FIRM OVERVIEW

Malick & Scherer, P.C. (M&S) is a New Jersey-based, multidisciplinary engineering firm providing transportation design, environmental services, hydraulics & hydrology, surveying, and construction support for infrastructure projects throughout New Jersey and the surrounding region. For nearly three decades, M&S has delivered pedestrian, bicycle, streetscape, corridor safety, and ADA compliance improvements for NJDOT, NJTPA, counties, and municipalities under both state-funded and federally funded programs.

M&S has extensive experience guiding Local Public Agencies (LPAs) through the NJDOT Local Aid and FHWA federal-aid delivery process. Our team understands the procedural, technical, and regulatory requirements associated with Preliminary Engineering, environmental screening and documentation, final design, PS&E preparation, utility coordination, right-of-way support, and construction phase services. We work closely with project sponsors to ensure compliance with applicable standards including AASHTO, MUTCD, NJDOT Roadway Design Manual, NJDOT Standard Specifications, and federal-aid requirements while keeping safety and local concerns an integral part of our design process.

Our multidisciplinary structure allows us to provide roadway and intersection design, ADA-compliant pedestrian facilities, shared-use paths and pedestrian bridges, traffic signal and safety improvements, stormwater management, floodplain analysis, environmental permitting, and constructability review within a coordinated project team. This integrated approach supports efficient delivery, proactive risk management, and practical, buildable solutions.

M&S is committed to helping communities advance Transportation Alternatives projects that enhance safety, accessibility, and quality of life. We prioritize clear communication, regulatory compliance, and disciplined project management to deliver improvements that are technically sound, context-sensitive, and aligned with funding requirements.

Complete Streets & Multimodal

- Corridor safety improvements and crash reduction measures
- Traffic calming and roadway reconfiguration
- Streetscape enhancements and pedestrian-oriented design
- Integrated bicycle and pedestrian accommodations

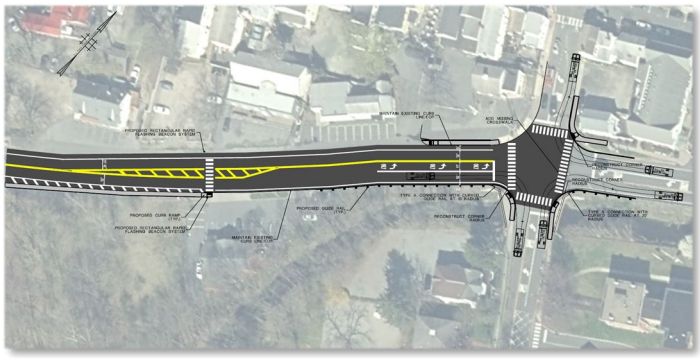
Pedestrian & ADA

- ADA-compliant curb ramp design and retrofits
- High-visibility and raised crosswalk treatments
- Pedestrian signal upgrades and countdown heads
- Sidewalk reconstruction and accessibility improvements

PEDESTRIAN AND CORRIDOR MOBILITY PROJECTS

NJDOT – Route 173 Pedestrian Mobility Improvements
Clinton & Clinton Twp, NJ | FHWA Funded | $3M
Role: Prime | Status: Preliminary Engineering

Full-scope pedestrian safety improvements along a one-mile Urban Minor Arterial corridor in the Town of Clinton and Clinton Township. The project advances the PPA to provide a continuous pedestrian route, upgrade substandard ADA ramps and guiderail, improve crosswalks and traffic signals at Center Street and Leigh Street, and resurface the roadway with updated pavement markings.



NJDOT – Route 4 Pedestrian Mobility Improvements
Teaneck, NJ | State Funded | $2M
Role: Prime | Status: Construction Completed

Corridor pedestrian mobility improvements including sidewalk rehabilitation, ADA curb ramps, crosswalk upgrades, bus shelters, stairways, traffic signal upgrades, signing, and guiderail enhancements. M&S performed detailed survey and base mapping, ROW mapping and deed preparation, roadway design, utility coordination, and preparation of construction documents in accordance with NJDOT standards and manuals.

