, 2012
Gold Award for Most Unique Mixed-Use Retail, Mid Atlantic Real Estate Journal, 2012

Gateway Transit Village, New Brunswick, NJ
NJ Future Smart Growth Awards, Transit-Oriented Development Partnership, 2012

Towson Town Center Garage Expansion, Towson, MD
Award of Excellence in Architectural Achievement, International Parking Institute, 2010

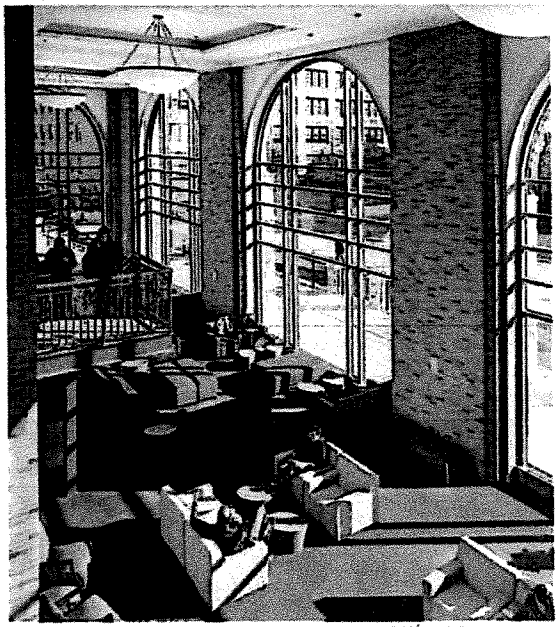
Tampa Port Authority Channelside Garage Expansion, Tampa, FL
International Parking Award of Merit, International Parking Institute, 2011
AIA Tampa Bay Design Awards, Merit Award, 2009

Philadelphia International Airport Enhancements, Philadelphia, PA
International Parking Award of Merit, 2009 Category IV, International Parking Institute

Rahway Town Center, Rahway, NJ
NJ Future Smart Growth Awards, 2008 Town Center Revitalization Plan

FIRM OVERVIEW

AKF



AKF is an award winning global engineering firm specializing in mechanical and electrical engineering for the built environment. We have built our reputation on the fundamental principles of excellence in engineering and client-first service. We have completed successful projects worldwide and continue to focus on client needs and innovative solutions.

Established in 1989, our firm now has over 400 employees and a leadership of 28 partners, with eight offices in the United States and two in Mexico. The practice originated with the traditional engineering services in HVAC, electrical, plumbing and fire protection and has broadened to include expertise in special inspections, code consulting, lighting design, building automation, and our specialty LEED consultancy team, In Posse. AKF Technologies specializes in Information Technology, Telecommunications, Audio Visual and Electronic Security systems planning, design and implementation management.

AKF also established two very hands-on teams to assist our clients with project quality assurance systems start-up and trouble shooting. AKF Commissioning has created the planning, electronic operating platform and procedures to spearhead the start-up, acceptance testing and maintenance procedures for the building equipment and systems. AKF Analysis and Testing specializes in vibration monitoring and analysis and critical speed testing. Over the past 24 years, our highly experienced engineers and analysts have focused on new ways to meet energy management challenges and optimize operational costs.

We continue to encourage our employees to become licensed Professional Engineers and LEED APs and approximately half of our firm has successfully done so. Our firm continues to participate in programs that focus on being "good stewards of the planet", charities, and mentoring programs.

Corporate / Cultural / Healthcare
Higher Education / K-12 Education / Residential
Retail & Hospitality / Science & Technology

Engineering / Analysis & Testing / Building Management Systems
Central Utilities / Code Consulting / Commissioning
Critical Systems / Energy & Sustainability / Fire & Life Safety
IT/AV/Security / Lighting Design / Special Inspections

CORE DISCIPLINES

Bridge Engineering
Civil/Site Engineering
Construction Inspection & Administration
Construction Quality Control Services
Cultural Resource Services
Dam Engineering
Ecological Services
Energy Services
Environmental Services
Geotechnical Engineering
GIS/Asset Management Services
Grants & Funding Services
Hydrogeologic Services
Landscape Architecture Services
Municipal Services
Planning Services
Recreational/Sports Services
Stormwater Management Services
Structural Engineering
Survey/Geospatial Services
Telecommunication Services
Transportation/Traffic Engineering
Waterfront Engineering
Water/Wastewater Engineering

Office Locations

New Jersey
Headquarters: Red Bank
Clinton I Hamilton I Mt. Laurel I Marmora
Mt. Arlington

New York
Chestnut Ridge I Newburgh I Albany
Hawthorne

Pennsylvania
Allentown I Exton I Philadelphia

Virginia
Sterling I Norfolk

Maryland
Columbia

Florida
Tampa

New Mexico
Albuquerque

Maser Consulting P.A. is a privately owned, multi-disciplined, engineering firm with a unique balance of public and private sector experience. Headquartered in Red Bank, NJ, the firm was established in 1984 by Richard M. Maser, PE, PP, CME, Chief Executive Officer and President. Over its history, Maser Consulting has consistently been recognized nationally by Engineering News Record as one of its *Top 500 Design Firms* and ranked on *The Zweig Group Hot Firm List* of fastest growing companies.

Maser Consulting has 18 offices and employs over 500 professionals nationwide that include licensed engineers, planners, surveyors, landscape architects, and environmental scientists. Our dedicated specialists pride themselves in providing the most comprehensive services while taking full advantage of a wide range of in-house services. We employ the most technologically advanced tools and remain committed to facilitating new innovations and strategies to meet an ever-changing environment.

Our team of experts is committed to providing the highest standards of customer service and are driven by our adopted Core Values:

- Responsiveness
- Customer Service
- Quality
- Accountability
- Integrity
- Safety

Maser Consulting's comprehensive services and proven experience combine to provide sound project management practices that are paramount to the successful completion of your project!

PROJECT UNDERSTANDING

As architects and engineers specializing in parking, TimHaahs has completed over 750 parking projects and 500,000 spaces in the past 21 years. We have provided exceptional service and practical solutions for numerous municipal and governmental clients, and we look forward to bringing this expertise to the Village. At TimHaahs we pride ourselves on identifying creative, functional, and cost-effective parking design solutions. We understand the special design requirements and practical challenges for the design and development of parking structures.

TimHaahs will work with the Village to determine the most appropriate design for the proposed multi-level traditional self-parking structure on the Hudson Street Parking Lot, aka Lots 12 and 13 of Block 3809 of the Village. TimHaahs will ensure that our Schematic Design process thoroughly evaluates and captures the opportunities and design strategies to develop a parking facility project that fuels the continuation of development and growth in the Village.

The overall goal of the project is to develop a parking structure that will serve patrons of the Central Business District (CBD) and provide additional commuter parking since the Village Train Station is currently the busiest on New Jersey Transit's Bergen and Main Line.

We have based our proposal on the following assumptions:

- TimHaahs will serve as the Prime Designer for the parking structure, providing day to day design project leadership, architectural design/documentation, structural engineering, parking planning/design, civil/site, MEP, and traffic. TimHaahs will serve as Engineer of Record for the structure. AKF Group will serve as the MEP engineer and Maser Consulting will serve as the civil/site/traffic engineer.

- The parking structure design will have:

    - 370 parking spaces to serve patrons (for a gain of approximately 300 spaces)
    - One (1) main stair/elevator
    - Secondary stair for code required egress

- The parking structure shall be considered open per code (not requiring mechanical ventilation or an automatic sprinkler system).

- The architectural design will be enhanced and include façade lighting to improve the perception and safety at night. Aesthetics are very important to the success of this project.

- The interior of the stair/elevator lobbies shall be aesthetically upgraded to enhance the user experience.

Design Approach

PROJECT APPROACH

TimHaahs understands that the proper integration of this parking facility is extremely important to the Village of Ridgewood (Village). We understand that the proposed parking garage is to accommodate 300+ additional parking spaces. TimHaahs has significant experience providing parking planning and design for transit neighborhoods. Our experience includes the Township of Millburn Parking Garage, Pearl Street Parking Garage, New Jersey Transit Hamilton Station Garage, New Jersey Transit MetroPark Station, and New Jersey Transit Ramsey Route 17 Station Garage.

For the Township of Millburn, TimHaahs designed a 375-space parking facility to serve residents, visitors and commuters. TimHaahs performed a conceptual design study of two sites to determine the best option for the proposed garage.

We understand that the design of this parking facility must be aesthetically pleasing and should include bid specifications for the construction of a traditional multi-level self-parking structure on the Hudson Street Parking Lot, Lots 12 and 13, Block 3809, at the corner of Hudson Street and South Broad Street, in the Village of Ridgewood, New Jersey. We understand that the Village is seeking to increase its supply of parking for patrons of the Central Business District (CBD) and provide additional commuter parking because the Village of Ridgewood Train Station is currently the busiest on New Jersey Transit's Bergen and Main Line.

We will provide parking design and planning strategies to meet the specific goals of the project. Our team will address important issues such as appropriately cladding the façade to fit within the context of the area, user comfort, security, signage and wayfinding, pricing strategies, and pedestrian safety.

Project Success Factors

TimHaahs understands the special design and functional challenges that parking facilities present in transit neighborhoods. As parking specialists with a focus on architecture, TimHaahs understands how to integrate parking successfully into these environments, focusing on the need to accommodate growth, while providing for the needs of all types of garage patrons. At the forefront of the Village's needs is assuring the facility compliments the scale of adjacencies and utilizes appropriate materials to provide an aesthetically pleasing structure.

TimHaahs provided parking planning and design services for a 375-space parking facility to serve the Township of Millburn, NJ.

Parking Planning and Design

The function of this parking structure is critical to its success. TimHaahs understands how to develop an efficient functional layout that best utilizes structural systems to reduce costs while providing a pleasant patron experience.

Design Approach

As architects and engineers specializing in parking garage design, we will apply our extensive experience to a number of specific garage design elements, which include but are not limited to:

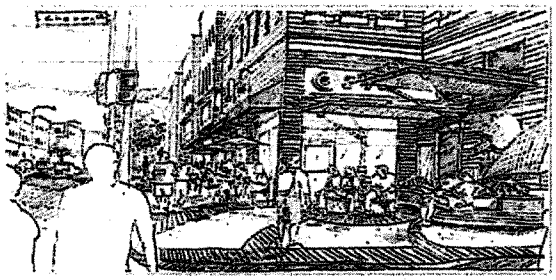
- Optimizing space count on site footprint through accurate functional design and planning
- Maximizing efficiency through structural system selection
- Architectural concepts to cost-effectively develop attractive structures that blend into the context of the surrounding area
- Planning and design of entrances and exits to the facility, as well as related traffic improvements for appropriate queuing of vehicles
- Placement of new utilities and coordination for tie-in to existing utilities
- Placement of elevator and stair towers
- Design for passive and active security
- Storage for operations and maintenance needs
- Provisions for future parking access and revenue control equipment (PARCs)
- Comprehensive signage and wayfinding package tailored to the garage's unique layout and location
- Best practices in sustainable design.

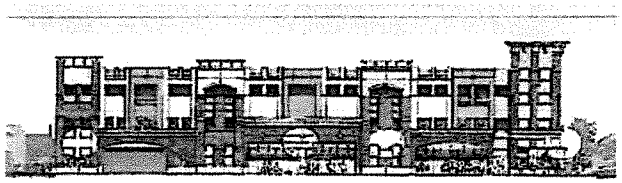
Architectural Emphasis

Architectural design and aesthetics are key to the success of this project. The design must fit well into the existing fabric and complement the adjacencies.

Architects at TimHaahs understand the balance between functional design and the aesthetic form that it shall represent. A parking structure shall be an attractive addition and incorporate the quality of details that the Village expects.

The team will generate architectural concepts that will marry to the proposed functional design. We will develop loose hand sketch versions, and then based on the review/approval, move into the final recommendations.





TimHaahs served as the prime design firm for the Norristown parking structure. The structure is essential to the revitalization of Main Street in Norristown, and will serve as a "gateway" to the downtown district. The parking facility fronts historic Main Street, and the design is contextual and responsive to the historic nature of the downtown.

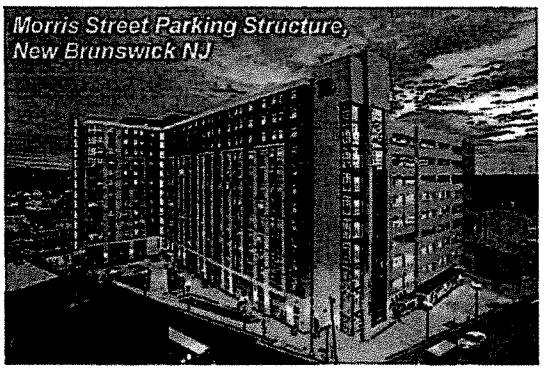
Design Approach

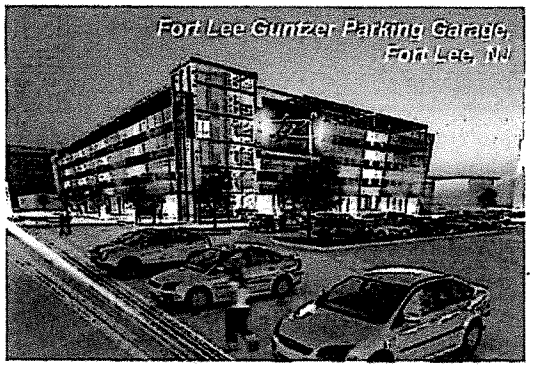
Not only will the exterior be of focus, but equal weight will be given to the interior aesthetic/upgrades. In addition, we are well versed in preparing for and presenting to Historic Review Boards.

