PRELIMINARY ENGINEERING SCOPE AND COST PROPOSAL

for

Pleasantdale Streetscape Project
Pleasant Valley Way
(from 250 Feet South of Greenwood Avenue to Kenz Terrace)
NJDOT Transportation Alternatives Set-Aside Program 2025

Located in

Township of West Orange
Essex County, New Jersey

Prepared by

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I. PRELIMINARY ENGINEERING SCOPE OF WORK

292-26

TOWNSHIP OF WEST ORANGE
NJDOT Transportation Alternatives Set-Aside Program 2025
Pleasantdale Streetscape Project - Pleasant Valley Way
(from 250 Feet South of Greenwood Avenue to Kenz Terrace)
Township of West Orange, Essex County, New Jersey

September 3, 2026

PRELIMINARY ENGINEERING

PROJECT UNDERSTANDING & ASSUMPTIONS

Malick & Scherer, PC (M&S) will provide Preliminary Engineering (PE) services for the Pleasantdale Streetscape Project in the Township of West Orange, Essex County, New Jersey. The project is being advanced under the NJDOT Transportation Alternatives (TA) Set-Aside Design Assistance Program and will follow the NJDOT Capital Project Delivery Process and June 2026 Preliminary Engineering Activity Descriptions. The proposed improvements extend along Pleasant Valley Way (County Route 636) from approximately 250 feet south of Greenwood Avenue to Kenz Terrace.

The project will improve pedestrian safety, accessibility, connectivity, and the visual character of the Pleasantdale commercial corridor. Proposed improvements generally include ADA-compliant pedestrian facilities, decorative crosswalks, RRFBs, pedestrian-scale decorative lighting, landscaping, streetscape furnishings and amenities, bus shelters, and related roadway and pedestrian improvements. Preliminary Engineering will also evaluate potential roadway striping modifications, pedestrian refuge opportunities, and traffic signal improvements.

M&S will coordinate the Preliminary Engineering design with the Township, Essex County, NJDOT Local Aid, NJDOT Bureau of Environmental Program Resources (BEPR), utility owners, regulatory agencies, and project stakeholders. Preliminary Engineering will include the technical studies, environmental documentation, preliminary construction plans, cost estimate, utility coordination, and public/stakeholder involvement necessary to establish an approved design for advancement into Final Design.

Unless otherwise noted within individual activity descriptions, this proposal is based upon the following assumptions:

- PE services will be performed in accordance with the June 2026 NJDOT Preliminary Engineering Activity Descriptions and current NJDOT Local Aid procedures. Final Design and Construction Engineering services are not included.
- Available survey mapping, record plans, GIS information, utility records, and right-of-way information will be obtained from the Township, Essex County, utility owners, and other available sources to supplement field investigations.
- NJDOT BEPR will administer the Certified Categorical Exclusion process. M&S will prepare the technical studies and documentation identified herein to support the environmental document. Cultural resource investigations will be performed by Richard Grubb & Associates (RGA) under subcontract to M&S.
- Public involvement will include one (1) Public Information Center, one (1) meeting with the Downtown West Orange Alliance, two (2) meetings with the Township Historic Preservation Commission, and coordination with the Pedestrian Safety Advisory Board, Township, and Essex County, as necessary.

- The Township will review and approve property-owner notification/right-of-entry letters prior to field survey activities requiring access adjacent to private property.
- Utility impacts will be evaluated based on verified existing facilities and the preliminary design. Up to three (3) minor utility relocations are assumed, including preliminary coordination with affected utility owners. Adjustments to existing utility structures and appurtenances necessary to accommodate proposed improvements are also anticipated.
- Detailed utility relocation design, final relocation plans and agreements, and construction-phase utility coordination are not included in PE. Targeted subsurface utility engineering (SUE) consisting of up to five (5) test holes is included as described under Activity 3080.
- Right-of-way acquisition is not anticipated.
- Species-specific threatened and endangered species surveys, archaeological investigations, mitigation design, geotechnical investigations, and other services not specifically identified herein are not included unless subsequently authorized.

Township Progress Reviews

M&S will provide progress plans, exhibits, and other applicable design materials to the Township for review at key milestones during Preliminary Engineering, including the following:

- following completion of the Survey and Base Mapping, supplemented with applicable SUE information as it becomes available
- following completion of Activity 3130 – *Update preliminary Detour and Construction Staging Plans* and prior to preparation of the construction cost estimate under Activity 3135
- prior to the Public Information Center under Activity 3865. Materials for the Public Information Center will be provided to the Township a minimum of three (3) weeks prior to the meeting to allow for review and comment.

SCOPE OF WORK

UTILITY ENGINEERING

Activity 3035 – Prepare Utility Base Plans

M&S will review base mapping and observed surface utility features within and adjacent to the project limits to establish the base plans for the utility verification request. The plans will be developed from the project survey, field-observed features, and any applicable mark-outs observed in the field. This task also includes a field visit to create a photo log to verify changes to the existing utilities.

Activity 3045 – Send Utility Verification Request Letter

M&S will prepare and distribute Utility Verification Request Letters and Utility Base Plans to seven (7) utility owners licensed to operate within the project limits. Utility owners will be requested to verify existing facilities; provide available record or as-built information; identify abandoned facilities, planned improvements, easements, and known operational constraints; and provide corrections or supplemental information, as applicable.

M&S will review utility-owner responses and coordinate with the utility owners to clarify discrepancies between available records, field-observed facilities, project survey information, and utility-owner information to the extent practical during Preliminary Engineering. Verified information will be incorporated into the Utility Base Plans, as appropriate.

The Utility Base Plans will be used to identify potential conflicts between existing utilities and the proposed roadway, sidewalk, ADA, drainage, traffic, lighting, landscape, and streetscape improvements. Potential conflicts will be advanced for utility verification and coordination under subsequent activities.

Where the precise horizontal and vertical locations of underground utilities cannot be established from available information and additional information is necessary to evaluate a specific potential conflict, targeted SUE investigations may be performed under Activity 3080. Detailed utility relocation design is not included in this activity.

Activity 3055 – Identify and Analyze Utility Risks

M&S will review the preliminary design and verified utility information to identify potential utility conflicts and evaluate risks to project cost, schedule, constructability, and design. M&S will coordinate with affected utility owners to determine whether conflicts can be avoided or minimized through design refinements and, where necessary, establish preliminary utility accommodation requirements for advancement during Final Design.

For purposes of this proposal, up to three (3) utility relocations and up to three (3) utilities with surface features requiring adjustment to accommodate proposed grades and improvements are assumed. M&S will perform preliminary coordination with the affected utility owners to establish the anticipated relocation requirements, including applicable clearances, access and operational constraints, sequencing considerations, and anticipated lead times. M&S will also identify existing manholes, valve boxes, handholes, utility castings, and similar facilities requiring adjustment to accommodate proposed improvements and grades.

M&S Utility Team will assist the Lighting Design Team in coordinating with PSE&G regarding the conceptual pedestrian-scale decorative lighting layout and preliminary service requirements. PSE&G is anticipated to develop the detailed lighting layout based on conceptual fixture locations established during Preliminary Engineering.

It is assumed that five (5) utility coordination meetings will be required for the three (3) utilities with potential conflicts, consisting of three (3) meetings with PSE&G and two (2) meetings with the other affected utilities.

Unresolved utility conflicts and anticipated relocation requirements will be documented for advancement during Final Design. Final utility relocation design, utility-specific construction plans and specifications, utility agreements, and incorporation of final utility relocation designs into the Contract Documents are not included in Preliminary Engineering.

Activity 3080 – Conduct Subsurface Utility Engineering

M&S will perform Subsurface Utility Engineering (SUE) at selected locations to verify the horizontal and vertical location of existing subsurface utilities where necessary to evaluate potential conflicts with the proposed improvements. M&S will identify and prepare a plan depicting the proposed test hole locations and coordinate the SUE investigation with a qualified SUE contractor.

For purposes of this proposal, up to five (5) test holes are assumed. The SUE contractor will perform the test holes and prepare a SUE Test Hole Report documenting the results. M&S will review the results, update the existing utility mapping as appropriate, and incorporate the verified utility information.

Activity 3985 - Update Utility Risk Assessment Plan

M&S will prepare and update the Utility Risk Assessment Plan based on information received from the utility companies, the results of the SUE investigations performed under Activity 3080, and the advancing Preliminary Engineering design. The updated plan will be used to document and address

identified utility risks and support preparation of the preliminary roadway and construction staging plans. M&S will inform the PM of any new project-specific utility risks or changes to previously identified utility risks.

SURVEY & BASE MAPPING

Malick & Scherer, P.C. (M&S) will perform conventional ground survey and base mapping along Pleasant Valley Way. A temporary shadow vehicle and/or local police/flagger may be required to protect the survey crew and maintain traffic. For this proposal, temporary lane interruptions, if required, are assumed to be permitted by the County and Township between 9:00 AM and 3:00 PM, Monday through Friday.

Survey limits will extend along Pleasant Valley Way from 300 feet south of Greenwood Avenue to 100 feet north of Kenz Terrace, up to 10 feet beyond the existing right-of-way, and approximately 100 feet along intersecting side streets from the Pleasant Valley Way centerline. Survey will include topographic, drainage, and sanitary sewer features, including pipe sizes, materials, and invert elevations where accessible.

Activity 3015 – Prepare Control Survey Report
M&S will prepare a Primary Survey Report in accordance with applicable sections of the Procedures Manual and Article 44 of the Consultant Contract, for submission to the County/Township if required. The report will document monuments and benchmarks used and established; NJ State Plane Coordinate System, NAD 1983 and NAVD 1988 references; survey equipment and calibration; survey procedures; software used to process and adjust observations; and data computations and results.

Activity 3020 – Conduct Topographic Survey
M&S will perform conventional field topographic survey and develop English-unit digital base mapping compatible with AutoCAD Civil 3D. Survey data will be processed into a Digital Terrain Model (DTM), and an ASCII point file will be prepared.

Mobilization and Document Research
M&S will mobilize a field crew and request relevant existing plans and documents from the County/Township.

Permit and MPT Coordination
M&S will coordinate roadway permit requirements and Maintenance and Protection of Traffic (MPT) services and/or local police for temporary lane interruptions. Up to three days of MPT/Police are included, as most survey work is anticipated behind the curb.

Primary Control
Horizontal and vertical control will be established within the project limits based on GPS observations and tied to NJ State Plane NAD 83 and NAVD 88 datums. Primary control points will include three swing ties, benchmarks will be established at approximately 500-foot intervals as required, and tie sheets will be prepared.

Ground Survey
Conventional survey methods will be used to obtain roadway cross sections at approximately 50-foot intervals and locate topographic features, including visible utility hardware, pole numbers, overhead wires, hydrants, manholes, catch basins, valves, and similar features. Buildings within the survey limits will be located where possible, including building lines/corners, doorway thresholds, finished floor elevations, landings, and stoops. Sidewalk joints are excluded. Significant grade breaks and curb depressions will be located.

Drainage & Sanitary Sewer Survey

M&S will survey up to 40 drainage/sanitary structures and obtain locations, grate/rim elevations, and invert elevations where accessible.

ADA Curb Ramp Survey

Detailed conventional survey will be performed for up to 10 corner locations on an approximate 5-foot grid extending up to 15 feet beyond the PT of each identified curb ramp.