NJDOT – Route 440 / Routes 1 & 9 Truck Bicycle-Pedestrian Improvements
Jersey City, NJ | State Funded | $3M
Role: Prime | Status: Construction Completed

Two-mile corridor safety and mobility improvements enhancing bicycle and pedestrian access along a high-volume urban roadway. Scope included new sidewalks, ADA curb ramps, crosswalk striping, guiderail upgrades, drainage evaluation, pavement design, traffic signal modifications at three intersections, MPT, and preparation of full PS&E documents.

NJDOT – Route 1 & 9 Liberty Water Gap Trail Pedestrian Mobility Improvements
Newark, NJ | State Funded | $2M
Role: Prime | Status: Construction Completed

Pedestrian mobility improvements supporting the Liberty Water Gap Trail, including 4,000 feet of new sidewalk, retaining walls, guiderail modifications, signing and striping, and signal upgrades at two intersections. The project addressed sidewalk gaps within constrained right-of-way and required coordinated utility relocation and environmental permitting to advance construction.

FEDERALLY FUNDED SAFETY, TAP & SRTS EXPERIENCE

NJTPA – Broad Street & Bergen Place Safety Improvements
Red Bank, NJ | FHWA Funded | $2M
Role: Full Project Delivery | Status: Completed

Federally funded intersection and corridor safety improvements including ADA curb ramps, sidewalk upgrades, traffic signal modifications, drainage improvements, and utility coordination. M&S advanced the project from survey and environmental documentation through PS&E and construction support in accordance with NJDOT Local Aid and FHWA requirements.

Transportation Alternatives Set-Aside – Morris Canal Greenway Phase 3
Bloomfield Township, NJ | FHWA Funded | $1M
Role: Sub (Environmental) | Status: Final Design

Improvements to approximately 1,500 feet of shared-use trail including resurfacing, minor geometric adjustments, signage, lighting, landscaping, and seating areas. M&S provided environmental screening, NJDEP Flood Hazard Area permitting, coordination with NJDOT environmental staff, and regulatory support to advance the project through the TAP federal-aid process.

NJTPA – East Front Street (CR 620) Safety Improvements
Plainfield, NJ | FHWA Funded | $2M
Role: Full Project Delivery | Status: Completed

Traffic signal, pedestrian mobility, and safety improvements at multiple corridor intersections including new signals, ADA curb ramps, crosswalk upgrades, pavement reconstruction, inlet replacement for MS4 compliance, and flashing pedestrian beacons.

Safe Routes to School – High Bridge Downtown Connection Phase II
High Bridge, NJ | FHWA Funded | $1M
Role: Sub (Environmental) | Status: Prelim. Design

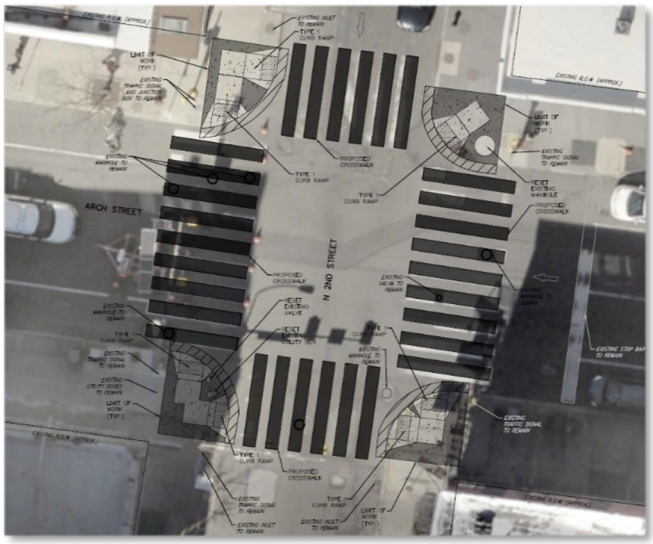
SRTS improvements creating a continuous sidewalk connection to local schools, including ADA upgrades, crosswalk enhancements, and RRFB installations. M&S is providing wetlands delineation and NJDEP permitting coordination during Preliminary Engineering.