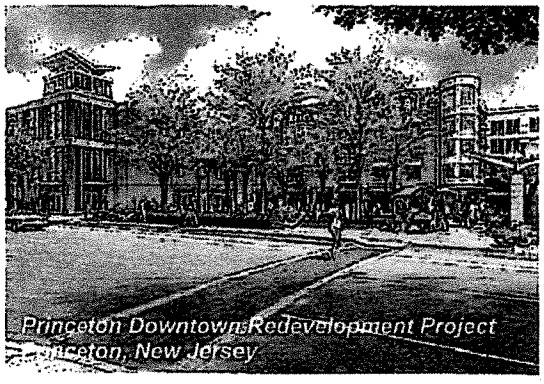
Often the correct solution is to compliment and blend into the architecture of the surrounding buildings, meshing with the visual fabric and identity of the surrounding community. We recognize that our projects are the first exposure that a visitor has to an area, and therefore are the "front door" for a visitor's experience. TimHaahs strives to design architecturally pleasing projects, which create destination places that enhance the visitor experience.

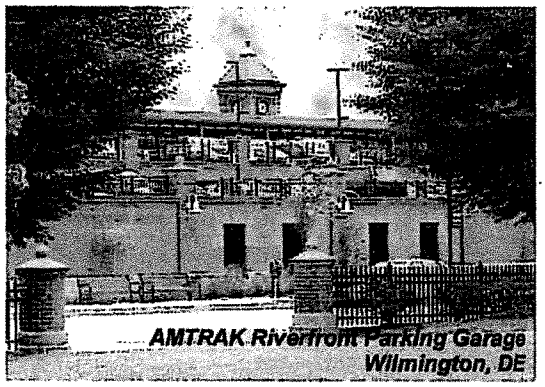
It is our intention to provide an attractive, aesthetically pleasing facility and landscape, as well as a low maintenance, safe, durable and functional garage that will be sensitive to the architecture in the Village.

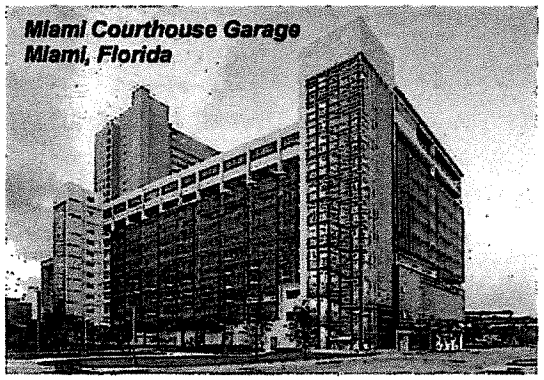
The following are some examples of our architectural projects from New Jersey to Florida.

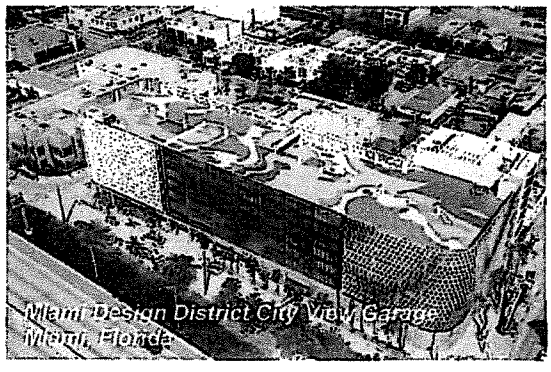

Morris Street Parking Structure,
New Brunswick NJ


Fort Lee Guntzer Parking Garage,
Fort Lee, NJ


Princeton Downtown Redevelopment Project
Princeton, New Jersey


AMTRAK Riverfront Parking Garage
Wilmington, DE


Miami Courthouse Garage
Miami, Florida


Miami Design District City View Garage
Miami, Florida

TimHaahs

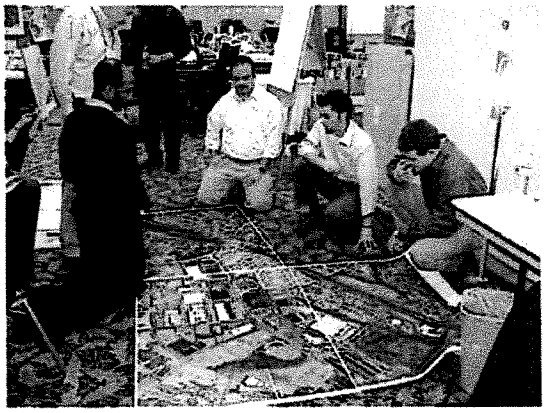
Design Approach

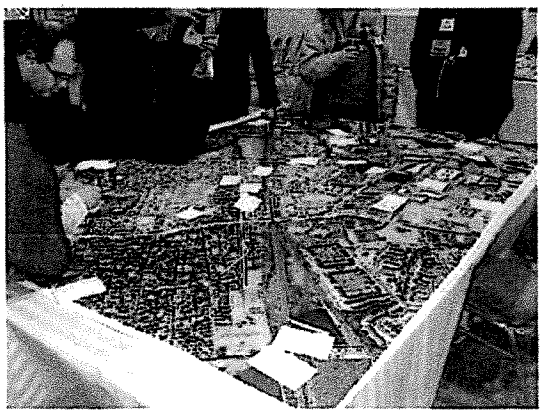
Public Interaction – Village Reviews

TimHaahs expects to have some level of interaction with the Village. This section represents our level of experience with workshops, charrettes, etc.

Community involvement will be an extremely important element throughout the course of this project. A number of issues will be assessed regarding current and future parking issues throughout the downtown region, as well as associated impacts to members of the community.

Obtaining and recognizing the concerns and ideas presented by employees and residents of the Village will be extremely important and valuable to consider for this study. TimHaahs has significant experience facilitating community activities during our parking study projects, including workshops, charrettes, and public meetings. These events result in obtaining valuable information to use as tools for developing strategies for these projects.





Safety and Security

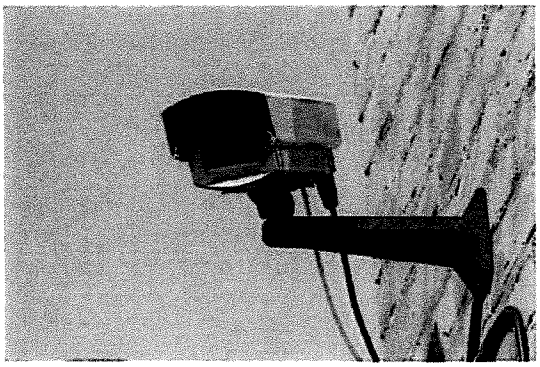
Safety is a major concern in all areas today. Often, parking structures are places where people are walking alone at night or in the early morning hours. Therefore it is of critical importance to incorporate the highest level of security features into every aspect of parking planning and design. We incorporate a number of active and passive security features into our parking structure designs. The following are some of the most common safety strategies, which we will discuss and consider with the client and the project team.

Passive security considerations are those integrated into the design of parking structures to maximize safety and security, including:

- Maximize visibility and openness
- Increased lighting levels
- Glass backed stair/elevator towers
- Move ramps to a remote location from the pedestrian destination to facilitate increased visibility
- Floor to ceiling heights
- Minimize placement of interior walls
- Access control
- Safe and inviting appearance

Design Approach

Active security entails systems and accessories added to the garage once constructed. These include:



- Monitored cameras (CCTV cameras, High definition cameras)
- Intercoms and panic buttons
- Security guard patrols
- Blue light system
- Public safety escort services
- Security gates
- Effective signage

Security through Generating Activity

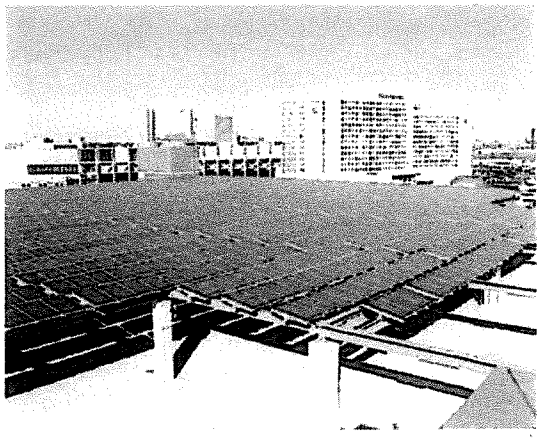
One of the most successful strategies for implementing a high level of safety in and around the parking structure is to locate the facility in an active environment, or integrate opportunities for increased activity within the structure. When parking is located in a secluded area, it creates an increased feeling of vulnerability. Integrating more active areas in and around the structure creates a more secure feeling for users, as well as reduces the opportunities for crime.

- Incorporating people places, such as attractive lobbies / stair towers
- Promoting a clean, pedestrian-friendly environment

Focus on Sustainability

TimHaahs is dedicated to utilizing sustainable design practices in all of our projects, including both design and restoration. Sustainable design ideas and strategies are extremely important considerations in the design of all buildings, including parking facilities. With each of our projects, TimHaahs 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 this parking facility. We will work with the client and the project team to identify the most appropriate and cost-effective sustainability features into the design and construction of this project. We have already identified a number of possible sustainability opportunities for this project to both limit the impact of the parking facility on the environment, while also helping to reduce costs with efficient technologies. Some of these opportunities include:



- Priority parking for low-emitting and fuel-efficient vehicles
- Charging stations for electric vehicles
- Energy efficient lighting and mechanical systems to reduce energy costs and environmental impacts
- Photocell receptors, timers and computerized controllers and/or dimmers, where possible, to reduce energy demands
- Energy efficient glazing materials along the storefronts

Design Approach

- Recycled, reused and regional materials, when possible, during construction
- Water saving fixtures and rainwater recycling systems

Another opportunity available for this project is the Green Parking Council (GPC) Green Garage Certification program. The Green Garage Certification program provides an industry and parking-specific standard that can be applied to both new and existing parking garages. This tool serves as another resource to take the best practices of the Department of Energy (DOE), Environmental Protection Agency (EPA), Leadership in Energy and Environmental Design (LEED), and other systems and apply them to make a direct impact on the long term sustainability of parking. The GPC rating system incorporates many of the same principles as other frameworks and rating systems, but also features specific and innovative measures when applied to parking.

TimHaahs' staff played a pivotal role in the development of the Green Garage Certification Program, leading not only the development of the prerequisites and credits, the writing of the application criteria, the implementation of the public BETA process, and the review and release of the final Green Garage Certification process.

Just as our staff provides LEED consulting services, we also provide consulting services guiding our clients through the planning, design, and certification of garages under the GPC rating system.

Durability: Designed and Built to Last, Effective Asset Management

Parking structures are unique facilities, designed to withstand extremely harsh conditions including weather extremes, water infiltration, thermal expansion and contraction, vehicular traffic, and particularly in the northeast, de-icing salts and snow removal strategies. A parking structure that is not properly maintained will experience detrimental consequences including structural deficiencies, premature concrete deterioration, and even safety hazards for users.

The service life of a parking structure is measured by an engineer's expertise in understanding concrete durability, and the design of systems, such as precast concrete and cast-in-place post-tensioned concrete, that are used in building parking structures.

Understanding life-cycle costs enables our engineers to assist owners with parking structure maintenance programs. Extensive experience with parking facilities for healthcare clients, municipalities, downtown districts, universities, transit agencies, and the like, is a key benefit to the Village of Ridgewood as our team progresses through the design process.

We understand these important issues, and will design the proposed parking facility to include the most effective features to maintaining the quality and stability of the parking facility, keeping in mind the materials and equipment to which it will be exposed.

TimHaahs served as parking consultant/ superstructure engineer for Philadelphia's 30th Street Station Intermodal Gateway parking structure. The station handles over four million patrons annually for both local and long-distance rail travel, the second busiest of the AMTRAK system.

SCOPE OF SERVICES

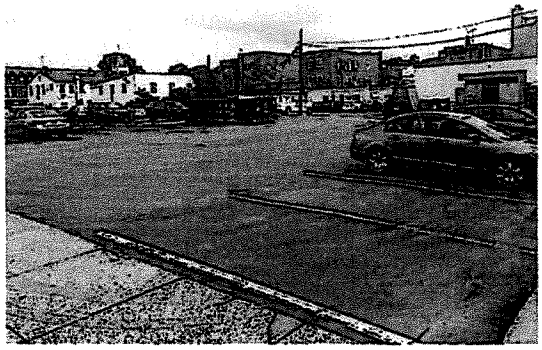
(Note: Our team will be complying to the Section 4.0 - Scope of Work, on Page 3 of the RFP, with the qualifications/exceptions noted at the end of this section. The following is our proposed scope of service.

Schematic Design

1. Meet with the team to review the expectations on behalf of the Village of Ridgewood (Village) and set the vision and direction of the project.
2. Visit the proposed site to understand all site constraints, existing conditions, and obtain all existing information, including geotechnical information from adjacent buildings, if available.
3. Review prior reports/documentation by other consultants.
4. Prepare a design project schedule as it relates to the Village's requirements as well as the construction marketplace.
5. Develop three (3) conceptual designs, one of which includes a cantilever design over the public right-of-way of Hudson Street. Design considerations include, but are not limited to:
   - Review and confirm the size of the parking structure and impacts to the adjacent user groups, parking, etc.
   - Review pedestrian and vehicular ingress/egress locations and assure no conflicts exist.
   - Develop preliminary façade concepts for review with the Parking Steering Committee, The Historic Preservation Commission, The Village Council, and The Planning Board.
   - Preparation of preliminary order of magnitude cost estimate for three (3) conceptual designs.
   - Prepare thirty-two (32) sets of conceptual plans and elevations for distribution to aforementioned parties for review and comment.
   - Present conceptual plans and elevations at up to two (2) public meetings.
6. Coordinate with Maser Consulting for the necessary land development and Planning Board approvals.