Activity 3025 – Prepare Base Maps

Base Mapping and DTM

Base mapping will incorporate surveyed planimetrics and topography and be prepared in AutoCAD Civil 3D consistent with 1" = 20' mapping specifications. Features will be assigned appropriate layers and attributes and edited in three dimensions. The DTM will incorporate pertinent field survey information, and 1-foot contours will be generated. Survey work will be subject to M&S QA/QC procedures.

Existing Baseline

The existing roadway baseline will be established from available documents and surveyed features such as ROW markers, curb lines, and other identifiable points. It is assumed the County/Township will provide available alignment plans, parcel plans, and/or as-builts showing existing baseline and geometry.

Deed Mosaic and Research

Current cover deeds for up to 36 lots abutting Pleasant Valley Way will be obtained, reviewed, and plotted. M&S will prepare a deed mosaic and property owner listing. A complete title search will not be performed.

Existing ROW

Although ROW impacts are not anticipated, M&S will develop existing ROW lines using deeds, available County/Township plans, and tax maps under a normal standard of analysis. It is assumed existing ROW plans will be provided by the County/Township. Activities 3110 - Prepare ROW Report, 3115 - Initiate ROW Impact Plan, and 3120 - Hold ROW Kickoff Meeting are excluded.

ENGINEERING DESIGN

Activity 3006 – Prepare & Submit PE Complete Streets Checklist

M&S will prepare the NJDOT Preliminary Engineering Complete Streets Checklist documenting applicable accommodations for pedestrians, bicyclists, transit users, persons with disabilities, and other roadway users. The checklist will be coordinated with the Preliminary Engineering design and submitted to NJDOT Local Aid for review. M&S will address applicable review comments and revise the checklist as necessary to obtain acceptance.

Activity 3012 – Develop Landscape Architectural Design

M&S will develop the Preliminary Engineering landscape and streetscape design, including proposed street trees, plantings, planters, benches, bicycle racks, trash receptacles, bus shelters, and other proposed streetscape amenities. The design will consider existing conditions, pedestrian circulation, visibility, utilities, drainage, maintenance requirements, adjacent development, and input from the Township and project stakeholders. M&S will coordinate with the Township Forester regarding the selection of species and the locations of proposed street trees, plantings, and landscape areas and will incorporate applicable comments into the Preliminary Engineering design.

M&S will develop the landscape and streetscape design to a Preliminary Engineering level sufficient to establish the proposed locations, types, materials, and general character of the improvements for

incorporation into the Preliminary Roadway Plans and Construction Cost Estimate. Detailed planting plans, construction details, final quantities, and final specifications will be developed during Final Design.

Activity 3030 – Prepare Horizontal & Vertical Geometry

M&S will develop the preliminary horizontal and vertical geometry for the proposed streetscape improvements based upon the approved survey base mapping, existing roadway characteristics, field investigations, and the project goals. The preliminary geometry will establish the framework for the proposed roadway, sidewalk, streetscape, and pedestrian improvements while minimizing impacts to existing infrastructure, utilities, adjacent properties, and traffic operations.

The preliminary geometric design will include evaluation of roadway cross sections, sidewalk alignments, curb alignments, curb ramp locations, pedestrian refuge opportunities, driveway transitions, streetscape amenity locations, and ADA-compliant pedestrian facilities. Existing roadway widths will be evaluated to determine whether lane width adjustments can improve pedestrian safety, including opportunities to provide pedestrian refuge areas at the Greenwood Avenue crossing while maintaining acceptable traffic operations.

The proposed geometry will incorporate the conceptual locations of decorative crosswalks, RRFB crossings, pedestrian-scale lighting, landscaping, street furnishings, bus shelters, bicycle racks, and other streetscape elements. Proposed grading will be coordinated with existing drainage patterns to minimize impacts to adjacent properties while maintaining ADA accessibility requirements throughout the project corridor.

The preliminary geometric design will provide the basis for roadway layout, utility coordination, traffic engineering, environmental documentation, drainage design, construction staging, and preparation of the preliminary construction plans.

Activity 3070 – Prepare Preliminary Roadway Plans

M&S will prepare Preliminary Roadway Plans illustrating the proposed improvements necessary to support environmental documentation, utility coordination, stakeholder review, and advancement into Final Design. The plans will be developed utilizing the approved survey base mapping, preliminary roadway geometry, landscape and streetscape design, environmental constraints, traffic engineering recommendations, and utility coordination completed under previous activities.

The Preliminary Roadway Plans will depict the conceptual layout of the proposed streetscape improvements throughout the project corridor, including roadway improvements, sidewalk reconstruction, ADA-compliant curb ramps, decorative crosswalks, pedestrian refuge opportunities, streetscape amenities, landscaping, pedestrian-scale lighting, RRFB crossings, traffic signal improvements, bus shelters, bicycle racks, benches, trash receptacles, and other proposed features. Existing and proposed right-of-way, utility facilities, drainage improvements, and environmental constraints will be incorporated as appropriate to support project development.

Roadway plans will be developed in sufficient detail to evaluate constructability, utility impacts, environmental commitments, maintenance of traffic, stakeholder comments, and preliminary construction quantities. Throughout plan development, M&S will coordinate with the Township, Essex County, NJDOT, and project stakeholders to refine the proposed improvements and incorporate comments received during Preliminary Engineering.

The Preliminary Roadway Plans are anticipated to include the following:

- Title Sheet and Key Map
- Typical Sections
- Construction Plans

- Traffic Control and Staging Plans
- Traffic Striping and Signing Plans
- Electrical Plans
- Landscape Plans
- Construction Details

The Preliminary Roadway Plans will provide the basis for preparation of the Construction Cost Estimate and development of the Final Design scope.

Activity 3085 – Prepare Preliminary Drainage Design
M&S will prepare a preliminary drainage design to accommodate the proposed improvements while generally maintaining existing drainage patterns. The design will evaluate impacts to existing drainage facilities and identify localized modifications, which may include adjustment or relocation of inlets, modification of inlet types, short storm sewer extensions or replacements, and adjustment of structure elevations. Proposed grading will be coordinated with drainage and ADA requirements.

Based on the anticipated improvements, the project is assumed not to constitute a Major Development under the NJDEP Stormwater Management Rules. Applicable NJDEP MS4 requirements will be incorporated into the design, including approved storm drain inlet protection measures where required. Evaluation of the existing storm drainage system for hydraulic capacity, existing flooding conditions, or existing drainage deficiencies is not included.

Activity 3090 – Determine Traffic Engineering Facility Locations
M&S will evaluate the existing traffic control devices, pedestrian facilities, signing, pavement markings, traffic signals, roadway lighting, and pedestrian crossing treatments throughout the project corridor to determine the preliminary locations and conceptual design of proposed traffic engineering improvements.

Traffic engineering services will include collection of existing traffic data, traffic operational analyses, and conceptual design of pedestrian safety improvements. Traffic counts will be collected to support evaluation of pedestrian crossing treatments, RRFB warrants, signal timing refinements, and overall corridor operations.

Data collection will occur as follows:

ATR counts will be recorded for a continuous 24-hour period for 7 days in both travel directions, on a non-holiday week during the school year. ATRs will collect volume, speed and vehicle classification data, provided in 15-minute increments. ATR counts will be collected at the following nine (9) locations:

- Pleasant Valley Way at Greenwood Avenue (3 Legs)
- Pleasant Valley Way at Marmon Terrace (4 Legs)
- Pleasant Valley Way at Eagle Rock Avenue (2 legs – Eagle Rock Avenue)

Intersection turning movement counts (TMCs) will be collected during one weekday (Tuesday, Wednesday or Thursday) and Saturday while school is in session in the Spring or Fall when local traffic generators have the most foot traffic. Data will be collected using MioVision count units. Vehicle and pedestrian data will be processed for the Weekday AM, Midday, PM, and Saturday peak periods. TMC counts will occur at the following locations:

- Pleasant Valley Way at Greenwood Avenue
- Pleasant Valley Way at Marmon Terrace
- Pleasant Valley Way at Eagle Rock Avenue

Traffic analyses will be performed utilizing Synchro traffic engineering software to evaluate existing and future operating conditions associated with the proposed improvements. Future traffic analysis will consider the following peak hour periods:

- Weekday AM Peak Hour
- Weekday Midday Peak Hour
- Weekday PM Peak Hour
- Saturday Peak Hour

Each time period will be analyzed under the following conditions:

- Existing Conditions
- Future No-Build (With No Proposed RRFB crossings and Existing Lane Geometry and Signal Timings)
- Future Build (With Proposed RRFBs and Signal Timing Adjustments (if needed) at Eagle Rock Avenue)

Synchro model simulations (SimTraffic) will be run for one (1) one-hour period. The Synchro and simulation results will be utilized to report existing and future condition Level of Service (LOS), delay, and queues. It is anticipated that two iterations of the Synchro model may need to be evaluated to determine if the proposed traffic signal timings to a level acceptable by the County. M&S will prepare tables to summarize the results of the traffic analysis.

Based upon the results of the traffic analyses and field investigations, M&S will prepare preliminary layouts for the proposed RRFB installations, traffic signal modifications, signing and striping improvements, and pedestrian crossing enhancements. Push button locations will be reviewed for MUTCD compliance. The traffic signal timing directive will be developed for weekday peak, weekday non-peak, and weekend time periods (or as needed based on the existing timing plans). A review of pedestrian clearance intervals will be conducted, and new pedestrian heads may be recommended as needed.

Existing roadway geometry will be evaluated to determine opportunities to improve pedestrian safety, including potential lane width modifications and pedestrian refuge areas near the Greenwood Avenue crossing, while maintaining acceptable traffic operations.

A sign inventory within the project limits will be prepared using street view webpages and field observations. Each sign will be documented based on MUTCD and NJDOT sign designations, size, condition, compliance and photographed. Non-standard signs will also be inventoried. Condition of existing pavement markings will be assessed.

Preliminary Plans showing the existing and proposed layout of roadway signs and pavement markings will be developed in accordance with NJDOT Standard Details and guidance from the FHWA MUTCD.

The existing lane geometry and marking types are anticipated to remain, as appropriate. Lane geometry modifications will be assessed at the Greenwood Ave intersection with the goal of gaining enough space for a center raised median to act as a pedestrian refuge area. This would result in the travel lanes in each direction being shifted toward the outside curb in each direction.

Preliminary lighting design will include evaluation of existing lighting at each of the above-mentioned intersections, conceptual pedestrian-scale decorative lighting, preliminary lighting layouts, lighting warrant evaluations, and coordination with PSE&G regarding proposed lighting infrastructure. Preliminary photometric analyses and lighting calculations will be performed using Visual Lighting Design

Software, as appropriate, to establish conceptual fixture locations and spacing consistent with NJDOT requirements.

Traffic engineering recommendations developed during this activity will be incorporated into the Preliminary Roadway Plans and Construction Cost Estimate.

Assumptions:

- Trip generation or volume distribution for future developments will not be performed.
- No Traffic Control will be required to perform the set-up or takedown of the count equipment.
- A Traffic Impact Report is not required.
- No temporary signal design will be required.
- No geotechnical borings, investigations and reporting will be performed under PE at new traffic signal locations. It is assumed geotechnical activities for signal pole foundations will be performed in FD.
- Volume diagrams will not be prepared. Raw data sheets will be used for the analysis/warrants.
- Business driveway traffic data will not be collected.
- No signal operations or equipment modifications are proposed at Eagle Rock Ave except for potential timing refinements based on current traffic conditions, and installing microwave pedestrian detection devices.
- A County signal plan may be used as the go-by if directed by the Township.
- M&S will coordinate with NJDOT/County to determine preferred luminaire type, manufacturer, and model number.