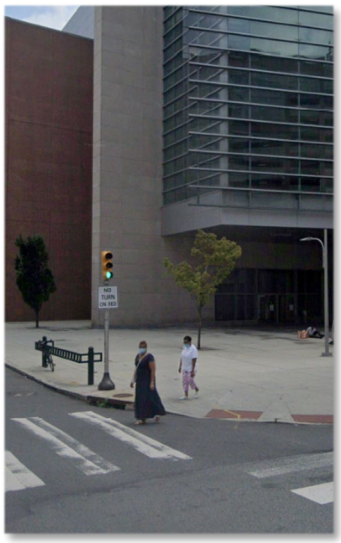
ADA & SHARED-USE PATH EXPERIENCE

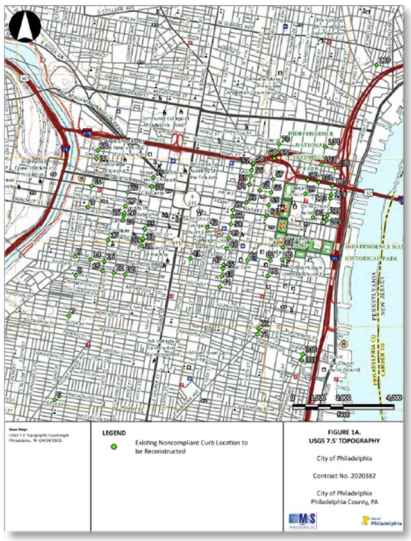
City of Philadelphia – ADA 3 Program (407 Curb Ramps)

Philadelphia, PA | FHWA Funded | $7M
Role: Lead for all Design and Environmental | Status: Preliminary Engineering

Corridor-wide ADA compliance program supporting environmental clearance and design for up to 407 curb ramps with complex urban constraints, including historic resources, narrow sidewalks, vaults, and utility conflicts. M&S led conceptual design, environmental screening, preparation of NEPA Categorical Exclusion documentation (CE Level 1b), wetlands and cultural resource coordination, detailed survey and base mapping, utility coordination, and advancement of 345 ramps through preliminary and final design under PennDOT and FHWA requirements.