7. Review the provided geotechnical report (prepared by others) for confirmation of recommendations and request additional information as may be necessary. We expect that the boring locations will be coordinated with garage grids.
8. Provide a comprehensive code analysis for the parking garage. Distribute the analysis to all project team members and the Village.
9. Coordinate with Maser Consulting for the incorporation of the boundary and topographic survey prepared by others (Daniel M. Dunn, PLS). We understand the Daniel M. Dunn survey includes topography, utility information, and property lines.

10. Facilitate the traffic study (additional service) with Maser Consulting, the results of which will determine the extent of modifications, etc. to the adjacent intersections, if necessary, as well as locations of the vehicular entry/exit lanes based upon anticipated entry/exit volumes during peak times.



11. Provide a Design Criteria Confirmation Sheet to explain the design intent for all disciplines, and convey pertinent information to the Village and future team members.

12. Prepare architectural concepts in concert with the selected functional design.

13. Anticipate attending four (4) project meetings and/or go-to meetings with the Village during this phase. Other coordination meetings with project team will be conducted for coordination.

14. In addition, we expect to attend up to seven (7) meetings/presentations with the planning department, historic review board, the public, and the Village.

15. We anticipate attending eleven (11) meetings total during the schematic design phase. Prepare required exhibits for each meeting.

Design Development Phase

1. Upon approval of the Schematic Design phase, begin to further develop the design and specifications of the key architectural and engineering disciplines.

Architectural Design and Documentation

- Provide full architectural documentation including the stair/elevator towers and elevations
- Review comments from various public meetings with the Parking Steering Committee for consideration into Revised Conceptual Plans
    - Prepare thirty-two (32) sets of revised conceptual plans and elevations for distribution to aforementioned parties for review and comment
    - Present revised conceptual plans and elevations to Parking Steering Committee and the Village Council
- Develop AutoCad elevations and building sections consistent with the selected façade concept
- Prepare a preliminary finish schedule for approval
- Discuss preliminary graphic requirements for the parking structure

Scope of Services

Structural

- Commence development of the substructure design and detailing based on geotechnical recommendations
- Provide superstructure member sizes and key details
- Review and discuss fire rating requirements, etc.
- Review durability design for the garage

Electrical

- Coordinate closely with our Electrical Engineer
- CCTV Security system design included. Location to be confirmed with the village
- Provide light fixture types and foot-candle requirements to assure requirements are met
- Coordinate with local utility companies to assure capacities are available
- Coordinate façade lighting

Mechanical/Plumbing/Fire Protection

- Coordinate closely with the Plumbing and Fire Protection Engineer
- Provide layout for all drain locations based on structural spot elevations
- Provide drain fixture types for all levels
- Locate dry standpipes (Based on open parking structure)

Civil/Site (By Maser Consulting)

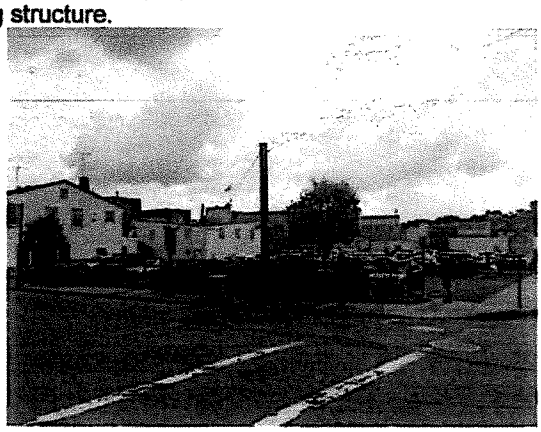
- Coordinate closely with Maser Consulting for utility connections, grading, etc.

Traffic (By Maser Consulting) – ADDITONAL SERVICE

- Prepare a traffic study of the impacts of the proposed parking structure on the adjacent streets and intersections. Determine Level of Service (LOS), and if the proposed structure would cause any deterioration in LOS, propose measures to address and mitigate issues resultant of the parking structure.

Geotechnical (By others)

- Work with Geotechnical Engineer to finalize the most practical and cost effective foundation system based on recommendations provided in the Geotechnical Report. TimHaahs will request a preliminary letter of findings two (2) weeks prior to final report so that the foundation design may commence earlier in the DD phase.



2. Finalize systems, materials, construction methods, etc. for each discipline.

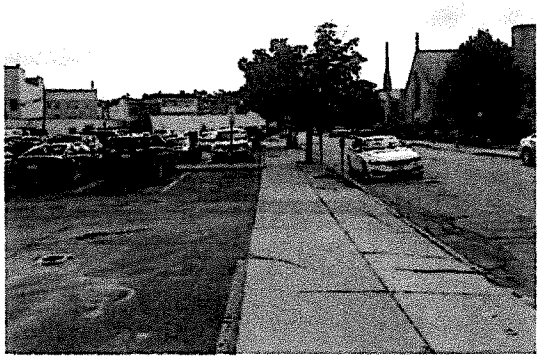
3. Provide a Design Development Package to the Village to ensure that the design meets all project requirements, pricing limitations and expectations. Note that this package may be a precast package with the intent to lock in a fabrication slot with a precast manufacturer. This may be recommended based on the current lead times in the industry. This will be determined early on in the SD phase. Likewise, if additional "early bid sets" are needed to secure pricing from Contractors (such as Foundations), this can be factored into the schedule and design as well. Note that if this is the case, a Construction Manager would assist in the bidding process. To be further discussed with the Village.

4. Anticipate attending three (3) project meetings and/or go-to meetings, and one (1) public meeting with the Village during this phase. Other coordination meetings with project team will be conducted for coordination.

Construction Document Phase

1. Prepare final construction drawings and specifications for services previously stated.

2. We anticipate providing drawings at the following intervals:
   a) 95% Documents – to assure all final comments from Parking Steering Committee are incorporated.
   b) Bidding Documents (plans and specifications) – in accordance with State of New Jersey Local Public contracts Law.
   c) For Construction Set (plans and specifications) – submitted with all addendums, etc.



3. Anticipate attending two (2) project meetings with the Village and/or go-to meetings during this phase. Other coordination meetings with project team will be conducted for coordination.

Bidding Phase

1. Provide electronic Bid Documents for public bidding.

2. Facilitate pre-bid meeting with prospective bidders. Respond to bidder RFI's and issue clarifications as needed prior to bid due date.

3. Assist the Village in reviewing bids and provide recommendation for awarding to Contractor.

4. Attend kick-off meeting with awarded Contractor to ensure direction and tone of project is set.

Construction Administration Phase

1. Review all shop drawings and material submittals for our work. (This is included in our base fee as EOR). Submittals will be stored on TimHaahs Sharefile software, with access granted to the Village and Contractor.

2. Preside over the following meetings. These meetings are scheduled to ensure that all trades understand and are in complete agreement with the expectations set forth in the construction documents.

a) Pre- concrete/waterproofing meeting
b) Pre- precast installation meeting

3. Be available to answer questions and provide clarifications as required.

4. Review Contractor payment applications and provide recommendations for approved payments based on observed work completed in accordance with the construction documents.

5. Review Contractor schedule and provide recommendations to assure milestone dates are reached.

6. Provide initial review of Contractor change order requests.

7. Participate in site visits/project meetings to ascertain compliance with the construction documents, which includes a final punch-list. We have budgeted up to fourteen (14) site visits during construction, which is based on a 10-month construction period, and will provide field reports as a follow-up to field visits to record our observations.

8. Any other construction administration services will be considered additional services at the attached hourly rate schedule (see attached).

Post Construction Phase

1. Perform an 11th month walk thru with the Village and Contractor to determine the work required prior to warranty expiration.

2. Provide a written field report outlining all necessary work items to all parties.

3. Provide a follow up review to assure the work items were addressed as required.

SCOPE OF SERVICES EXCLUSIONS

The following services are <u>not</u> included in our proposal and fee:

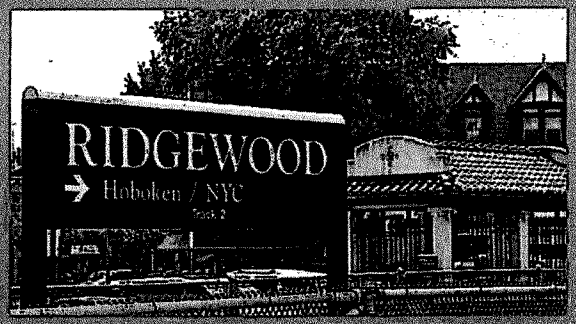
- Testing/Inspections during CA (TimHaahs will provide plans/specifications to the Village for bidding to qualified third party testing agents, procured directly by the Village).
- Environmental Services
- Survey – We understand all survey information will be provided in ACAD format from Daniel M. Dunn, PLS
- Geotechnical – We understand geotechnical investigation is being performed by First Environment and preliminary findings will be reported to the team at the start of design. If additional geotechnical investigation is required, we recommend budgeting an additional $12,750.00 by Maser.
- Photovoltaic array design on the top level. Provisions for the installation of future arrays are included.
- Mass production of bidding documents.

Scope of Services

- Permit/Certification fees
- Field visits beyond those noted – additional visits will be billed at the per day rate noted in the attached cost proposal .
- Green Garage Certification / LEED Certification
- Provisions for future expansion.
- Presiding over and generating meeting minutes during construction. This is typically done by the Contractor and / or CM.
- DCA permit approvals – Elevator permit included by Contractor

The Village of Ridgewood, NJ

Parking Structure Design



September 3, 2015

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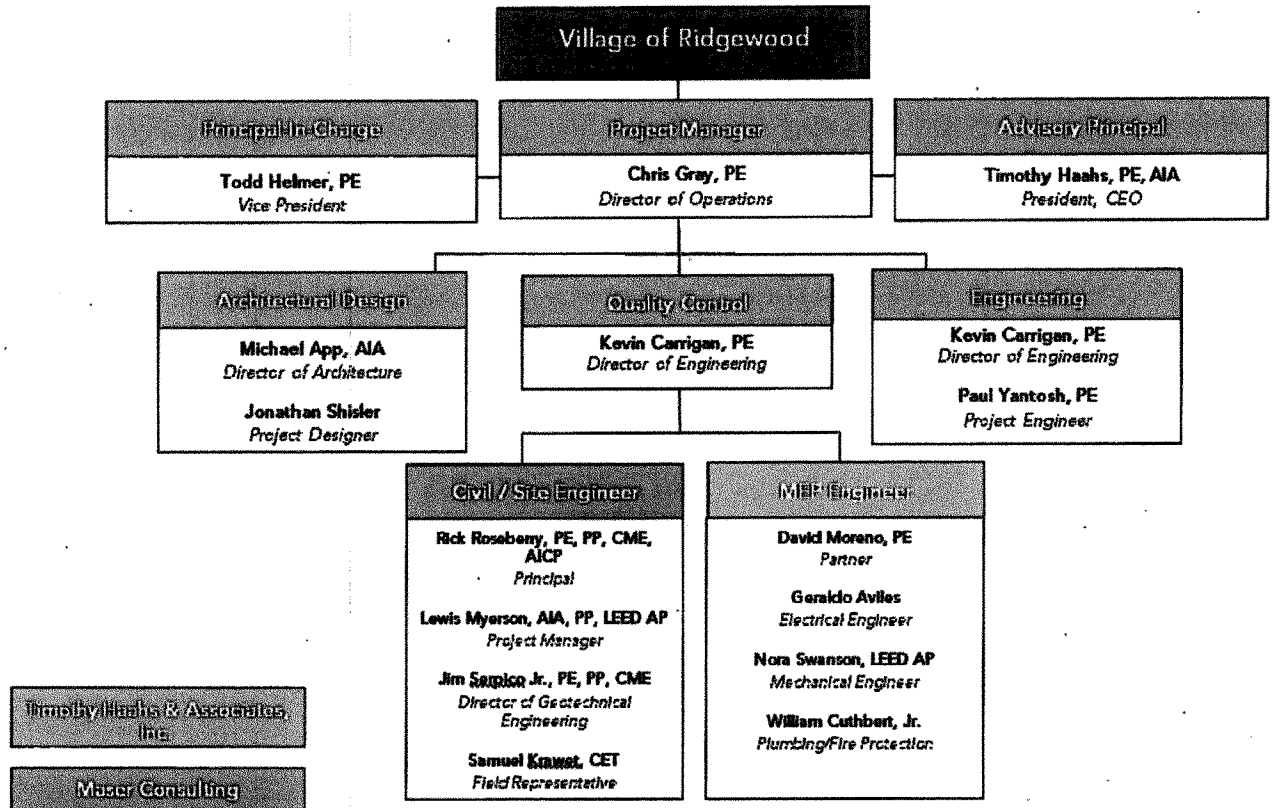
Communications Chart