Activity 3130 – Update Preliminary Detour and Construction Staging Plans

M&S will develop preliminary construction staging and maintenance of traffic concepts to facilitate construction while maintaining safe and efficient access for motorists, pedestrians, transit users, emergency responders, businesses, and adjacent property owners.

Construction staging concepts will evaluate the sequence of proposed improvements, pedestrian detours, temporary sidewalk accommodations, maintenance of access to commercial properties and residences, coordination with utility construction, and opportunities to minimize traffic disruptions throughout construction.

The preliminary staging concepts will identify anticipated construction phases, temporary traffic control requirements, business driveway access needs, and maintenance of pedestrian accessibility during construction. Potential impacts to bus stops, intersections, and pedestrian crossings will also be evaluated. Construction staging assumptions developed during this activity will be reflected in the Preliminary Roadway Plans and Construction Cost Estimate.

Activity 3135 – Prepare Construction Cost Estimate

M&S will prepare and update a Preliminary Engineering Construction Cost Estimate based on the Preliminary Roadway Plans and anticipated construction quantities. Unit prices will be based on current NJDOT bid-price information and other appropriate cost data, as necessary. The estimate will include roadway, pedestrian and ADA improvements, drainage, traffic signal, signing and striping, lighting, landscaping and streetscape amenities, utility-related work, maintenance and protection of traffic, and other anticipated construction items. Appropriate contingencies and allowances will be included for items not fully defined during Preliminary Engineering.

ENVIRONMENTAL STUDIES & PUBLIC INVOLVEMENT

Activity 3300 – Initiate Cultural Resources (Section 106) Process
Richard Grubb & Associates (RGA), as a subconsultant to M&S and under M&S' supervision, will provide cultural resources services necessary to initiate the Section 106 consultation process. RGA will review available information, identify known historic properties and archaeological resources within or adjacent to the project area, assist in establishing the Area of Potential Effects (APE), and prepare applicable cultural resources documentation and recommendations in accordance with NJDOT and Section 106 requirements.

RGA will coordinate its findings with M&S for incorporation into the environmental documentation and Preliminary Engineering design. M&S will manage and coordinate RGA's services and provide available project plans, mapping, and design information necessary to support the cultural resources review.

Activity 3305 – Conduct Cultural Resources Survey
RGA, as a subconsultant to M&S and under M&S' supervision, will conduct a Cultural Resources Survey to comply with Section 106 of the National Historic Preservation Act of 1966, as amended, and will conform to all requirements of the NJDOT and NJHPO for such studies. The initial survey will include an Intensive-level historic architectural survey. Background research will be performed using available and accessible NJHPO files, New Jersey State Library, and local repositories, if feasible. Pertinent planning and regulatory surveys at the NJHPO will be reviewed. Historic atlases and maps will be reviewed. RGA will use the NJHPO's GIS data for information on known historic properties proximate to the project area. RGA will also review internal files for information on prior cultural resources surveys. An archaeological survey is not included.

Intensive-level Historic Architectural Survey

The Intensive-level historic architectural survey will determine if previously identified cultural resources and any unidentified significant buildings, historic districts, and structures of greater than 50 years in age are present within the APE-Architecture and will be impacted by the project. Preliminary background research suggests there are approximately 11 previously unidentified and/or unevaluated historic resources within a probable APE-Architecture, consisting primarily of early to mid-twentieth century dwellings and commercial properties. These resources include Block 176.05, Lot 10; Block 176.03, Lots 16 and 17; Block 152.22, Lots 142.01, 142.02, 142.03, and 142.05; Block 154.06, Lots 13, 14, 15, and 18. RGA does not anticipate that all 11 resources will require Intensive-level survey. Important considerations will be if the architectural resource possesses the requisite historical significance and integrity for listing in the NRHP and whether the proposed undertaking has the potential to impact the resource's ability to meet the NRHP Criteria. Project effects will be assessed on all identified historic properties.

Activity 3310 – Prepare Cultural Resources Survey Report
RGA, as a subconsultant to M&S and under M&S' supervision, will prepare a Cultural Resources Survey Report covering historic architecture. The report will describe the survey and identification/evaluation of resources associated with the project and will follow current guidelines prepared by the NJDOT and the NJHPO. The report will summarize the results of Activity 3305 and will provide the basis for consultation with the NJHPO.

Activity 3320 – Address Comments on Cultural Resources Survey Report
RGA, as a subconsultant to M&S and under M&S' supervision, will incorporate comments received from the NJDOT into a final Cultural Resources Survey report to be submitted to the NJHPO.

Activity 3765 – Conduct Ecology Study

M&S will evaluate the site's existing conditions and potential impacts of the project to natural resources. This includes surface water quality, upland forests, soils, wetlands, waterbodies including aquatic species and habitats, floodplains and flooding, riparian zones, terrestrial species and habitats, and threatened and endangered species. A preliminary review of NJDEP geospatial data on-line mapping indicates that there are no mapped waters or wetlands in the project area. M&S will conduct field reconnaissance to confirm the presence of regulated features (1 day/2 people).

M&S will begin initial coordination with the appropriate regulatory agencies having jurisdiction over resources that will be potentially affected, including US Fish & Wildlife Service and NJDEP Natural Heritage Program (NHP). An Environmental Screening Report will be prepared to identify potential environmental constraints and support the Categorical Exclusion Document (CED). NJDOT BEPR will lead all federal agency consultations with M&S providing the necessary technical support, if required.

Activity 3840 – Conduct Hazardous Waste Study

Several historic and active NJDEP Site Remediation Program cases are present along the project corridor. M&S will evaluate the project's potential involvement with known or suspected contaminated waste sites through the review of available data including an environmental database search (EDR), review of historic aerials and land use, Sanborn maps, and geospatial data. Additionally, M&S will research and inquire from NJDEP any known case files within the vicinity of the project. Site reconnaissance will be performed to visually identify recognized environmental concerns and hazardous materials within the vicinity of the project. The results of the Hazardous Waste Study will be presented in a memorandum for use in completing the CED.

Activity 3865 – Hold Public Information Center

Colliers Engineering & Design (Colliers) will organize, coordinate and facilitate one (1) Public Information Center (PIC) during the Preliminary Engineering phase in accordance with NJDOT public involvement requirements and in coordination with M&S, the Township, and NJDOT.

The Public Information Center will be conducted at a Township-provided venue and will present the proposed conceptual improvements to the public, elected officials, stakeholders, businesses, and adjacent property owners. M&S will provide the applicable preliminary design information and technical exhibits. Colliers will prepare the public presentation materials, meeting handouts, sign-in sheets, and meeting advertisements and coordinate meeting logistics with the Township and NJDOT.

Following the meeting, Colliers will prepare meeting minutes summarizing the public comments received and document responses to comments for incorporation into the environmental documentation and project development process. Public input will be evaluated to determine whether refinements to the preliminary design are warranted.

Activity 3874 – Execute PE Public Involvement Action Plan (PIAP)

Colliers, as a subconsultant to M&S and under M&S' supervision, will coordinate stakeholder outreach during Preliminary Engineering. Stakeholder coordination is anticipated to include:

- One (1) meeting with the Downtown West Orange Alliance.
- Two (2) meetings with the Township Historic Preservation Commission.
- Coordination with the Pedestrian Safety Advisory Board, as appropriate.
- Coordination with Essex County, as appropriate.

Colliers will coordinate with M&S and the Township to schedule the meetings; prepare appropriate meeting materials using technical information provided by M&S; participate in and facilitate the meetings; and document substantive comments, decisions, and action items. Colliers will coordinate

stakeholder comments with M&S for consideration in the Preliminary Engineering design and environmental documentation and will assist the Township in obtaining the anticipated Historic Preservation Commission Resolution of Support.

Activity 3890 – Prepare Certified Categorical Exclusion (CCE) Document
It is anticipated that the project meets the Programmatic Agreement for Approval of Certain Categorical Exclusions between the FHWA and NJDOT. M&S will assist NJDOT BEPR with preparation of the Certified Categorical Exclusion Document (CCED) by preparing Section I. *General Information* and Section II. *Project Description* and environmental constraints mapping to support the CCED.

PRELIMINARY ENGINEERING DOCUMENTATION

Activity 3160 – Prepare Draft Preliminary Engineering Report
M&S will prepare the Draft Preliminary Engineering (PE) Report documenting the engineering, environmental, utility, and public involvement activities completed during Preliminary Engineering and the resulting design decisions and recommendations. The report will be prepared in accordance with NJDOT requirements and will include or reference the applicable environmental documentation, Preliminary Roadway Plans, technical studies and memoranda, Construction Cost Estimate, stakeholder coordination documentation, and other required supporting information for NJDOT review and advancement of the project into Final Design.

Activity 3165 – Finalize Project Plan
Following receipt of Preliminary Engineering review comments, M&S will coordinate with the Township and NJDOT to address applicable comments and revise the Preliminary Roadway Plans and supporting PE documentation, as appropriate. The finalized plans will incorporate accepted design refinements, stakeholder input, environmental commitments, utility coordination requirements, and other applicable revisions and will establish the approved Project Plan for advancement into Final Design.

Activity 3185 – Develop Final Design Public Involvement Action Plan
Colliers, as a subconsultant to M&S and under M&S' supervision, will prepare the Final Design Public Involvement Action Plan (PIAP) based on the public and stakeholder coordination completed during Preliminary Engineering. The PIAP will identify anticipated Final Design outreach activities, stakeholders, communication methods, project milestones, and opportunities for public participation and will address applicable comments and commitments developed during Preliminary Engineering. Colliers will submit the draft PIAP to M&S for review and address comments necessary to finalize the document.

II. COST PROPOSAL

PRELIMINARY ENGINEERING COST PROPOSAL

TOWNSHIP OF WEST ORANGE
NJDOT Transportation Alternatives Set-Aside Program 2025
Pleasantdale Streetscape Project - Pleasant Valley Way
(from 250 Feet South of Greenwood Avenue to Kenz Terrace)
Township of West Orange, Essex County, New Jersey

Malick & Scherer, P.C.