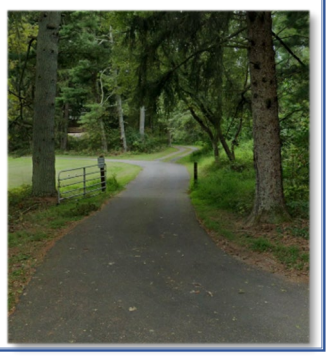




Hunterdon County – Multi-Use Path & Bridge Across Prescott Brook

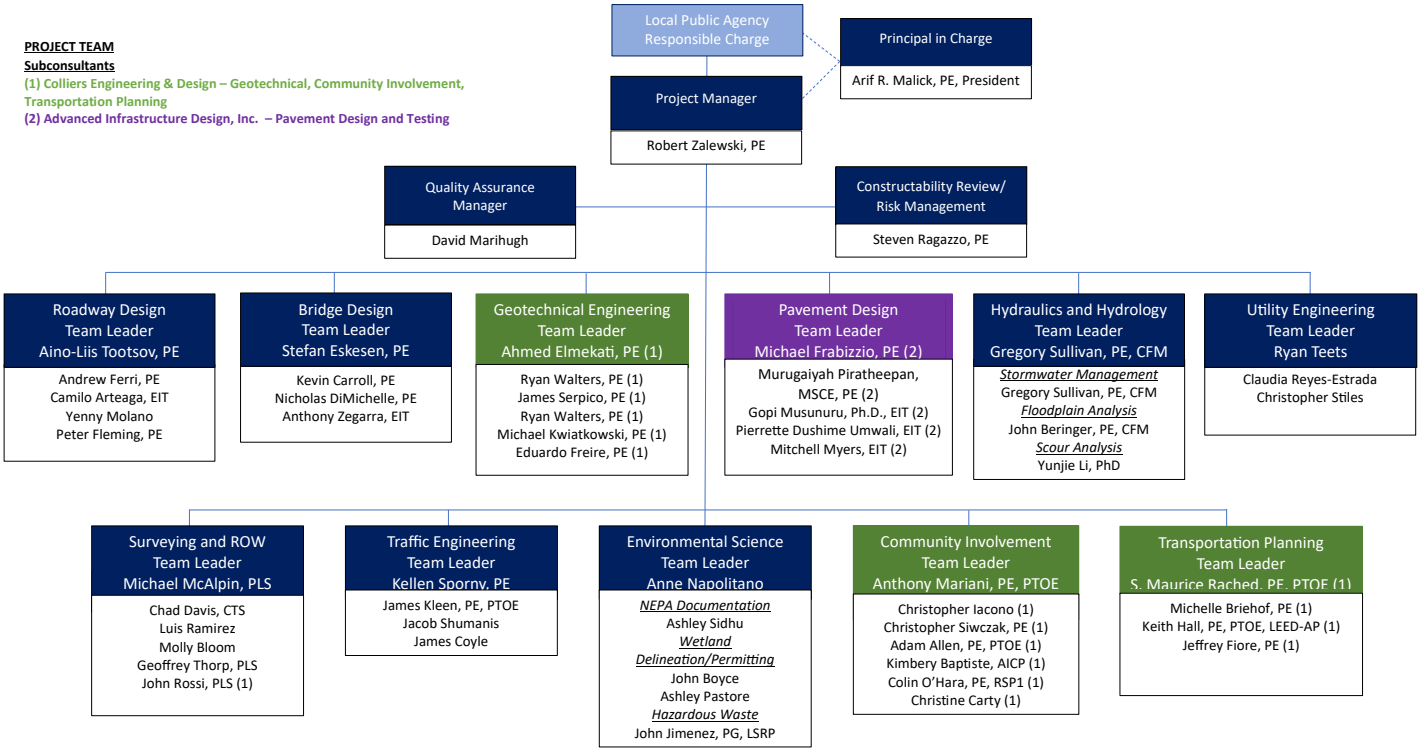
Clinton Township, NJ | $1M
Role: Prime | Status: Construction Complete

Design of a multi-use path and prefabricated pedestrian bridge crossing Prescott Brook within regulated wetlands and a Category-One stream corridor. M&S performed feasibility analysis, HEC-RAS hydraulic modeling, net fill analysis, NJDEP Freshwater Wetlands General Permit coordination, Flood Hazard Area Individual Permit modifications, riparian zone disturbance evaluation, and structural coordination for retaining abutments and bridge approaches. The project required multiple permit modifications and regulatory coordination to minimize impacts within a constrained floodplain setting.



Project Organization Chart
NJDOT TP-806 TRANSPORTATION ALTERNATIVES SET-ASIDE DESIGN ASSISTANCE PROGRAM 2025

PROJECT TEAM
Subconsultants
(1) Colliers Engineering & Design – Geotechnical, Community Involvement, Transportation Planning
(2) Advanced Infrastructure Design, Inc. – Pavement Design and Testing



KEY PERSONNEL

Robert Zalewski, PE – Project Manager
Leads delivery of pedestrian mobility and federally funded corridor improvement projects. Experienced in NJDOT Local Aid coordination, drainage/SWM design, ADA compliance, and PS&E preparation.

Arif R. Malick, PE, CME – Principal-in-Charge
Provides executive oversight and QA/QC for multidisciplinary transportation projects. Extensive experience with Municipal projects, NJDOT standards and federal-aid project delivery.

Aino-Liis Tootsov, PE – Roadway Lead
Responsible for roadway geometry, sidewalk and ADA design, cross-section development, utility coordination, and preparation of construction plans for corridor and intersection improvements.

Kellen Sporny, PE – Traffic Team Leader
Specializes in traffic signal design, safety analysis, MUTCD compliance, and multimodal corridor improvements.

Anne Napolitano – Environmental
Supports environmental screening, NJDEP permitting, and NEPA documentation for federally funded transportation projects.

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