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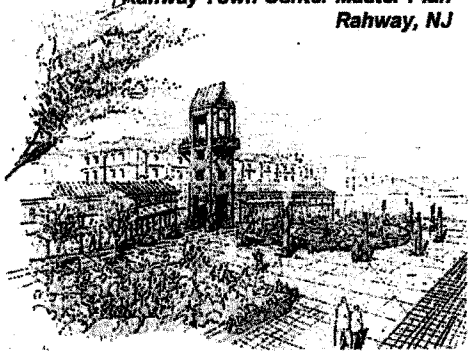
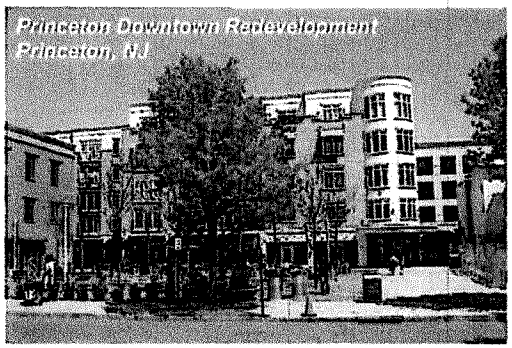
TimHaahs' Core Values:
Going the extra mile / Keeping clients informed / Returning phone calls on the same day

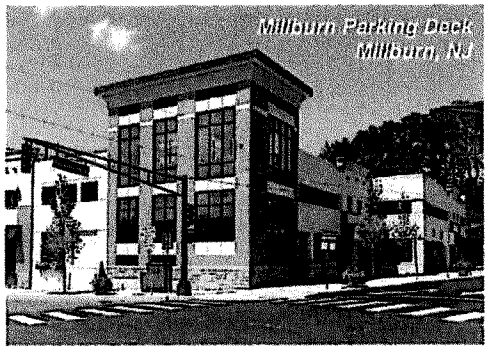
Significant Municipal Experience in New Jersey

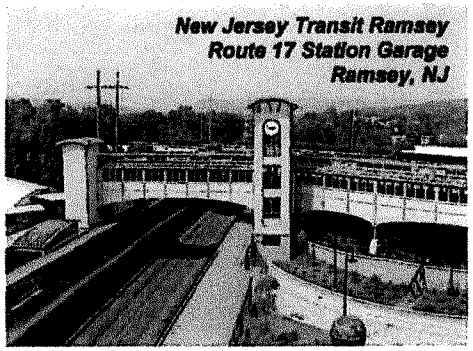
- Township of Millburn
- Borough of Metuchen
- Borough of Princeton Redevelopment
- New Brunswick Parking Authority
- Borough of Fort Lee
- Village of South Orange
- Borough of Somerville
- City of Newark
- City of Rahway
- New Jersey Transit


Rahway Town Center Master Plan
Rahway, NJ


Pearl Street Piazza Parking Garage Design
Metuchen, NJ


Princeton Downtown Redevelopment
Princeton, NJ


Millburn Parking Deck
Millburn, NJ


New Jersey Transit Ramsey
Route 17 Station Garage
Ramsey, NJ

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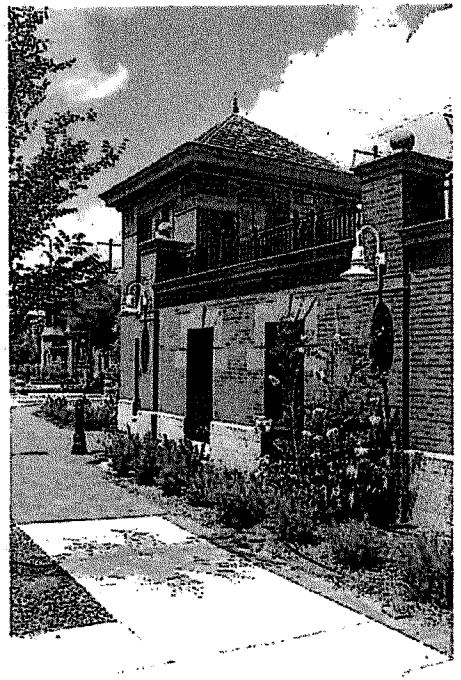
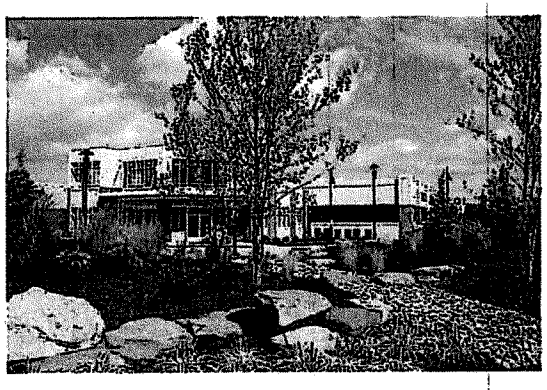
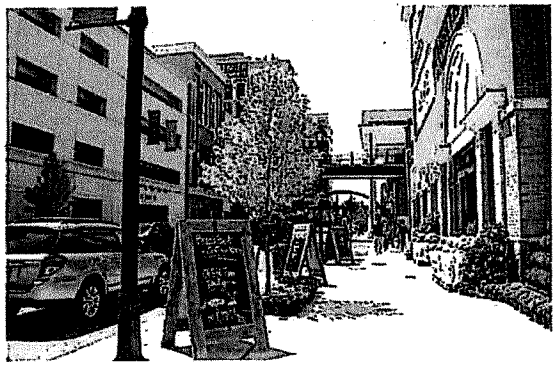
Keys to Project Success

- Project schedule / cost estimate
- Architectural design
- Public and local reviews







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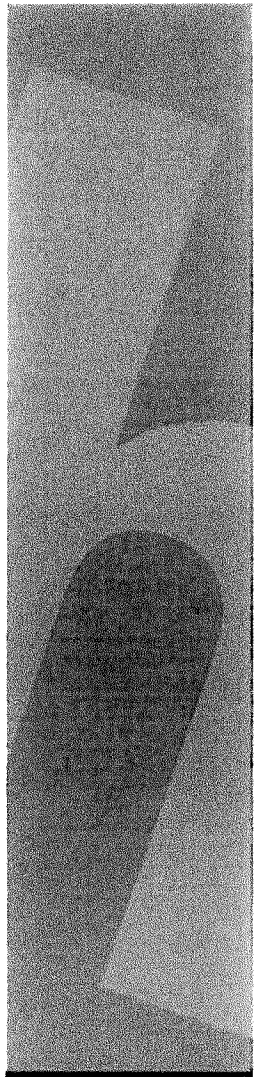

Schedule

Sep.16, 2015:	Notice to Proceed
Oct. 07, 2015:	**Presentation of concepts (including exterior views and renderings) to Parking Committee**
Oct. 08, 2015:	Historic Preservation Commission – Courtesy Presentation
Oct 14, 2015:	Presentation of concepts to Village Council (public meeting)
Oct. 20, 2015:	Presentation of concepts to Village Planning Board (public meeting)
Nov. 01, 2015:	Presentation of concepts to general public
Nov. 03, 2015:	Continuation of hearing of concepts to Village Planning Board
Dec. 02, 2015:	Presentation of revised concepts
Dec. 21, 2015:	Issue Bid Documents to the Village
Jan. 20, 2016:	Bid opening
Feb. 01, 2016:	Bid review and recommendations
Feb. 10, 2016:	Contractor Award

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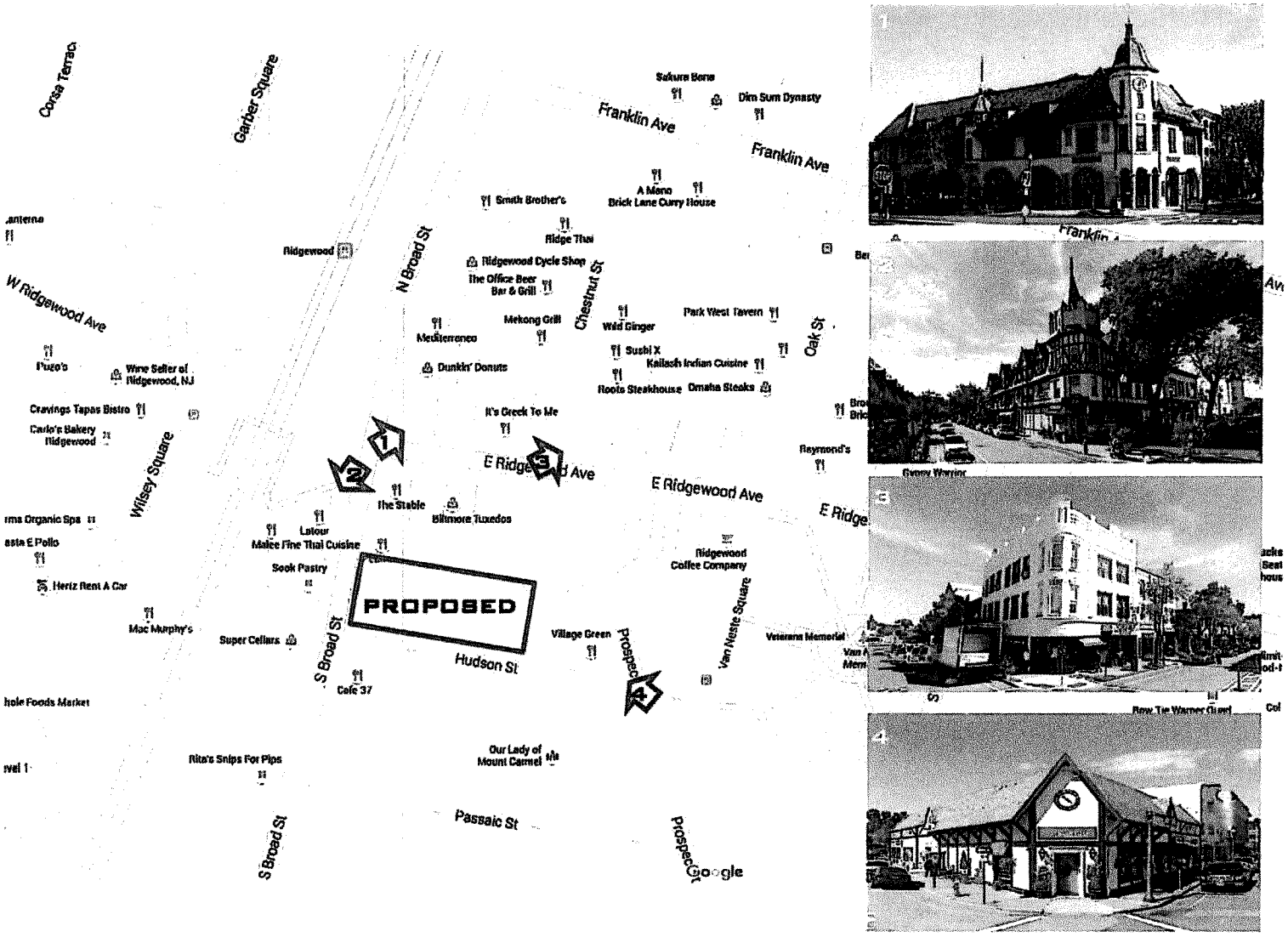
Architectural Context



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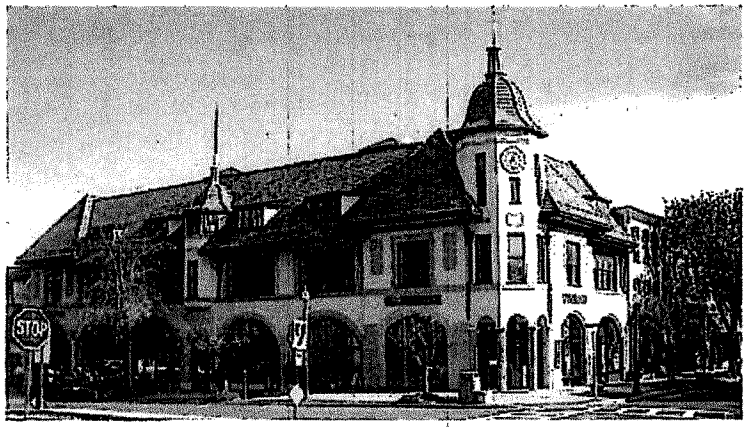
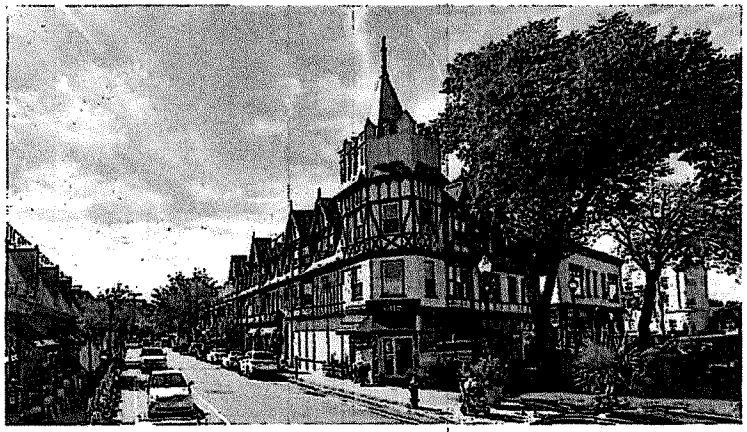
Architectural Context: *The Corner*