8/20/2026

TASK #	TASK NAME / TITLE	Sr. Professional PVII	Project Manager PVI	Principal Engr/Surveyor PV	Project Engineer PIV	Engineer PIII	Engineer PII	Engineer PI	Senior Designer ETIV	Survey Crew Chief/ Sr Tech ETIII	Instrument Operator / Tech ETII	Research Clerk	TOTAL HOURS
3006	Prepare & Submit PE Complete Streets Checklist		2.00		8.00	12.00							**22.00**
3012	Develop Landscape Architectural Design	1.00	8.00		16.00	24.00	32.00						**81.00**
3015	Prepare Control Survey Report	1.00	1.00	8.00					16.00				**26.00**
3020	Conduct Topographic Survey		17.00	38.00					52.00	130.00	130.00	12.00	**379.00**
3025	Prepare Base Maps	1.00	40.00	96.00					192.00	10.00	10.00	16.00	**365.00**
3030	Prepare Horizontal & Vertical Geometry	1.00	2.00		8.00	16.00	8.00						**35.00**
3035	Prepare Utility Base Plans	1.00	2.00	10.00					12.00				**25.00**
3045	Send Utility Verification Request Letter		4.00	20.00					21.00				**45.00**
3055	Conduct Utility Risk Analysis		10.00	32.00					48.00				**90.00**
3070	Prepare Preliminary Roadway Plans	2.00	12.00		36.00	26.00	104.00						**180.00**
3080	Conduct Subsurface Utility Engineering		2.00	6.00					16.00				**24.00**
3085	Prepare Preliminary Drainage Design		8.00		16.00		24.00						**48.00**
3090	Determine Traffic Engineering Facility Locations	2.00	40.00		94.00	102.00							**238.00**
3130	Update Preliminary Detour and Construction Staging Plans	1.00	2.00		8.00	4.00	24.00						**39.00**
3135	Prepare Construction Cost Estimate	2.00	6.00		16.00		24.00						**48.00**
3160	Prepare Draft Preliminary Engineering Report	1.00	8.00	16.00	8.00	8.00	16.00						**57.00**
3165	Finalize Project Plan		4.00	8.00	8.00	16.00	8.00						**44.00**
3185	Develop FD Public Involvement Action Plan	2.00	4.00										**6.00**
3300	Initiate Cultural Resources (Section 106) Process		2.00										**2.00**
3305	Conduct CR Survey		1.00			2.00							**3.00**
3310	Prepare CR Survey Report		1.00			2.00							**3.00**
3320	Address Comments on CR Survey Report		1.00			1.00							**2.00**
3765	Conduct Ecology Study		12.00			32.00		62.00					**106.00**
3840	Conduct Hazardous Waste Study		10.00			40.00		64.00					**114.00**
3865	Hold Public Information Center		16.00		16.00								**32.00**
3874	Execute PE Public Involvement Action Plan (PIAP)		24.00		16.00								**40.00**
3890	Prepare Certified Categorical Exclusion (CCE) Document		3.00			9.00							**12.00**
3985	Update Utility Risk Assessment Plan	1.00	3.00	10.00					17.00				**31.00**
	TOTAL MANHOURS	**16.00**	**245.00**	**244.00**	**250.00**	**294.00**	**240.00**	**126.00**	**374.00**	**140.00**	**140.00**	**28.00**	**2097.00**
	DIRECT RATE	$ 122.50	$ 99.60	$ 90.00	$ 73.60	$ 65.50	$ 50.44	$ 36.94	$ 58.75	$ 47.17	$ 38.07	$ 39.50	
	TOTAL DIRECT SALARY	**$ 1,960.00**	**$ 24,402.00**	**$ 21,960.00**	**$ 18,400.00**	**$ 19,257.00**	**$ 12,105.60**	**$ 4,654.44**	**$ 21,972.50**	**$ 6,603.80**	**$ 5,329.80**	**$ 1,106.00**	**$ 137,751.14**

OUT-OF-POCKET EXPENSES	
Deed Packets & Maps	$ 540.00
MPT (Shoulder Closures)	$ 4,500.00
Traffic Count Processing	$ 1,575.00
Natural Heritage Program Data	$ 70.00
Environmental Data (EDR)	$ 800.00
Subsurface Utility Engineering (SUE)	$ 15,000.00
	$ -
	$ -
	$ -
	$ -
Total Expense	**$ 22,485.00**

SUBCONULTANTS	
Richard Grubb & Associates	$ 54,687.46
Colliers Engineering & Design	$ 32,997.41
	$ -
Total Cost for Subconsultants	$ 87,684.87

SUBTOTAL DIRECT LABOR COSTS	$ 137,751.14
OVERHEAD BASED ON NJDOT APPROVED OVERHEAD (99.88%)	$ 137,585.84
FIXED FEE (22.5% X DIRECT LABOR COSTS)	$ 30,994.01
PROFESSIONAL FEE	$ 306,330.99
OUT-OF-POCKET EXPENSES	$ 22,485.00
TOTAL SUBCONSULTANT COST	$ 87,684.87
TOTAL COST	**$ 416,500.86**

FIXED FEE CALCULATION

PROJECT:	2025 TAP - W Orange Pleasantdale Streescape Project - PE
CONSULTANT:	Malick & Scherer, P.C.
AGREEMENT OR CAM NO.	TP-806
PREPARED BY:	R. Zalewski
DATE:	6/20/2026

EVALUATE PROJECT SPECIFICS:

Directions:
Prime Consultant will use Total Project Design Cost (or Task Order Design Cost) for the SIZE criteria
Each Subconsultant will assign points for SIZE, COMPLEXITY, DURATION, & DEGREE OF RISK based on its specific project tasks.

SPECIFICS	CRITERIA	POINTS	RATING
SIZE:	*SMALL* - Total Fee (Project Design Cost) < $1,250,000	15	**15**
	LARGE - Total Fee (Project Design Cost) > $1,250,000	20	
COMPLEXITY:	*SIMPLE* - Limited Scope of Work; Deck Patching, Resurfacing, Restoration, Inspection, Concept Development Services	10	**15**
	STANDARD - Moderate Scope; Rehabilitation, New, or Reconstruction	15	
	COMPLEX - Multi-disciplined, Highly Specialized, or Major Unusual	20	
DURATION:	*STANDARD* - Appropriate Schedule	15	**15**
	AGGRESSIVE - Designers Schedule Reduced > 10 %	20	
DEGREE OF RISK:	*LEVEL 1* - Low Risk of Claims; Studies, Surveys, Landscape, Inspections	20	**30**
	LEVEL 2 - Average Risk of Claims; Standard Complexity or Level 1 with High Public Exposure	30	
	LEVEL 3 - High Risk of Claims; Hazardous, Experimental, or Bonus/Penalty Clauses	40	
		TOTAL RATING =	**75**

CALCULATE FEE:

PROJECT SPECIFICS FACTOR (Total Rating /100) =	**0.75**	
FEE FACTOR (Project Specifics Factor x 0.30) =	**0.225**	
DIRECT LABOR COSTS	**$**	**137,751.14**
TOTAL FEE (Direct Labor Costs x Fee Factor) =	**$**	**30,994**

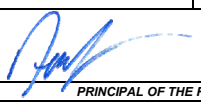
Firm Name:	***Malick & Scherer, P.C.***
Date:	***August 1, 2026***

Certified Payroll

Employee Name	ASCE Grade	Title	Consultant/ Subconsultant Name	Reason for Change	Average of each ASCE grade
Michael McAlpin	PVII	Director	Malick & Scherer, P.C.	2	
Robert Zalewski	PVII	Director	Malick & Scherer, P.C.	2	**$122.50**
Steven C. Ragazzo	PVII	Director	Malick & Scherer, P.C.	2	
Andrew Schueller	PVII	Director	Malick & Scherer, P.C.	2	
Stefan Eskesen	PVI	Project Manager	Malick & Scherer, P.C.	2	
Kellen Sporny	PVI	Project Manager	Malick & Scherer, P.C.	2	
Aino-Liis Tootsov	PVI	Project Manager	Malick & Scherer, P.C.	2	**$99.60**
Anne Napolitano	PVI	Project Manager	Malick & Scherer, P.C.	2	
Gregory Sullivan	PVI	Project Manager	Malick & Scherer, P.C.	2	
Chad Davis	PV	Principal Surveyor	Malick & Scherer, P.C.	2	**$90.00**
Adel Elsekhily	PV	Principal Engineer	Malick & Scherer, P.C.	2	**$90.00**
Ryan S. Teets	PV	Principal Engineer	Malick & Scherer, P.C.	2	
Nicholas DiMichele	PIV	Project Engineer	Malick & Scherer, P.C.	2	
James Kleen	PIV	Project Engineer	Malick & Scherer, P.C.	2	
Andrew Ferri	PIV	Project Engineer	Malick & Scherer, P.C.	2	**$73.60**
Kevin R. Carroll	PIV	Project Engineer	Malick & Scherer, P.C.	2	
Peter Fleming	PIV	Project Engineer	Malick & Scherer, P.C.	2	
John Beringer	PIII	Engineer	Malick & Scherer, P.C.	2	**$65.50**
Ali Malick	PIII	Engineer	Malick & Scherer, P.C.	2	
Ashley Sidhu	PIII	Environmental Specialist	Malick & Scherer, P.C.	2	**$68.00**
Amin Abdelhafeez	PIII	Office Engineer	Malick & Scherer, P.C.		
Mohammed Rashid	PIII	Office Engineer	Malick & Scherer, P.C.		**$65.51**
Abdel-Hady Hussein Hosny	PIII	Office Engineer	Malick & Scherer, P.C.	2	
Wenhui (Terry) Kong	PIII	Office Engineer	Malick & Scherer, P.C.	2	
Anthony Zegarra	PII	Engineer	Malick & Scherer, P.C.	2	
Anthony Passalacqua	PII	Engineer	Malick & Scherer, P.C.	2	
Christopher Stiles	PII	Engineer	Malick & Scherer, P.C.	2	
David Marihugh	PII	Engineer	Malick & Scherer, P.C.	2	**$50.44**
Thomas Nadolsky	PII	Engineer	Malick & Scherer, P.C.	2	
Camilo Arteaga Rodriguez	PII	Engineer	Malick & Scherer, P.C.	2	
Ryan Biesty	PII	Engineer	Malick & Scherer, P.C.	2	
Jordan Williams	PII	Engineer	Malick & Scherer, P.C.	2	
John Boyce	PII	Environmental Specialist	Malick & Scherer, P.C.	2	**$48.00**
Yenny Molano	PI	Engineer	Malick & Scherer, P.C.	2	
Collin Herbert	PI	Engineer	Malick & Scherer, P.C.	4	
Ahmed Elshorbagy	PI	Engineer	Malick & Scherer, P.C.	2	
Thomas Urban	PI	Engineer	Malick & Scherer, P.C.	2	**$36.94**
Mary Nadolsky	PI	Engineer	Malick & Scherer, P.C.	2	
Yunjie Li	PI	Engineer	Malick & Scherer, P.C.	2	
Lini Agudelo Salazar	PI	Engineer	Malick & Scherer, P.C.	2	
Norbert Lapczynski	PI	Engineer	Malick & Scherer, P.C.	4	
Ashley Pastore	PI	Environmental Specialist	Malick & Scherer, P.C.	2	**$36.00**
Tiffany Bai	PI	Environmental Specialist	Malick & Scherer, P.C.	4	
Emily Padilla-Chicas	PI	Planner	Malick & Scherer, P.C.	4	**$40.00**

THE CONSULTANT'S SIGNATORY HEREBY CERTIFIES THAT IT HAS NOT EMPLOYED OR RETAINED ANY COMPANY OR PERSON, OTHER THAN A BONA FIDE EMPLOYEE WORKING FOR THE CONSULTANT, ON A FULL OR PART TIME BASIS, THAT THEY HAVE USED THE DOT FORM, AND THE HOURLY WAGE RATE SHOWN IS THE ACTUAL RATE PAID THE EMPLOYEE AS OF THE SELECTION POSTING DATE FOR THIS CONTRACT. FULL TIME AND PART TIME EMPLOYEES ARE LISTED SEPARATELY AND ACTUAL HOURLY RATES ARE STATED.