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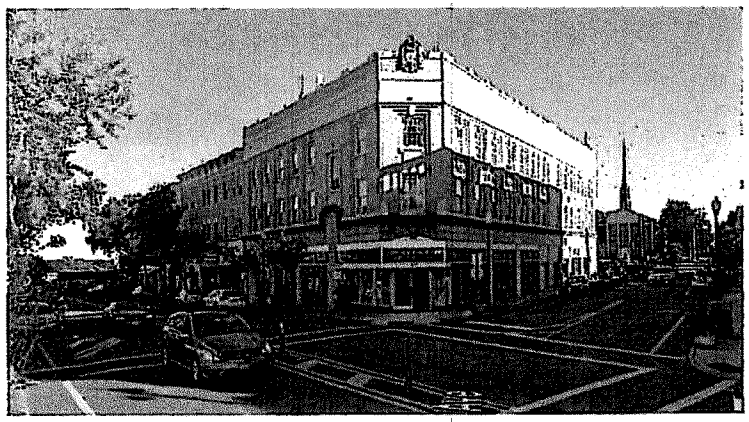
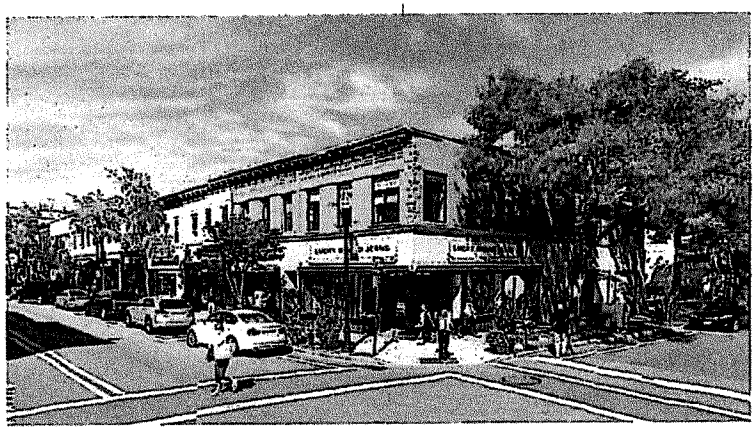
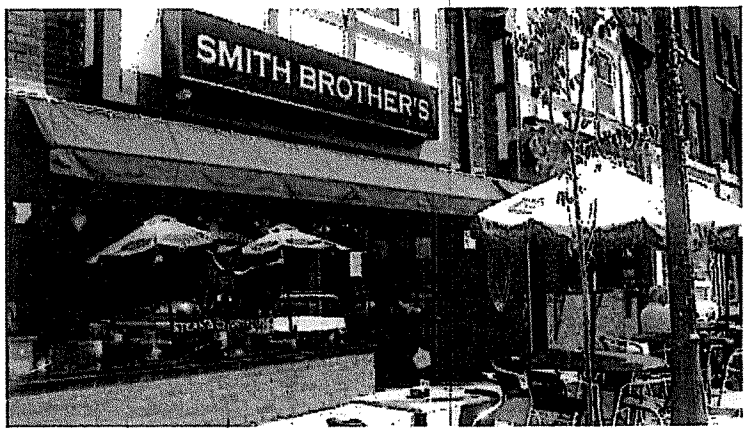
Architectural Context: *Pedestrian Experience*







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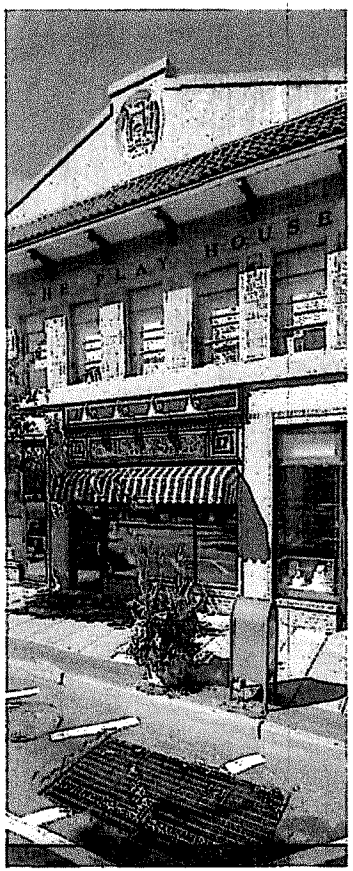
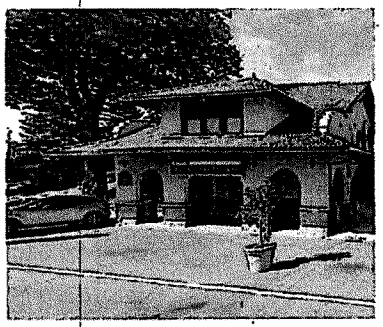
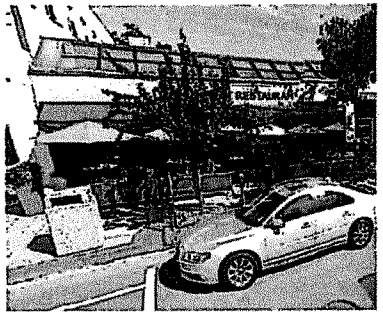
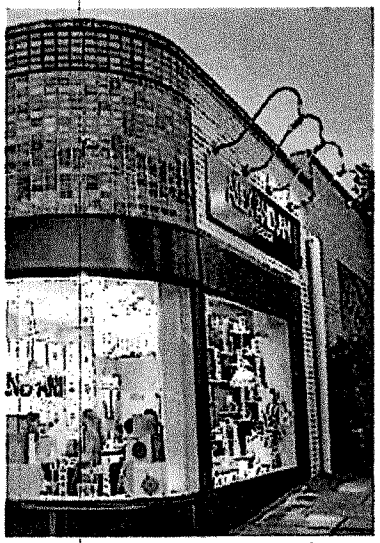
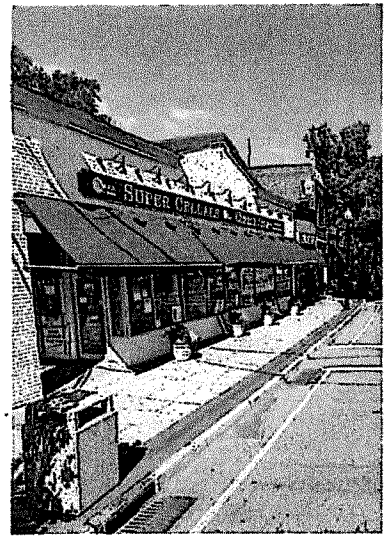
Architectural Context: *Details*

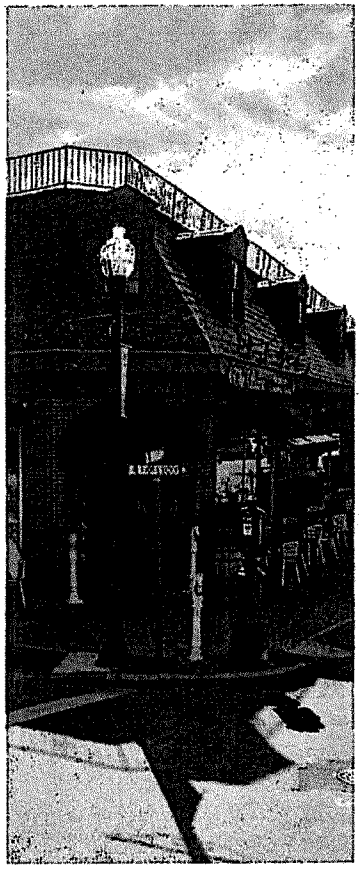












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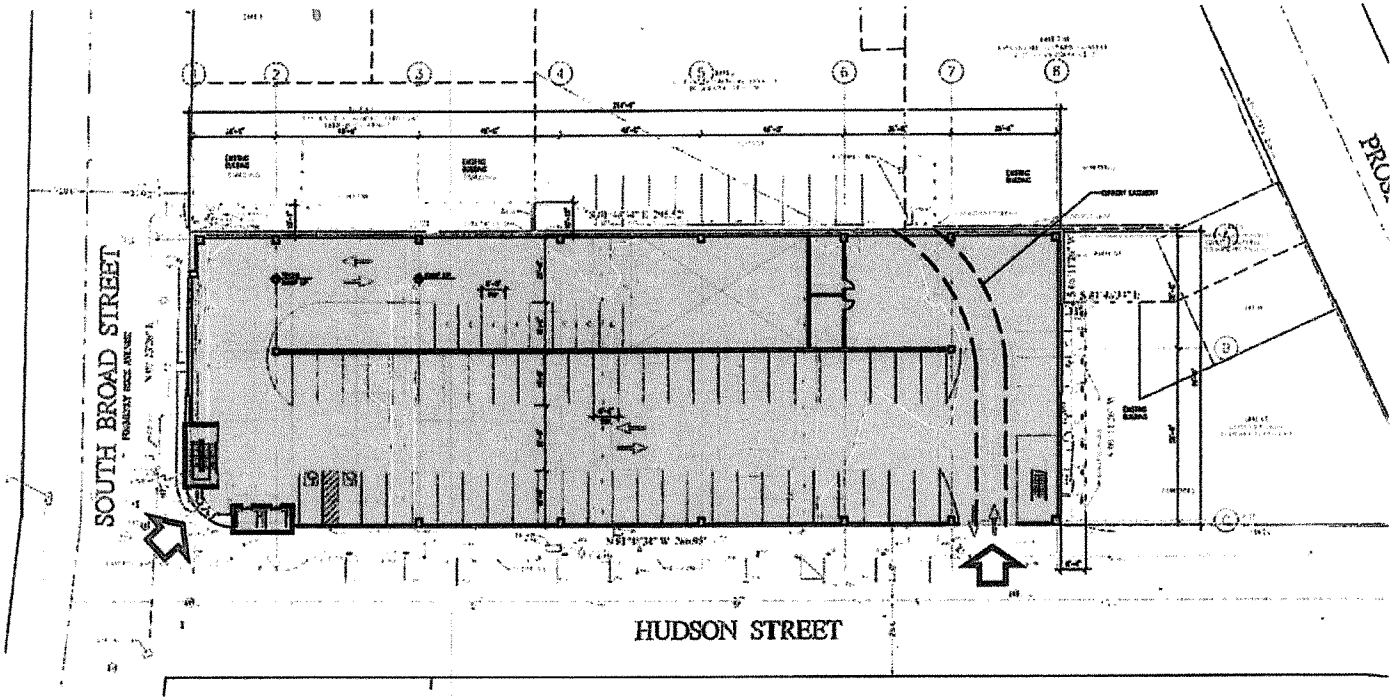
Potential Design Opportunity: *Site*



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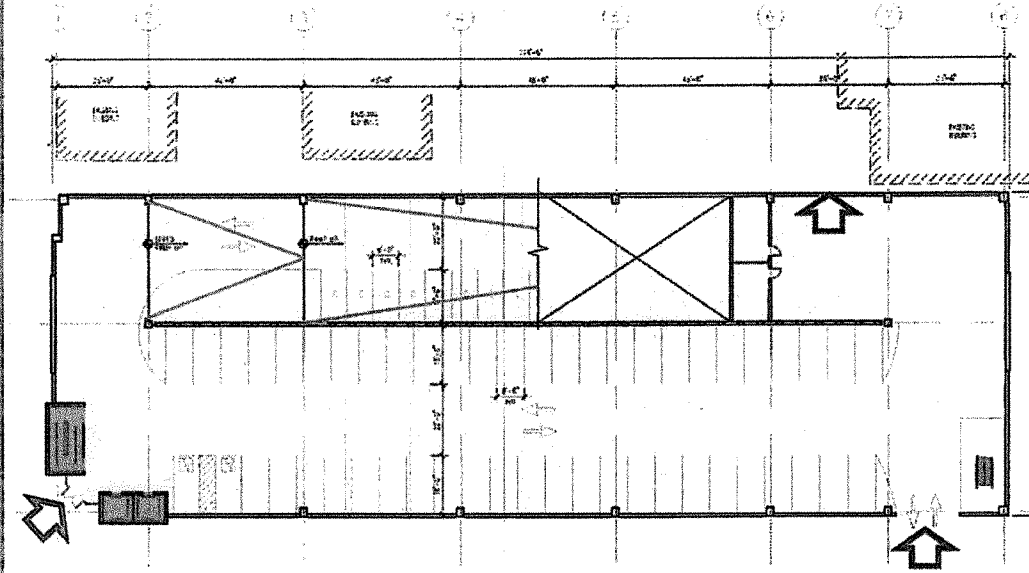
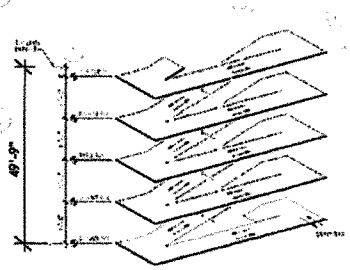
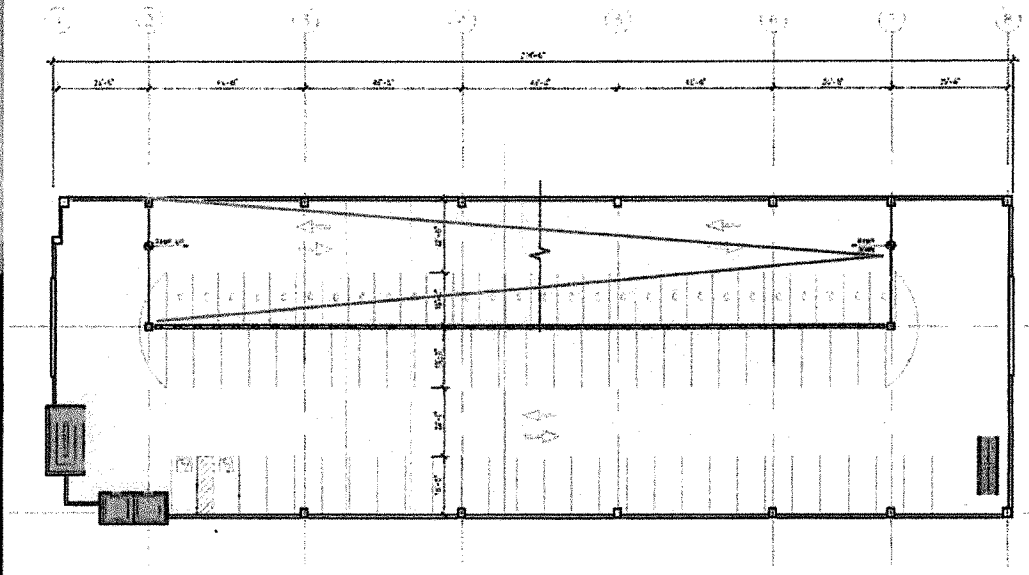
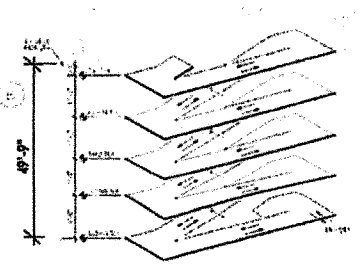
Potential Design Opportunity: *Option 1*





CAR TABULATION				
LEVEL	STANDARD	COMPACT	ACCESSIBLE	TOTAL
Top	50	14	6	70
4th	51	26	2	87
3rd	51	28	2	87
2nd	51	28	2	87
Ground	49	8	2	59
TOTAL	258	106	14	372





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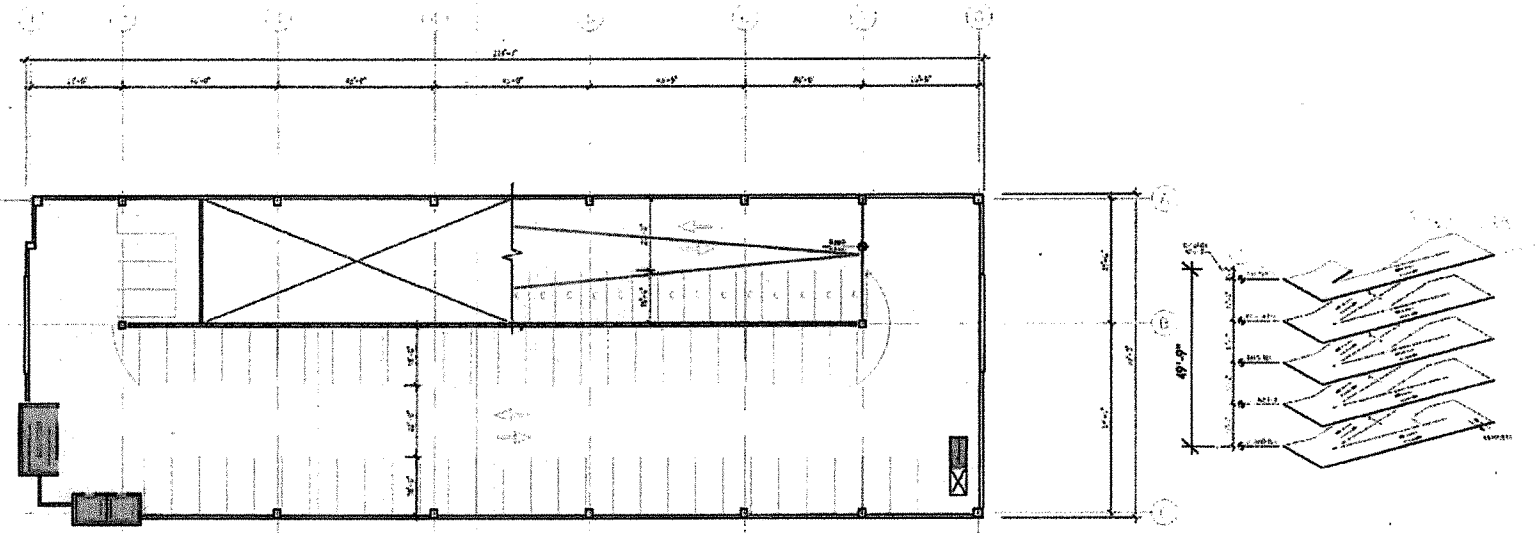
Potential Design Opportunity: *Option 1*



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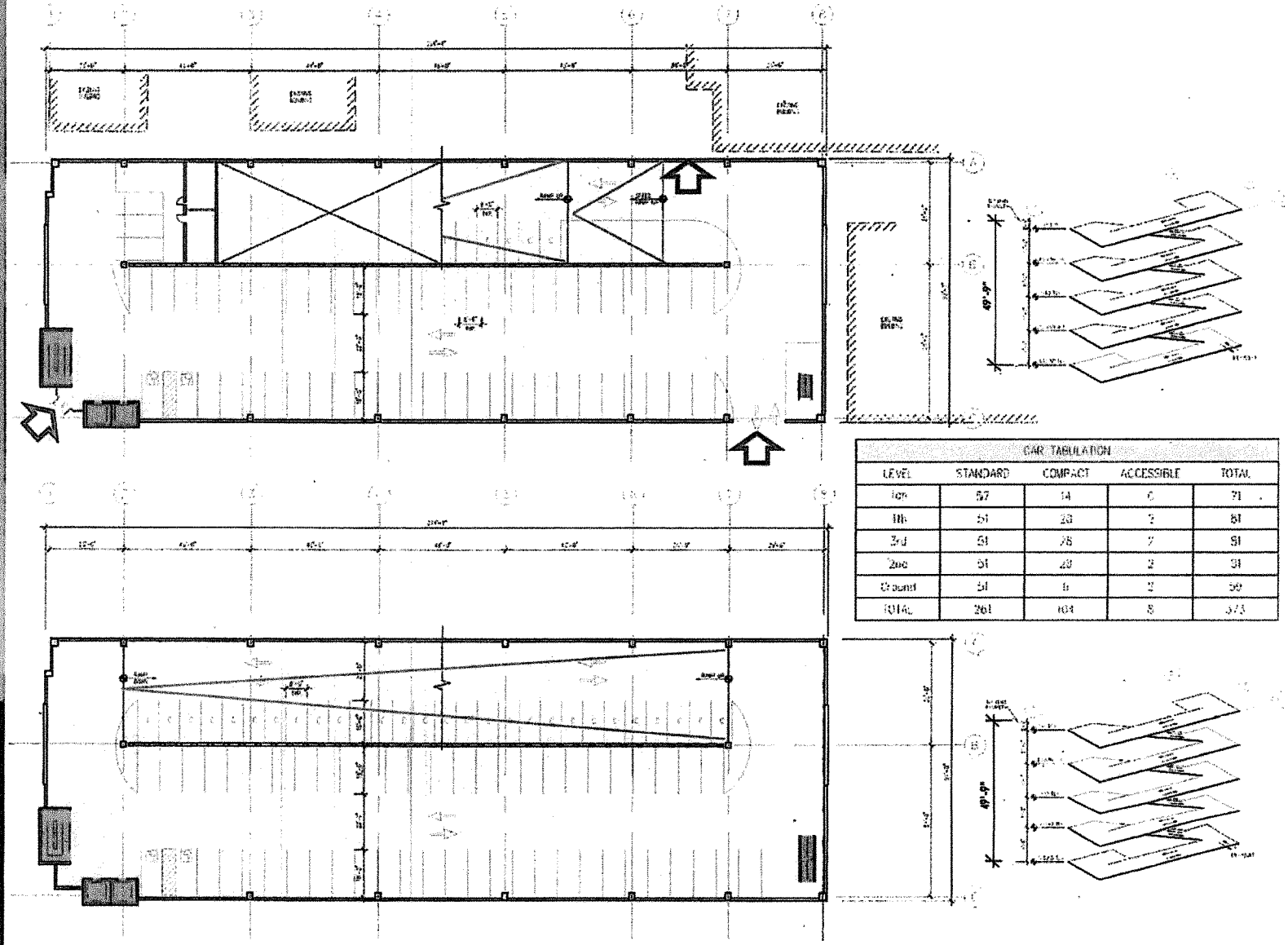
Potential Design Opportunity: *Option 2*



CAR TABULATION				
LEVEL	STANDARD	COMPACT	ACCESSIBLE	TOTAL
4th	57	14	0	71
3rd	61	20	2	83
2nd	61	26	2	89
Ground	61	6	2	69
TOTAL	261	104	6	373

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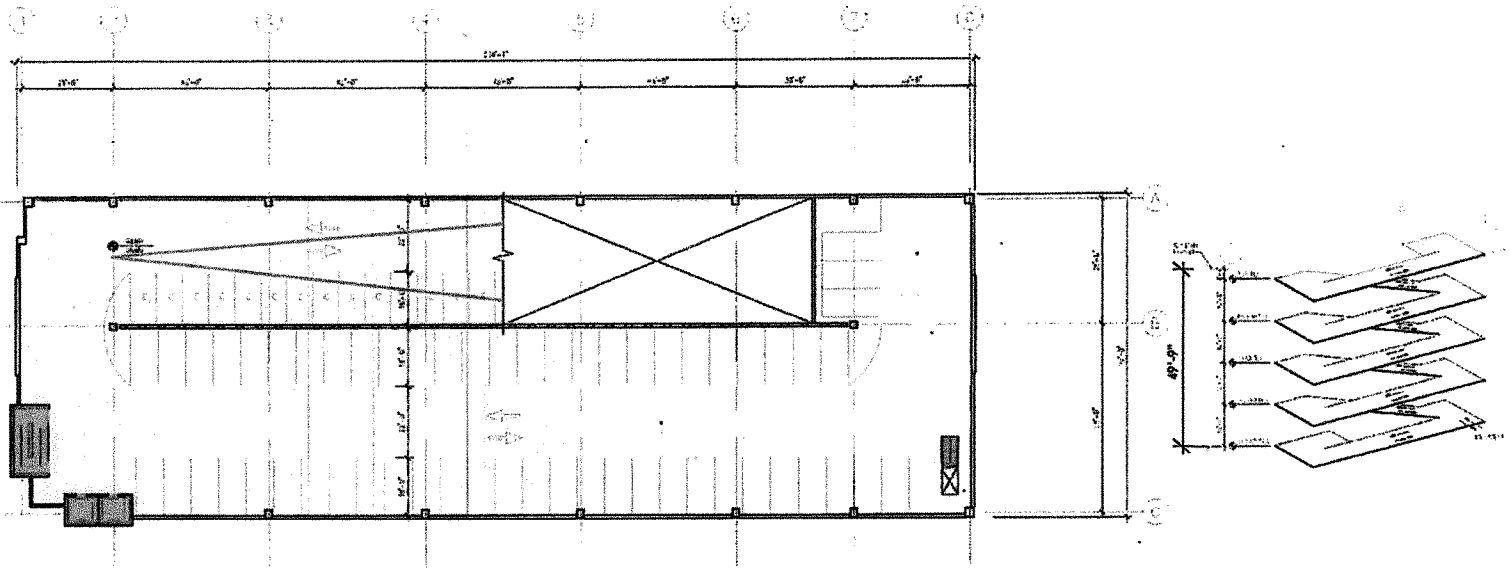
Potential Design Opportunity: *Option 2*