CERTIFICATION:



PRINCIPAL OF THE FIRM

Firm Name:	Malick & Scherer, P.C.				
Date:	August 1, 2026				
Ryan Smith	ETV	Sr. Surveyor	Malick & Scherer, P.C.	2	
Luis Ramirez	ETV	Sr. Surveyor	Malick & Scherer, P.C.	2	$58.83
Molly Bloom	ETV	Sr. Surveyor	Malick & Scherer, P.C.	2	
James Coyle	ETIV	Senior Designer	Malick & Scherer, P.C.	2	$58.75
Claudia Reyes-Estrada	ETIV	Senior Designer	Malick & Scherer, P.C.	2	
Thomas Hannan	ETIII	Surveyor	Malick & Scherer, P.C.	2	
Thomas J. Drumm	ETIII	Surveyor	Malick & Scherer, P.C.	2	
Femi Ogundare	ETIII	Surveyor	Malick & Scherer, P.C.	4	$47.17
Zane Brouty	ETIII	Surveyor	Malick & Scherer, P.C.	4	
Matthew Fritz	ETIII	Surveyor	Malick & Scherer, P.C.	2	
Phillip Smith	ETIII	Surveyor	Malick & Scherer, P.C.	2	
Marc Garafano	ETIII	Community Liaison	Malick & Scherer, P.C.		
Jose Sarmiento	ETIII	Community Liaison	Malick & Scherer, P.C.		$44.33
Andrew Zimmer	ETIII	Community Liaison	Malick & Scherer, P.C.		
Bahaa Judeh	ETIII	Inspector	Malick & Scherer, P.C.		
Ala Abedalnabi	ETIII	Inspector	Malick & Scherer, P.C.	2	
Hazim Habbul	ETIII	Inspector	Malick & Scherer, P.C.		
Jake Berfond	ETIII	Inspector	Malick & Scherer, P.C.		$53.75
Karim Hamza	ETIII	Inspector	Malick & Scherer, P.C.	4	
Bajwa Abdul ur Rehman	ETIII	Inspector	Malick & Scherer, P.C.		
Nileshkumar Patel	ETIII	Inspector	Malick & Scherer, P.C.	2	
Jason Davis	ETII	Drafter	Malick & Scherer, P.C.	2	
Randal Acosta	ETII	Drafter	Malick & Scherer, P.C.	2	
Colin Williamson	ETII	Drafter	Malick & Scherer, P.C.	2	
Azhari Asghedom	ETII	Drafter	Malick & Scherer, P.C.	4	$38.07
Julie Cerroni	ETII	Drafter	Malick & Scherer, P.C.	2	
Gary Switzer	ETII	Drafter	Malick & Scherer, P.C.	2	
Travis Klingback	ETII	Drafter	Malick & Scherer, P.C.	2	
Nicolas DeCarlo	ETII	Inspector	Malick & Scherer, P.C.		
Derian Melendez	ETII	Inspector	Malick & Scherer, P.C.	2	$33.33
Thomas McKenna	ETII	Inspector	Malick & Scherer, P.C.	4	
Edward Mack IV	ETI	Jr. Surveyor	Malick & Scherer, P.C.	4	
Patrick Milewski	ETI	Jr. Surveyor	Malick & Scherer, P.C.	2	$27.50
Anthony Heater	ETI	Jr. Surveyor	Malick & Scherer, P.C.	2	
Mark Albright	ETI	Jr. Surveyor	Malick & Scherer, P.C.	2	
Travis Humza	ETI	Drafter	Malick & Scherer, P.C.	2	
Elizabeth Donnelly-Bruno	ETI	Drafter	Malick & Scherer, P.C.	2	
Kaushika Mistry	ETI	Drafter	Malick & Scherer, P.C.	2	$28.20
Frank Olshefski	ETI	Drafter	Malick & Scherer, P.C.	2	
Shawn Calario	ETI	Drafter	Malick & Scherer, P.C.	4	
Amanda Herrick	CL	Clerical	Malick & Scherer, P.C.	2	
Amanda Redcay	CL	Clerical	Malick & Scherer, P.C.	2	$39.50
Carmen Manzueta	CL	Clerical	Malick & Scherer, P.C.	2	
Malik Umair	CL	Clerical	Malick & Scherer, P.C.	2	
Part Time					
Sharon McAlpin	CL	Clerical	Malick & Scherer, P.C.	2	$38.00
George Dimitrakis	ETI	Drafter	Malick & Scherer, P.C.	2	$34.00
Abdurrahman Hagag	PII	Engineer	Malick & Scherer, P.C.	4	$56.00
Venancio Macuray	ETIII	Surveyor	Malick & Scherer, P.C.	4	$45.00
John Jimenez	PVII	Sr. Enviro Specialist	Malick & Scherer, P.C.	5	$150.00

REASON FOR CHANGE:	
MERIT INCREASE	1
COST OF LIVING	2
PROMOTION	3
NEW EMPLOYEE	4
OTHER	5

THE CONSULTANT'S SIGNATORY HEREBY CERTIFIES THAT IT HAS NOT EMPLOYED OR RETAINED ANY COMPANY OR PERSON, OTHER THAN A BONA FIDE EMPLOYEE WORKING FOR THE CONSULTANT, ON A FULL OR PART TIME BASIS, THAT THEY HAVE USED THE DOT FORM, AND THE HOURLY WAGE RATE SHOWN IS THE ACTUAL RATE PAID THE EMPLOYEE AS OF THE SELECTION POSTING DATE FOR THIS CONTRACT. FULL TIME AND PART TIME EMPLOYEES ARE LISTED SEPARATELY AND ACTUAL HOURLY RATES ARE STATED.	
CERTIFICATION:	***PRINCIPAL OF THE FIRM***

State of New Jersey
DEPARTMENT OF TRANSPORTATION
P.O. Box 600
Trenton, New Jersey 08625-0600

MIKIE SHERRILL
Governor

DR. DALE G. CALDWELL
Lt. Governor

PRIYA JAIN
Commissioner

July 27, 2026

Arif Malick, President
Malick & Scherer, P.C.
53 Frontage Road, Suite 170
Hampton, NJ 08827

Dear Arif Malick:

Based on our review of Malick & Scherer, P.C.'s Statement of Direct Labor, Fringe Benefits and General Overhead for the Year Ended December 31, 2025, we recommend overhead rates of *91.09* percent be used for construction inspection projects, *99.88* percent be used for home office projects, and *97.95* percent be used for additional work modifications for contracts entered into prior to your firm selecting to use split rates or the time split rates were required on all new contracts and extra work modifications. Additionally, in accordance with current Department policy, if FCCM is specifically identified in the cost proposals relating to the contract under which the cost is to be claimed, the audited FCCM rates of *0.26* percent should be used for construction inspection projects, *0.29* percent should be used for home office projects, and *0.28* percent should be used for additional work modifications for contracts entered into prior to your firm selecting to use split rates or the time split rates were required on all new contracts and extra work modifications. The above rates should be used for funding all new contracts.

In addition, the overhead rates proposed on this overhead letter expire on July 1, 2027.

These rates are subject to audit verification. Our acceptance of these rates does not extend beyond contracts with the New Jersey Department of Transportation. Any other entity contracting with the firm is responsible for determining the acceptability of the overhead statement.

This letter will be provided to other governmental entities upon request, in accordance with 23 U.S.C. § 112(d).

If you have any questions, feel free to contact Timothy Groark at (609)-963-2412 or Timothy.Groark@dot.nj.gov.

Sincerely,

Marie Samson
Administrative Analyst IV Management Auditor, Bureau of External Audit
New Jersey Department of Transportation
TG

III. SUB CONSULTANT PROPOSALS

Richard Grubb & Associates

RICHARD GRUBB & ASSOCIATES
Historic Architecture • Archaeology • Historical Research
259 Prospect Plains Road | Building D | Cranbury, New Jersey 08512 | 609-655-0692 | www.rgaincorporated.com

CULTURAL RESOURCES

SCOPE OF WORK

CULTURAL RESOURCES SURVEY

2025 TRANSPORTATION ALTERNATIVES SET-ASIDE PROGRAM
PLEASANTDALE STREETSCAPE PROJECT

TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY

August 20, 2026

Richard Grubb & Associates, Inc. (RGA) will complete a Cultural Resources Survey in support of the Township of West Orange's proposed streetscape improvements to an approximately 1,250-foot segment of Pleasant Valley Way, between Greenwood Avenue and Marmon/Kenz Terrace. As part of the proposed project, the Township is proposing key improvements designed to elevate safety and accessibility for commuters alongside beautification enhancements. Planned upgrades include, but are not limited to, new brick pavers and stamped concrete crosswalks, ADA-compliant curb ramps, flashing LED pedestrian beacons, decorative lighting fixtures, benches, and trash receptacles, among other work. The proposed project will include the installation of trees, PSEG decorative light poles and fixtures, planters, bus shelters, benches, bike racks, trash receptacles, detectable warning surfaces, and an asphalt-stamped or brick paver crosswalk at various points throughout the project limits. These enhancements are essential for maintaining consistency and accessibility throughout Pleasant Valley Way, as well as improving overall safety for the community.

The Preliminary Engineering (PE) phase will be funded, in part, by a 2025 Transportation Alternatives Set-Aside grant that is administered by the New Jersey Department of Transportation-Bureau of Environmental Program Resources (NJDOT-BEPR) in partnership with the North Jersey Transportation Planning Authority (NJTPA). The Federal Highway Administration (FHWA) is the lead federal agency. Due to the use of federal funding, the proposed project is an undertaking subject to Section 106 of the National Historic Preservation Act of 1966 (NHPA), as amended (Public Law 89-665; 54 USC §; 300101 et seq.), and its implementing regulations (36 CFR § 800), the National Environmental Policy Act (NEPA), and Section 4(f) of the US Department of Transportation Act. The Cultural Resources Survey described herein will be sufficient to complete Section 106 consultation between the NJDOT and New Jersey Historic Preservation Office (NJHPO) through determinations of National Register of Historic Places (NRHP) eligibility and assessments of effects should historic properties be identified. Historic properties are defined as resources listed in or eligible for listing in the NRHP.

A review of the NJ Cultural Resources GIS Online Map Viewer (NJ-GeoWeb) indicates that the project location is not situated within the boundaries of a historic property previously determined eligible for or listed in the NRHP, nor is the project location situated within an archaeological site grid. Preliminary background suggests there are several historic resources lining the project limits that have not been previously identified or evaluated for the NRHP by the NJHPO. As currently proposed, a number of the proposed project elements consist of activities on the NJDOT's current *List of Undertakings Which Have Limited or No Effect on Cultural Resources in New Jersey*, including the installation of trash receptacles, bike racks, and benches.

CULTURAL RESOURCES SURVEY

The goal of the Cultural Resources Survey will be to initiate the Section 106 process, define appropriate Areas of Potential Effects for Archaeology (APE-Archaeology) and Historic Architecture (APE-Architecture), evaluate the eligibility for the NRHP of all historic architectural resources within the APE-Architecture, and to assess effects of the project on historic properties, if any. The proposed effort will comprise an Intensive-level historic architectural survey. Based on the limited extent and nature of the undertaking, a formal archaeological survey is not included. The NJDOT staff will lead the coordination effort with NJHPO.

The results of the Cultural Resources Survey will be presented in a report that meets the Secretary of the Interior's *Standards and Guidelines for Archaeology and Historic Preservation* (1983) and will meet the requirements of the NJHPO's *Guidelines for Architectural Survey* (1999).