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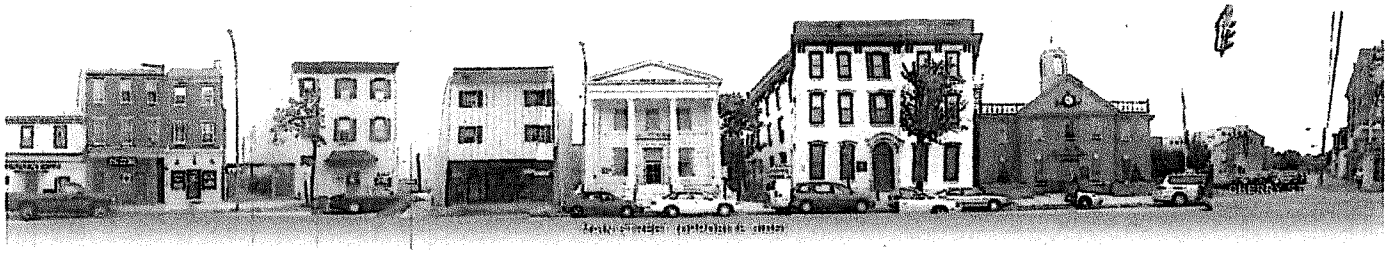
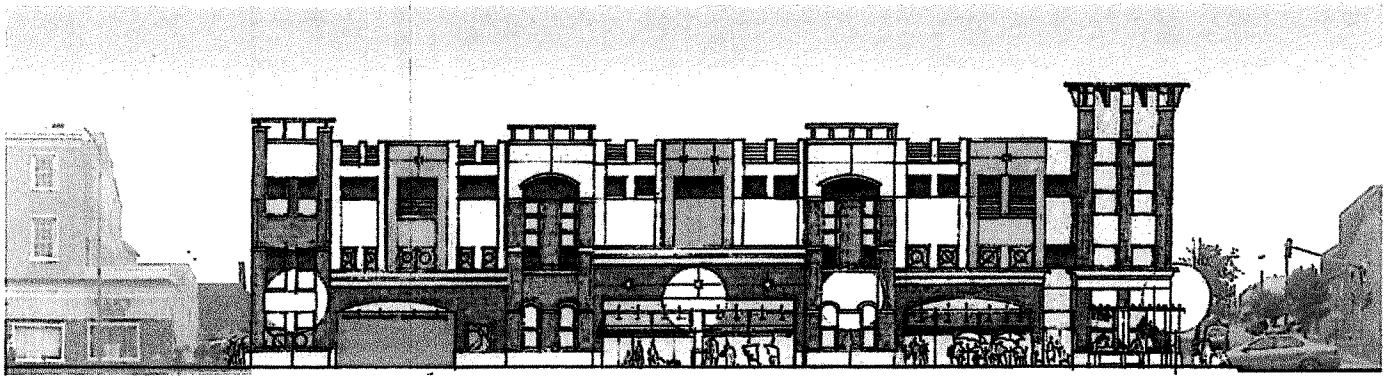
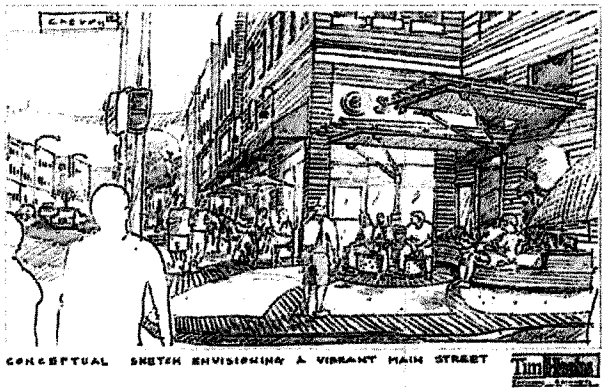
Context and Sources







CONCEPTUAL SKETCH ENVISIONING A VIBRANT MAIN STREET

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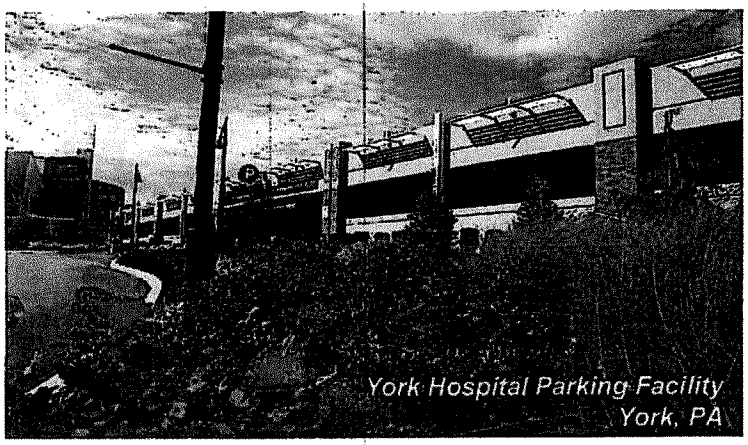
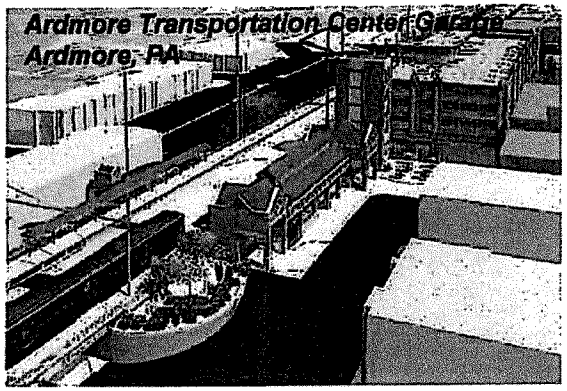
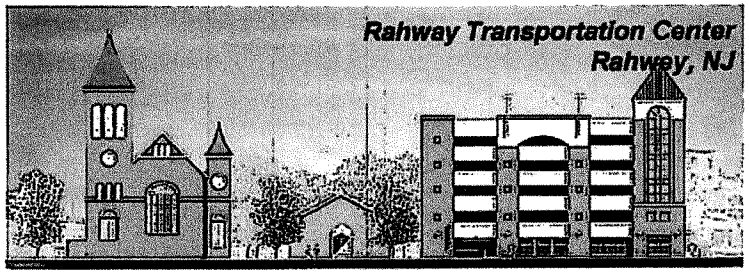
Site Integration

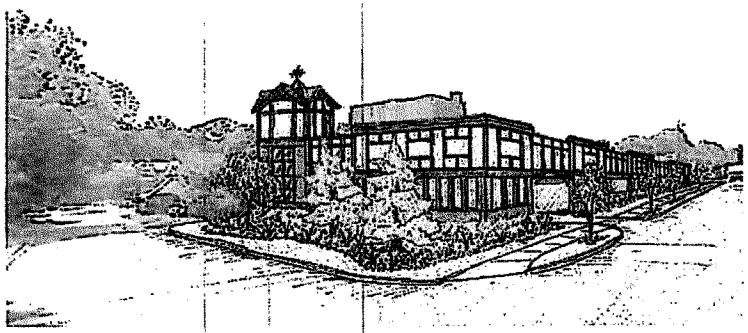

York Hospital Parking Facility
York, PA

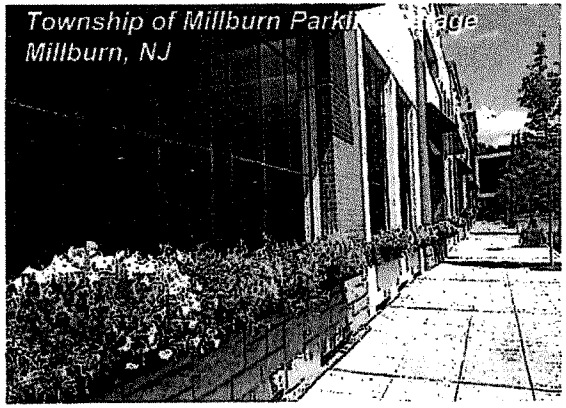

Ardmore Transportation Center Garage
Ardmore, PA


Rahway Transportation Center
Rahway, NJ


Ardmore Transportation Center Garage
Ardmore, PA

Keswick Village Revitalization Plan
Glenside, PA




Township of Millburn Parki[illegible]age
Millburn, NJ

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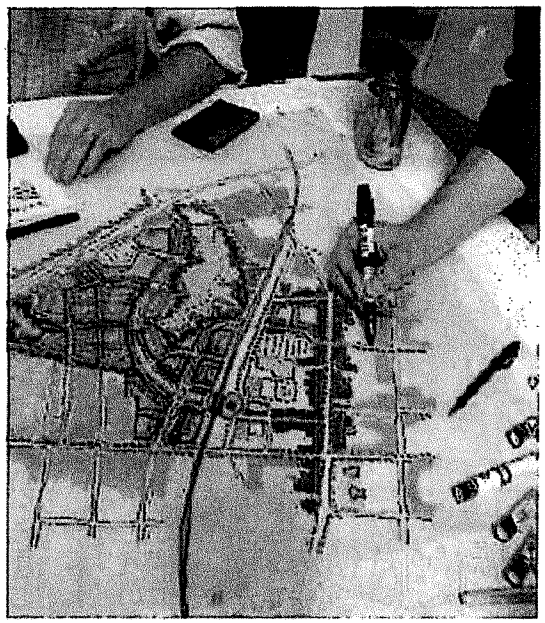
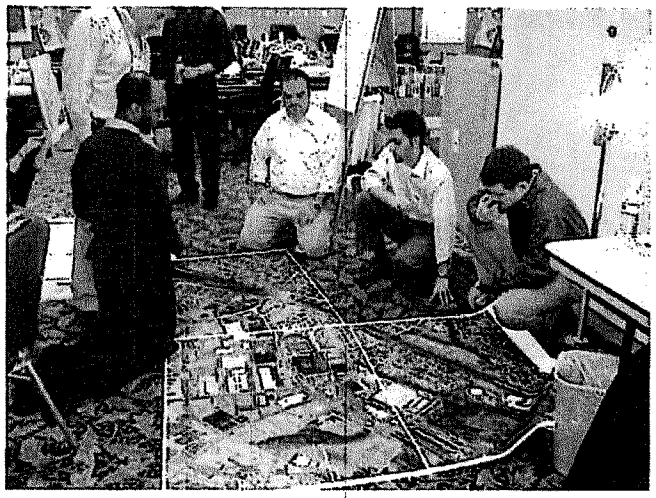
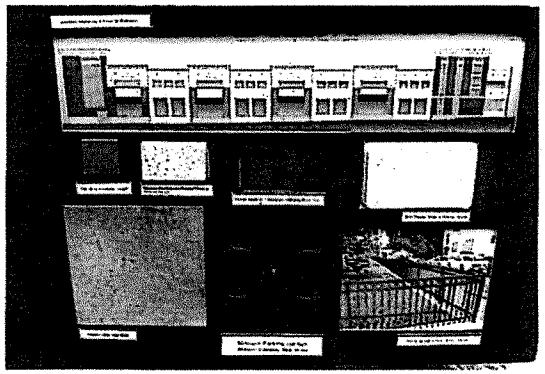
Public Review Process







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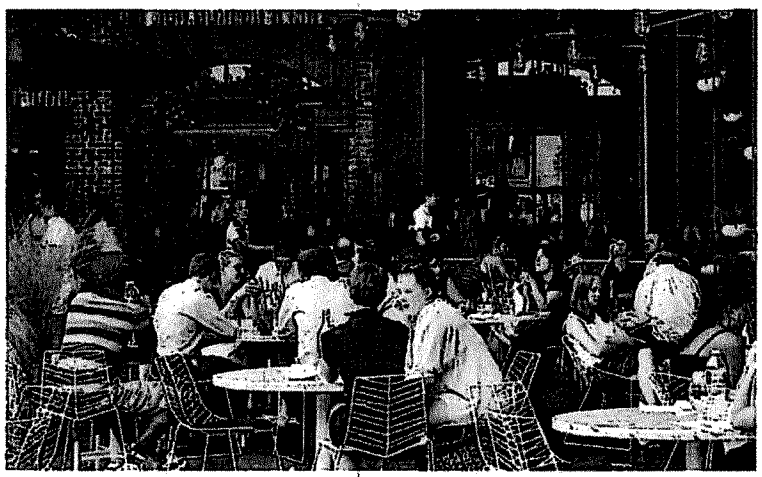
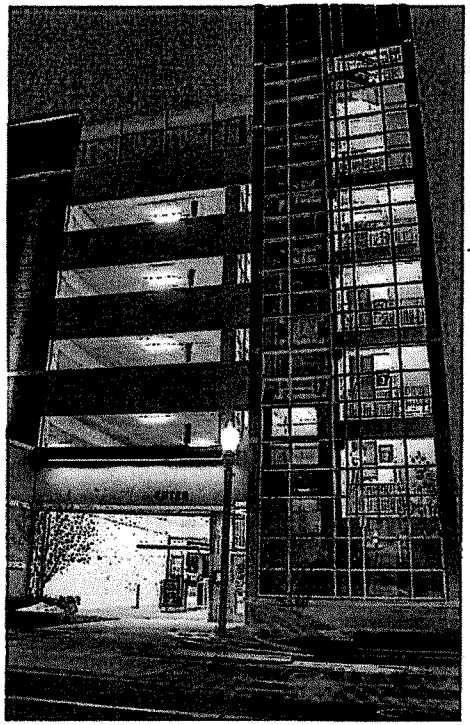
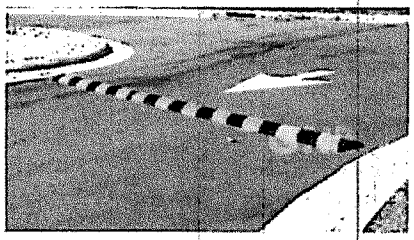
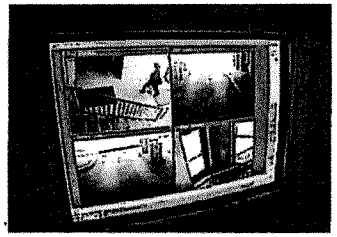
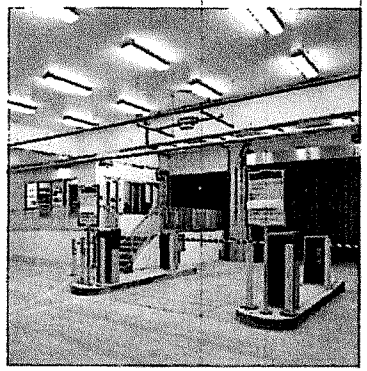
Enhanced Safety and Security