The project archaeologist will meet the Secretary of the Interior's Professional Qualifications Standards for Archaeology (36 CFR § 61). The project architectural historian will meet the Secretary of the Interior's Professional Qualifications Standards for Architectural History (36 CFR § 61).

ACTIVITIES

Activity Codes 3300, 3305, 3310, and 3320 will be completed in accordance with the NJ Project Delivery Process for Preliminary Engineering.

Initiate Cultural Resources (Section 106) Process (3300)

RGA will prepare a letter that delineates the APEs to facilitate the NJDOT's initiation of Section 106 consultation with the NJHPO. This will entail a review of project maps to identify the proposed limits of disturbance, which will be used to delineate the APE-Archaeology. The APE-Architecture will encompass the APE-Archaeology. A site visit will be conducted to document existing conditions within the APE-Architecture using digital photography. Representative photographs of the APE-Architecture will be included in the APE letter submitted to the NJHPO. RGA will also prepare a list of potential consulting parties. RGA will check the archaeological site files at the New Jersey State Museum (NJSM) for previously registered archaeological sites within or proximate to the APE-Archaeology. Since it is unlikely that the project will impact archaeological historic properties, it is anticipated that the archaeological effort will end with the Section 106 initiation process. A recommendation for no further archaeological survey is expected within the Section 106 initiation letter. Project mapping is requested to help complete the Section 106 initiation letter.

Estimated duration: 1-2 months.

Conduct Cultural Resources Survey (3305)

A Cultural Resources Survey will be performed to comply with Section 106 of the National Historic Preservation Act of 1966, as amended, and will conform to all requirements of the NJDOT and NJHPO for such studies. The initial survey will include an Intensive-level historic architectural survey. Background research will be performed using available and accessible NJHPO files, New Jersey State Library, and local repositories, if feasible. Pertinent planning and regulatory surveys at the NJHPO will be reviewed. Historic atlases and maps will be reviewed. RGA will use the NJHPO's GIS data for information on known historic properties proximate to the project area. RGA will also review internal files for information on prior cultural resources surveys. An archaeological survey is not included.

Intensive-level Historic Architectural Survey
The Intensive-level historic architectural survey will determine if previously identified cultural resources and any unidentified significant buildings, historic districts, and structures of greater than 50 years in age are present within the APE-Architecture and will be impacted by the project. Preliminary background research suggests there are approximately 11 previously unidentified and/or unevaluated historic resources within a probable APE-Architecture, consisting primarily of early to mid-twentieth century dwellings and commercial properties. These resources include Block 176.05, Lot 10; Block 176.03, Lots 16 and 17; Block 152.22, Lots 142.01, 142.02, 142.03, and 142.05; Block 154.06, Lots 13, 14, 15, and 18. RGA does not anticipate that all 11 resources will require Intensive-level survey. Important considerations will be if the architectural resource possesses the requisite historical significance and integrity for listing in the NRHP and whether the proposed undertaking has the potential to impact the resource's ability to meet the NRHP Criteria. Project effects will be assessed on all identified historic properties.

Estimated duration: 3 months.

Prepare CR Survey Report (3310)

RGA will prepare a Cultural Resources Survey Report covering historic architecture. The report will describe the survey and identification/evaluation of resources associated with the project and will follow current guidelines prepared by the NJDOT and the NJHPO. The report will summarize the results of Activity 3305 and will provide the basis for consultation with the NJHPO.

Estimated duration: 2 months from completion of all fieldwork.

Review CR Survey Report (3315)

To be completed by the NJDOT.

Estimated duration: 2 weeks.

Address NJDOT Comments on CR Survey Report (3320)

RGA will incorporate comments received from the NJDOT into a final Cultural Resources Survey report to be submitted to the NJHPO.

Estimated duration: 2 weeks.

Approve CR Survey Report (3325)

To be completed by the NJDOT.

Estimated duration: To be determined based on report complexity.

ASSUMPTIONS/EXCLUSIONS

This proposal assumes that the contractor and/or NJDOT will facilitate entry onto private properties, if necessary, to enable the completion of the Section 106 initiation letter and fieldwork.

Survey tasks can only commence once mapping depicting the LOD is provided. RGA assumes that the project team will additionally provide the LOD as a GIS shapefile or CAD layer file. In the event project plans change after RGA has commenced survey tasks, a supplemental scope will be necessary.

Phase IA/IB archaeological survey (i.e., shovel test pits, artifact processing and analysis) is not included. Such work, if required by the NJHPO, will require the submission of supplemental scope of work and cost.

As the work does not extend within the boundaries of an NJR-listed historic property, RGA assumes that compliance with the New Jersey Register of Historic Places Act (NJRHPA) and the completion of an Application for Project Authorization (APA) will not be required for this project. Should the NJHPO require the drafting of an APA, a separate scope and cost can be provided for this task.

Road and/or shoulder closure permits are not anticipated and not included in this scope.

Assistance with drafting an MOA and/or Section 4(f) document (Activity Codes 3335 and 3410) and with the preparation and submission of Adverse Effect Documentation to the FHWA and Advisory Council on Historic Preservation (Activity Code 3350) is not included and would require a supplemental scope.

Consultation with Native American tribes and other consulting parties will be performed by the NJDOT-BEPR.

Should the NJHPO require intensive-level survey of additional historic resources, then a supplemental scope and cost would be needed.

Mitigation work, if required, will take place during the Final Design (FD) phase. Archaeological monitoring, if required, would take place during the Construction (CON) phase.

Richard Grubb & Associates, Inc./RGA, Inc.
Cost Proposal
Cultural Resources Survey (Intensive-level Historic Architectural Survey)
Pleasantdale Streetscape Project
Township of West Orange, Essex County, New Jersey

Labor Costs

Personnel by Title	Rate*	Activity 3300	Activity 3305	Activity 3310	Activity 3320	Total Hours	Total Labor
Vice President (PIX)	$ 65.00			1		1	$65.00
Prin. Sr. Archaeol. I (PVIII)	$ 60.50	4				4	$242.00
Prin. Sr. Arch. Historian II (PVII)	$ 53.45	2	8	16		26	$1,389.70
Sr. Archaeol. I (PVI)	$ 41.50					0	$0.00
Sr. Arch. Historian II (PV)	$ 36.47	4	16	24	2	46	$1,677.62
Archaeologist I (PIV)	$ 36.47	4				4	$145.88
Archaeologist II (PIII)	$ 29.33					0	$0.00
Architect. Historian I (PIV)	$ 32.86	24	200	224	8	456	$14,984.16
Lab Manager (PIV)	$ 32.86					0	$0.00
Drafter I (ET-III)	$ 32.45	6		24	4	34	$1,103.30
GIS Technician	$ 36.47					0	$0.00
Technical Editor (PV)	$ 36.47	4		16	4	24	$875.28
Field Technician (PII)	$ 25.08					0	$0.00
Total Hours by Task		48	224	305	18	595	
Total Labor by Task		$1,769.88	$7,583.12	$10,518.44	$611.50		$20,482.94

Expense Costs

Expense	Amount
Aerial Photographs	$50.00
Postage	$25.00
Photoduplication	$50.00
	$125.00

Direct Labor Total		$20,482.94
Overhead**	146.88%	$30,085.34
Fee	19.5%	$3,994.17
Labor Total		$54,562.46
Expense Total		$125.00
Total Project Cost Not-To Exceed		$54,687.46

*Rates based on August 7, 2026 Certified Payroll
**FAR Audited and NJDOT Approved Overhead Rate

August 20, 2026

FIXED FEE CALCULATION

PROJECT:	Pleasantdale Streetscape Improvements, Township of West Orange
CONSULTANT:	Richard Grubb & Associates, Inc. / RGA, Inc.
AGREEMENT OR CAM NO.	
PREPARED BY:	Allee Davis/Paul McEachen, RGA, Inc.
DATE:	8/20/2026

EVALUATE PROJECT SPECIFICS:

Directions:
Prime Consultant will use Total Project Design Cost (or Task Order Design Cost) for the SIZE criteria
Each Subconsultant will assign points for SIZE, COMPLEXITY, DURATION, & DEGREE OF RISK based on its specific project tasks.

SPECIFICS	CRITERIA	POINTS	RATING
SIZE:	*SMALL* - Total Fee (Project Design Cost) < $1,250,000	15	**15**
	LARGE - Total Fee (Project Design Cost) > $1,250,000	20	
COMPLEXITY:	*SIMPLE* - Limited Scope of Work; Deck Patching, Resurfacing, Restoration, Concept Development, Studies, Surveys, Landscape, Inspections	10	**15**
	STANDARD - Moderate Scope; Rehabilitation, New, or Reconstruction	15	
	COMPLEX - Multi-disciplined, Highly Specialized, or Major Unusual	20	
DURATION:	*STANDARD* - Appropriate Schedule	15	**15**
	AGGRESSIVE - Designers Schedule Reduced > 10 %	20	
DEGREE OF RISK:	*LEVEL 1* - Low Risk of Claims; Limited Scope of Work, Deck Patching, Resurfacing, Restoration, Concept Development, Studies, Surveys, Landscape, Inspections	20	**20**
	LEVEL 2 - Average Risk of Claims; Standard Complexity or Level 1 with High Public Exposure	30	
	LEVEL 3 - High Risk of Claims; Hazardous, Experimental, or Bonus/Penalty Clauses	40	
		TOTAL RATING =	**65**

CALCULATE FEE:

PROJECT SPECIFICS FACTOR (Total Rating /100) =	**0.65**
FEE FACTOR (Project Specifics Factor x 0.30) =	**0.195**
DIRECT LABOR COSTS	**$ 20,482.94**
TOTAL FEE (Direct Labor Costs x Fee Factor) =	**$ 3,994.17**

Firm Name:	***Richard Grubb & Associates, Inc (RGA, Inc.)***
Agreement #:	
CAM/CAA or Task Order #:	
Date:	***August 7, 2026***

Certified Payroll							
Employee Name		**ASCE Grade**	**Title**	**Actual Rate as of Selection Posting Date**	**Consultant/ Subconsultant Name**	**P/F**	**Average of each ASCE grade**
Richard	Grubb	PIX	Director	$65.00		F	**$65.00**
Paul	McEachen	PVIII	Principal Senior Archaeologist	$60.50		F	**$60.50**
Allee	Davis	PVII	Principal Senior Architectural Historian	$52.50		F	
Lynn	Alpert	PVII	Principal Senior Architectural Historian	$52.50		F	
Chelsea	Mansky (Troppauer)	PVII	Principal Senior Architectural Historian	$47.50		F	**$53.45**
Susan	Bamann	PVII	Principal Senior Archaeologist	$57.00		F	
Michael	Gall	PVII	Principal Senior Archaeologist	$57.75		F	
Sean	McHugh	PVI	Senior Archaeologist	$45.00		F	**$41.50**
Ilene	Grossman-Bailey	PVI	Senior Archaeologist	$38.00		P	
Teresa	Bulger	PV	Senior Historian	$39.15		F	
Virginia	Overberger	PV	Senior Architectural Historian	$36.00		P	
Kristen	Herrick	PV	Senior Architectural Historian	$37.50		F	
Lauren	Dunkle	PIV	Senior Architectural Historian	$36.00		F	
Anastasia	Azenaro-Moore	PV	Senior Architectural Historian	$36.55		F	**$36.47**
Amanda	Stamper	PV	Senior Archaeologist	$36.00		F	
David	Strohmeier	PV	Archaeologist	$35.00		F	
Allen	Poyner	PV	Senior GIS Specialist	$35.00		F	
Cathy	Smyrski	PV	Technical Editor	$37.00		F	
Danielle	Cathcart	PIV	Laboratory Manager	$34.50		F	
Tara	Erdriech	PIV	Laboratory Manager	$29.35		P	
Olivier	Vansassenbrouck	PIV	Geophysical Archaeologist	$30.70		F	
Allison	Gall	PIV	Archaeologist	$35.85		F	
Richard	Adamczyk	PIV	Archaeologist	$34.00		F	**$32.86**
Matt	Craig	PIV	Archaeologist	$34.00		F	
Nicole	Herzog	PIV	Archaeologist	$34.00		F	
Sarah	Rosso	PIV	Architectural Historian	$34.00		F	
Matt	Goldberg	PIV	Architectural Historian	$31.75		F	
Emma	Durham	PIV	Technical Editor	$30.40		F	
Jenn	Beggs	PIII	Architectural Historian	$29.00		F	
David	Zaveloff	PIII	Architectural Historian	$28.85		F	
Allie	Marchesani	PIII	Architectural Historian	$26.00		F	
Lauren	Huber	PIII	Architectural Historian	$25.00		F	
Julia	Hayman	PIII	Architectural Historian	$25.00		F	
Jonathan	Dernbach	PIII	Archaeologist	$30.75		F	
Jonathan	Hanna	PIII	Archaeologist	$31.00		F	
Theresa	Tripoli	PIII	Archaeologist	$28.00		F	**$28.95**
Gillian	Scholz	PIII	Archaeologist	$27.00		F	
Abigail	Kennedy	PIII	Archaeologist	$27.50		F	
Adrienne	Jarczewski	PIII	Archaeologist	$29.15		F	
Michele	Troutman	PIII	Archaeologist	$29.00		F	
Ted	Gold	PIII	Archaeologist	$31.00		F	

Alexander	Seng	PIII	Archaeologist	$27.00		F	
Roy	Walton	PIII	Archaeologist	$24.70		F	
Paul	George	PIII	Archaeologist	$44.25		F	
Jeanette	Koczwara	PII	Research Assistant	$25.50		F	**$25.09**
Cheryl	Schlagenhaft	PII	Field Director	$25.00		F	
Andrew	Van Buskirk	PII	Field Director	$26.00		F	
Giovanni	Palumbo	PII	Field Director	$24.00		F	
Emily	Healey	PII	Field Director	$23.00		F	
Edward	McFadden	PII	Field Director	$27.05		F	
Patricia	McEachen	ET-III	Drafter - I	$32.45		F	**$32.45**

P/F PART OR FULL TIME

NOTES: THE ASCE GRADE MUST AGREE WITH THE TITLE CONCURRENCE SHEET KEPT ON FILE IN THE BUREAU OF PROFESSIONAL SERVICES

THE CONSULTANT'S SIGNATORY HEREBY CERTIFIES THAT IT HAS NOT EMPLOYED OR RETAINED ANY COMPANY OR PERSON, OTHER THAN A BONA FIDE EMPLOYEE WORKING FOR THE CONSULTANT, ON A FULL OR PART TIME BASIS, THAT THEY HAVE USED THE DOT FORM, AND THE HOURLY WAGE RATE SHEET

CERTIFICATION:



PRINCIPAL OF THE FIRM

Colliers Engineering & Design

TOWNSHIP OF WEST ORANGE
NJDOT Transportation Alternatives Set-Aside Program 2025
Pleasantdale Streetscape Project - Pleasant Valley Way
(from 250 Feet South of Greenwood Avenue to Kenz Terrace)
Township of West Orange, Essex County, New Jersey

August 11, 2026

PRELIMINARY ENGINEERING

Colliers Engineering & Design (Colliers) will provide public involvement services as a subconsultant to Malick & Scherer, PC (M&S) during the Preliminary Engineering (PE) phase of the Pleasantdale Streetscape Project in the Township of West Orange, Essex County, New Jersey.

The project is being advanced under the NJDOT Transportation Alternatives (TA) Set-Aside Design Assistance Program. M&S will serve as the prime consultant and will provide overall project management and coordination of Colliers' services with the Township of West Orange, NJDOT Local Aid, Essex County, and the other project disciplines.

Colliers' Preliminary Engineering services will include the following:

Activity 3865 – Hold Public Information Center

Colliers will organize, coordinate, and facilitate one (1) Public Information Center (PIC) during Preliminary Engineering in accordance with applicable NJDOT public involvement requirements and in coordination with M&S, the Township, and NJDOT.

Colliers will coordinate with M&S and the Township regarding the date, location, format, and content of the PIC. The Township will provide the meeting venue.

Colliers' services will include:

- Coordination and preparation for one (1) PIC.
- Preparation of public-facing presentation materials, meeting handouts, sign-in sheets, and meeting advertisements using technical design information and exhibits provided by M&S, and in coordination with the Township and NJDOT.
- Presentation and facilitation support during the PIC.
- Documentation of comments received from the public, elected officials, stakeholders, businesses, and adjacent property owners.
- Preparation of meeting minutes and a summary of public comments.
- Coordination with M&S regarding responses to comments and potential refinements to the Preliminary Engineering design resulting from public input.

M&S will provide Colliers with the applicable preliminary design information, technical exhibits, environmental information, traffic information, and other technical project information necessary for preparation of the meeting materials. Colliers will be responsible for assembling and formatting the information into appropriate public-facing presentation materials.

Activity 3874 – Execute PE Public Involvement Action Plan

Colliers will coordinate stakeholder outreach during the Preliminary Engineering phase in coordination with M&S and the Township.

For purposes of this proposal, stakeholder coordination will include:

- One (1) meeting with the Downtown West Orange Alliance.
- Two (2) meetings with the Township Historic Preservation Commission.
- Coordination with the Pedestrian Safety Advisory Board, as appropriate.
- Coordination with Essex County, as appropriate.

M&S will provide the applicable technical design information and exhibits for the stakeholder meetings. Colliers will prepare and assemble appropriate public-facing meeting materials, which may include project handouts, location maps and aerials, environmental screening information, photographs, and other materials necessary to facilitate review and discussion.

Colliers will coordinate with M&S and the Township in preparing meeting materials and presenting the proposed improvements. Colliers will coordinate with the Township to schedule the identified stakeholder meetings and will prepare meeting minutes documenting discussions, comments, concerns, decisions, and action items, as appropriate.

Colliers will assist the Township in obtaining the anticipated Resolution of Support from the Historic Preservation Commission following completion of the applicable coordination.

Colliers will maintain documentation of stakeholder coordination activities and provide such documentation to M&S for incorporation into the project record and environmental documentation. Colliers will coordinate applicable stakeholder comments with M&S and the project design team for consideration in development of the Preliminary Engineering plans.

Activity 3185 – Develop Final Design Public Involvement Action Plan

Based upon the public outreach and stakeholder coordination completed during Preliminary Engineering, Colliers will prepare a Public Involvement Action Plan (PIAP) for implementation during the Final Design phase.

The PIAP will identify anticipated public involvement activities, stakeholder coordination requirements, communication methods, project milestones, and opportunities for continued public participation during Final Design.

The PIAP will consider the comments and commitments developed during Preliminary Engineering and establish a framework for continued coordination with the Township, NJDOT, Essex County, adjacent property owners, businesses, community organizations, and other applicable stakeholders.

Colliers will submit the draft PIAP to M&S for review and will address comments from M&S and NJDOT necessary to finalize the document.

PRELIMINARY ENGINEERING COST PROPOSAL

TOWNSHIP OF WEST ORANGE
NJDOT Transportation Alternatives Set-Aside Program 2025
Pleasantdale Streetscape Project - Pleasant Valley Way
(from 250 Feet South of Greenwood Avenue to Kenz Terrace)
Township of West Orange, Essex County, New Jersey

Colliers Engineering & Design

8/13/2026

TASK # / TASK NAME	TITLE	Sr. Professional PVII	Project Manager PVI	Principal Engr/Surveyor PV	Project Engineer PIV	Engineer PIII	Engineer PII	Engineer PI	Research Clerk	TOTAL HOURS
3185	Develop FD Public Involvement Action Plan	2.00	4.00	8.00						**14.00**
3865	Hold Public Information Center	2.00	4.00	4.00		12.00	12.00	4.00		**38.00**
3874	Execute PE Public Involvement Action Plan (PIAP)	6.00	16.00	28.00		28.00	52.00	4.00		**134.00**
TOTAL MANHOURS		**10.00**	**24.00**	**40.00**	**0.00**	**40.00**	**64.00**	**8.00**	**0.00**	**186.00**
DIRECT RATE		$ 96.76	$ 85.15	$ 66.93	$ 58.98	$ 48.10	$ 39.81	$ 25.16	$ 36.23	
TOTAL DIRECT SALARY		**$ 967.60**	**$ 2,043.60**	**$ 2,677.20**	**$ -**	**$ 1,924.00**	**$ 2,547.84**	**$ 201.28**	**$ -**	**$ 10,361.52**

OUT-OF-POCKET EXPENSES	
Mileage	$ 500.00
Repro	$ 500.00
	$ -
	$ -
	$ -
	$ -
	$ -
	$ -
	$ -
	$ -
Total Expense	**$ 1,000.00**

SUBTOTAL DIRECT LABOR COSTS	$ 10,361.52
BASED ON NJDOT APPROVED OVERHEAD (186.31%)	$ 19,304.55
FIXED FEE (22.5% X DIRECT LABOR COSTS)	$ 2,331.34
PROFESSIONAL FEE	**$ 31,997.41**
OUT-OF-POCKET EXPENSES	$ 1,000.00
TOTAL FEE AND EXPENSES	**$ 32,997.41**

FIXED FEE CALCULATION

PROJECT:	NJDOT TAP 2025 W Orange Twp Pleasantdale Streetscape PE
CONSULTANT:	Colliers Engineering & Design
AGREEMENT OR CAM NO.	TP-806
PREPARED BY:	Christopher Iacono
DATE:	8/14/2026

EVALUATE PROJECT SPECIFICS:

Directions:
Prime Consultant will use Total Project Design Cost (or Task Order Design Cost) for the SIZE criteria
Each Subconsultant will assign points for SIZE, COMPLEXITY, DURATION, & DEGREE OF RISK based on its specific project tasks.