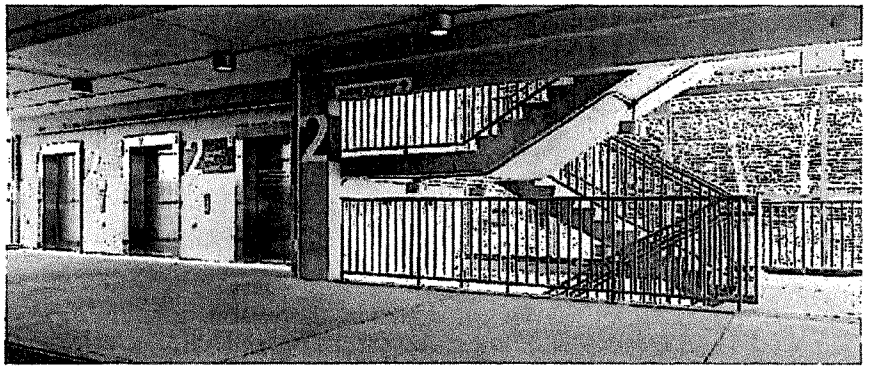












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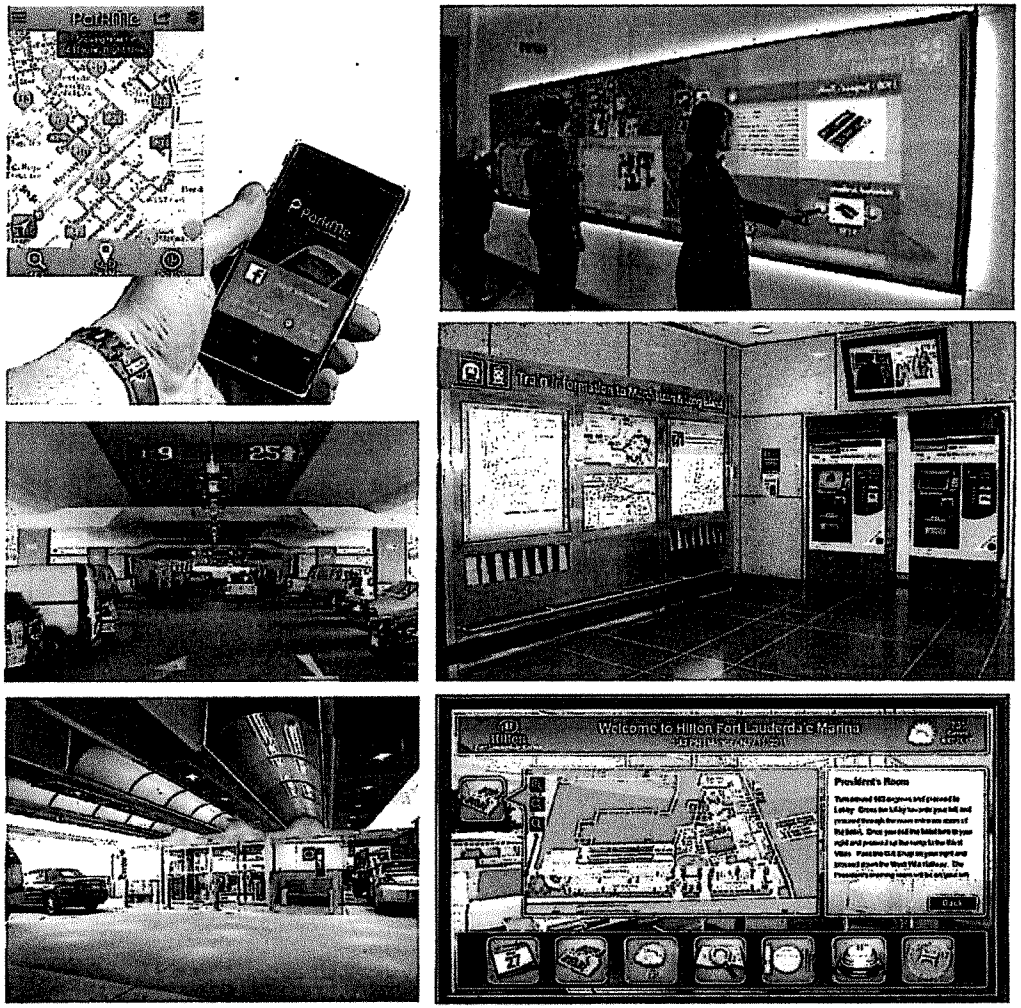
Innovation Opportunities

- Parking Equipment with the ability to show occupancy (ParkAssist)
- Security Systems with cameras and visual displays
- Interior Lighting
- Music
- Interactive Digital Concierge
- Mobile Apps to find parking, reserve parking, and pay for parking (Haystack, ParkMobile) and QR Codes



CREATE A PLEASURABLE PARKING EXPERIENCE

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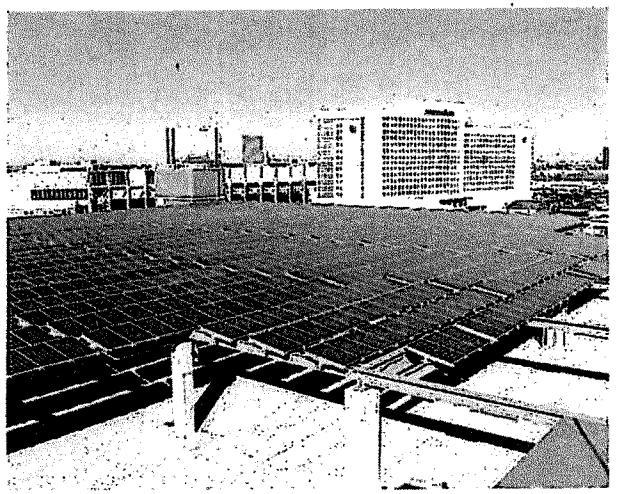
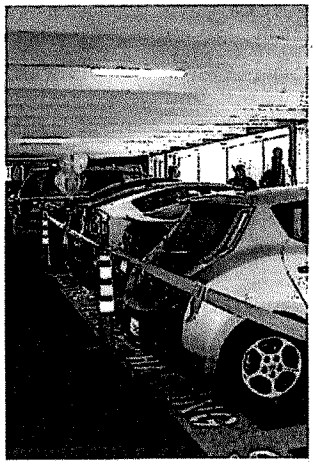
Sustainable Opportunities

- Efficient lighting and controls
- Storm water management
- Provisions for solar array
- Electric car charging stations
- Preferred parking options
- Car pools
- Bike storage
- Mixed-use





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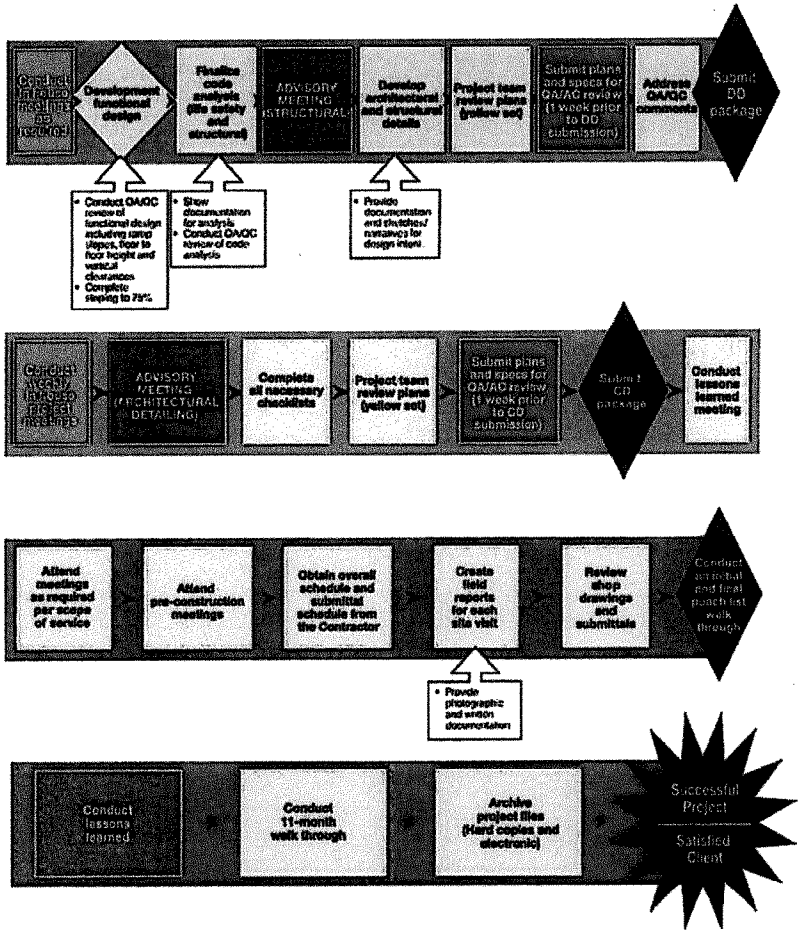
Pathway to Project Success

- **Cost Control**
  - Estimates at each phase
  - Familiarity with market cost
- **Quality**
  - Design criteria confirmation
  - Initial team work/visioning session
  - Advisory meetings
- **Schedule**
  - Accelerated, fast-tracked
  - Construction procurement method
  - Minimize displacement
  - Traditional vs. development of bid packages



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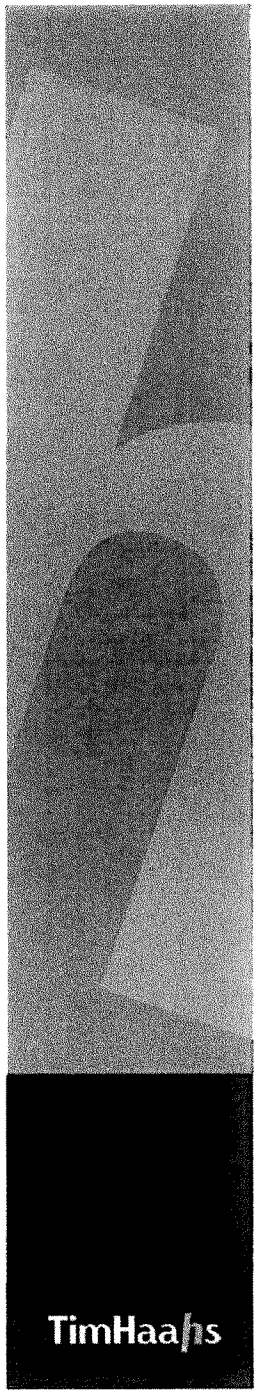

Why the TimHaahs Team?

- **Architectural/Engineering firm specializing in parking and planning**
  - Appropriate massing and material selection
  - Focus on the attention to details and user experience
  - Consider the importance of user interface/comforts
  - Sensitive to security and safety
- **Strong team working relationship**
  - TimHaahs team successful in the past
- **Municipal and public entity experience**
  - PM has significant experience
  - Community meeting and public participation process experience
- **Core Values**

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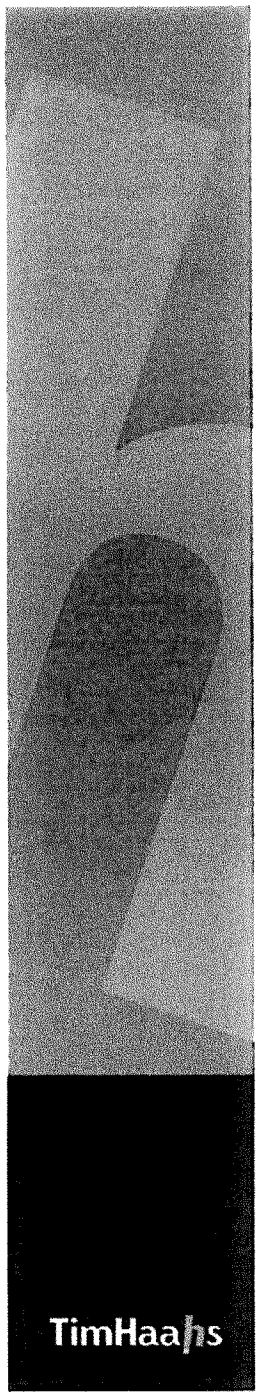
TimHaahs' Core Values:
Going the extra mile / Keeping clients informed / Returning phone calls on the same day



Testimonial

I can highly recommend the Tim Haahs firm, as they have proven themselves to be disciplined, professional, attuned to clients' needs and cognizant of local regulations pertaining to their field of expertise. They truly are experts in the field of parking structure design and operation and will definitely add value to your project.

-Tamara Dolan, Executive Director
Allentown Parking Authority

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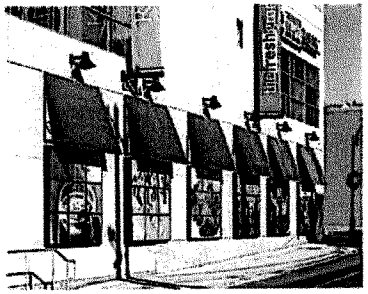
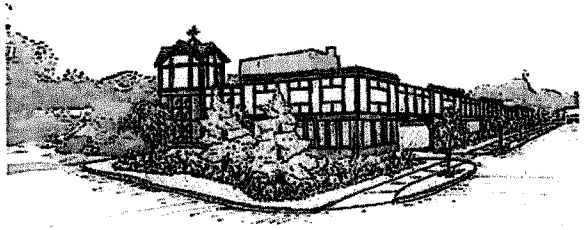
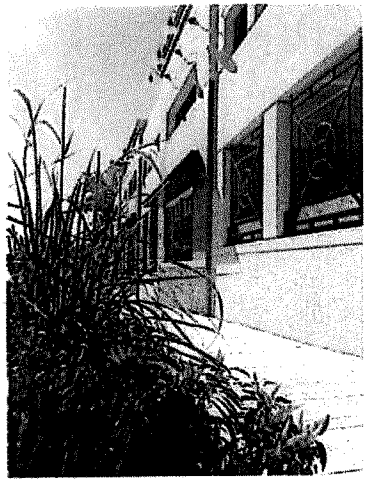
Questions?

Thank You!







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