SPECIFICS	CRITERIA	POINTS	RATING
SIZE:	*SMALL* - Total Fee (Project Design Cost) < $1,250,000	15	**15**
	LARGE - Total Fee (Project Design Cost) > $1,250,000	20	
COMPLEXITY:	*SIMPLE* - Limited Scope of Work; Deck Patching, Resurfacing, Restoration, Inspection, Concept Development Services	10	**15**
	STANDARD - Moderate Scope; Rehabilitation, New, or Reconstruction	15	
	COMPLEX - Multi-disciplined, Highly Specialized, or Major Unusual	20	
DURATION:	*STANDARD* - Appropriate Schedule	15	**15**
	AGGRESSIVE - Designers Schedule Reduced > 10 %	20	
DEGREE OF RISK:	*LEVEL 1* - Low Risk of Claims; Studies, Surveys, Landscape, Inspections	20	**30**
	LEVEL 2 - Average Risk of Claims; Standard Complexity or Level 1 with High Public Exposure	30	
	LEVEL 3 - High Risk of Claims; Hazardous, Experimental, or Bonus/Penalty Clauses	40	
		TOTAL RATING =	**75**

CALCULATE FEE:

PROJECT SPECIFICS FACTOR (Total Rating /100) =	**0.75**
FEE FACTOR (Project Specifics Factor x 0.30) =	**0.225**
DIRECT LABOR COSTS	**$ 10,361.52**
TOTAL FEE (Direct Labor Costs x Fee Factor) =	**$ 2,331**

VERIFY THAT FEE FALLS WITHIN RANGE OF 6% TO 15%:

Firm Name:		***Colliers Engineering & Design, Inc.***
Agreement #:		
CAM/CAA or Task Order #:		
Date:		***June 25, 2026***

Individuals listed on a firms prequalification submission must be listed on certified payroll, or a certified payroll for the entire firm can be included. Individuals proposed for prequalification must be employed by the firm submitting; use of subconsultant personnel is prohibited.

Certified Payroll

Employee Name		ASCE Grade	Internal Title	Actual Rate	Consultant Name	P/ F	Reason for Change	Avg of each ASCE grade
Maurice	Rached	VIII	Regional Director, Infrastructure		Colliers Engineering & Design, Inc.	F		
Richard	Chelotti	VIII	Division Director, Infrastructure		Colliers Engineering & Design, Inc.	F		
Paul	Nolan	VIII	National Discipline Leader, Construction Administration		Colliers Engineering & Design, Inc.	F		
Glen	Lloyd	VIII	National Division Operating Officer, Survey		Colliers Engineering & Design, Inc.	F		
Joseph	Torlucci	VIII	Principle Associate, Environmental		Colliers Engineering & Design, Inc.	P		
Adam	Allen	VIII	National Discipline Leader, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	P		**$125.87**
Jeremy	Hedden	VIII	National Discipline Leader, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Jeffrey	Fiore	VIII	National Discipline Leader, Transportation Planning		Colliers Engineering & Design, Inc.	F		
George	Kevgas	VIII	National Discipline Leader, Rail		Colliers Engineering & Design, Inc.	F		
Greg	Johnson	VIII	National Discipline Leader, Water		Colliers Engineering & Design, Inc.	F		
Richard	Brown	VII	Geographic Discipline Leader, Program Management		Colliers Engineering & Design, Inc.	F		
Richard	Maloney	VII	Regional Discipline Leader, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Luis	Costa	VII	Geographic Discipline Leader, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Anthony	LaRosa	VII	Regional Discipline Leader, Water/Wastewater		Colliers Engineering & Design, Inc.	F		
Jordan	Volk	VII	Regional Discipline Leader, Water/Wastewater		Colliers Engineering & Design, Inc.	F		
Nabil	Ghanem	VII	Geographic Discipline Leader, Buildings/Structural		Colliers Engineering & Design, Inc.	F		
Richard	McIntyre	VII	Geographic Discipline Leader, Construction Engineering & Inspection		Colliers Engineering & Design, Inc.	F		
Patrick	VanHaverbeke	VII	Regional Manager, Survey/Geospatial		Colliers Engineering & Design, Inc.	F		
Anthony	Borrelli	VII	Regional Discipline Leader, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Mike	Croce	VII	Regional Discipline Leader, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Eric	Wilde	VII	Geographic Discipline Leader, Survey/Geospatial		Colliers Engineering & Design, Inc.	F		
Chad	McCollum	VII	Regional Discipline Leader, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Mike	Gramza	VII	Geographic Discipline Leader, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Michael	Quirk	VII	Geographic Discipline Leader, Construction Engineering & Inspection		Colliers Engineering & Design, Inc.	F		
Michelle	Briehof	VII	Geographic Discipline Leader, Transportation Planning		Colliers Engineering & Design, Inc.	F		**$96.76**
Raymond	Walker	VII	Technical Director, Environmental Services		Colliers Engineering & Design, Inc.	F		
Patrick	Hughes	VII	Geographic Discipline Leader, Construction Engineering & Inspection		Colliers Engineering & Design, Inc.	F		
Christopher	Iacono	VII	Geographic Discipline Leader, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Brett	Renolds	VII	Geographic Discipline Leader, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Clay	Wygant	VII	Geographic Discipline Leader, Survey/Geospatial		Colliers Engineering & Design, Inc.	F		
Joseph	Layton	VII	Geographic Discipline Leader, Environmental Services		Colliers Engineering & Design, Inc.	F		
Stephen	Gomba	VII	Geographic Discipline Leader, Water		Colliers Engineering & Design, Inc.	F		
Ahmed	Elmekati	VII	Geographic Discipline Leader, Geotechnical Engineering		Colliers Engineering & Design, Inc.	F		
John	Walton	VII	Discipline Leader, Geotechnical Engineering		Colliers Engineering & Design, Inc.	F		
Josh	Dudicz	VII	Geographic Discipline Leader, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Matthew	Wagner	VII	Geographic Discipline Leader, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Joshua	Rodems	VII	Geographic Discipline Leader, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Matthew	McCort	VII	Geographic Discipline Leader, Environmental Services		Colliers Engineering & Design, Inc.	F		
Adam	Maze	VI	Department Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Alexander	Itkin	VI	Department Manager, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Daniel	Frank	VI	Department Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Robert	Leppala	VI	Department Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Lukman	Osi	VI	Department Manager, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Anthony	Sfameni	VI	Senior Project Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Mike	Stormer	VI	Department Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
John	Arrieta	VI	Senior Project Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Kenneth	Avery	VI	National Market Lead		Colliers Engineering & Design, Inc.	F		**$85.15**
Julianne	Wolfe	VI	Department Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		

Firm Name:		***Colliers Engineering & Design, Inc.***
Agreement #:		
CAM/CAA or Task Order #:		
Date:		***June 25, 2026***

Individuals listed on a firms prequalification submission must be listed on certified payroll, or a certified payroll for the entire firm can be included. Individuals proposed for prequalification must be employed by the firm submitting; use of subconsultant personnel is prohibited.

Certified Payroll

Employee Name		ASCE Grade	Internal Title	Actual Rate	Consultant Name	P/F	Reason for Change	Avg of each ASCE grade
John	McKelvey	VI	Senior Project Manager, Water/Wastewater		Colliers Engineering & Design, Inc.	F		
Daniel	Farnan	VI	Department Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Jessica	Ross	VI	Department Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Joel	Astyk	VI	Geographic Discipline Leader, Building Engineering Services		Colliers Engineering & Design, Inc.	F		
Anthony	Mariani	VI	Department Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Michael	Warrick	VI	Senior Project Manager, Environmental		Colliers Engineering & Design, Inc.	F		
Haris	Hadzic	VI	Department Manager, Survey Geospatial		Colliers Engineering & Design, Inc.	F		
Keith	Hall	V	Senior Engineering Specialist, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Jeffrey	Strejcek	V	Project Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Jessica	Smith	V	Project Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Martin	Zimany	V	Project Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Michael	Seidel	V	Senior Engineering Specialist,Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Steven	Wong	V	Engineering Specialist II, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Smeet	Patel	V	Project Manager, Construction Engineering & Inspection		Colliers Engineering & Design, Inc.	F		
Ashok	Guntaka	V	Senior Engineering Specialist, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Jules	Pike	V	Project Manager, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Janet	Dziegas	V	Project Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Adam	Warburton	V	Project Manager, Environmental Services		Colliers Engineering & Design, Inc.	F		**$66.93**
Xianan	Feng	V	Senior Engineering Specialist, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Ian	Walczak	V	Project Manager, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Jennifer	Bowyer	V	Project Manager, Water/Wastewater		Colliers Engineering & Design, Inc.	F		
Christopher	Siwczak	V	Project Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Vanessa	Rios	V	Project Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
James	Boggs	V	Senior Engineering Specialist, Highways & Traffic		Colliers Engineering & Design, Inc.	F		
Sara	Miller	V	Engineering Specialist II, Water		Colliers Engineering & Design, Inc.	F		
Samantha	Beckett	V	Project Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Austin	Young	V	Project Manager, Environmental Services		Colliers Engineering & Design, Inc.	F		
Kaitlyn	Selsky	IV	Assistant Project Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Karen	Missel	IV	Senior Technical Specialist, Highways & Traffic		Colliers Engineering & Design, Inc.	F		
Salvatore	Florio	IV	Assistant Project Manager, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Ace	LaLuces	IV	Resident Engineer, Construction Engineering & Inspection		Colliers Engineering & Design, Inc.	F		
Shazain	Yusuf	IV	Resident Engineer, Construction Engineering & Inspection		Colliers Engineering & Design, Inc.	F		
Alec	Zukowski	IV	Assistant Project Manager, Traffic Planning		Colliers Engineering & Design, Inc.	F		
William	Marshall	IV	Resident Engineer, Construction Engineering & Inspection		Colliers Engineering & Design, Inc.	F		
Jonathan	Warnock	IV	Assistant Project Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		**$58.98**
James	Smith	IV	Assistant Project Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Devin	Render	IV	Assistant Project Manager, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Joshua	Langenderfer	IV	Assistant Project Manager, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Yazeed	Abuhassan	IV	Senior Project Engineer, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Tucker	Faherty	IV	Senior Project Engineer, Water		Colliers Engineering & Design, Inc.	F		
Nicholas	Spanos	IV	Senior Project Engineer, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Colin	O'Hara	IV	Senior Project Engineer, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Sean	Hoolahan	III	Senior Project Construction Observer, Construction Eng & Insp		Colliers Engineering & Design, Inc.	F		
Sofia	Piela	III	Senior Engineering Designer, Traffic Planning		Colliers Engineering & Design, Inc.	F		
Jignesh	Patel	III	Senior Project Survey Technican		Colliers Engineering & Design, Inc.	F		
John	O'Neil	III	Project Engineer, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Ranadheer	Mitta	III	Engineering Designer III, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Eric	Ballister	III	Engineer Designer III, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		**$48.10**

Firm Name:		***Colliers Engineering & Design, Inc.***
Agreement #:		
CAM/CAA or Task Order #:		
Date:		***June 25, 2026***

Individuals listed on a firms prequalification submission must be listed on certified payroll, or a certified payroll for the entire firm can be included. Individuals proposed for prequalification must be employed by the firm submitting; use of subconsultant personnel is prohibited.

Certified Payroll

Employee Name		ASCE Grade	Internal Title	Actual Rate	Consultant Name	P/F	Reason for Change	Avg of each ASCE grade
Andrew	Thomas	III	Project Engineer, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Justin	Hancock	III	Technical Specialist, Water/Wastewater		Colliers Engineering & Design, Inc.	F		
Kaitlin	Flanegan	III	Senior Project Construction Observer, Construction Eng & Insp		Colliers Engineering & Design, Inc.	F		
Kevin	Garretson	III	Senior Project Construction Observer, Construction Eng & Insp		Colliers Engineering & Design, Inc.	F		
Scott	Rumsey	III	Senior Design Technican, Bridges & Structures		Colliers Engineering & Design, Inc.	F		
Ryan	Mangeruga	II	Engineer Designer II, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Sahana	Hariram	II	Engineer Designer II, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Amelia	Chan	II	Engineer Designer I, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Jacob	Porter	II	Engineer Designer II, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Brittney	Mitchell	II	Engineer Designer II, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		**$39.81**
Konrad	Korley	II	Engineer Designer I, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Ryan	Hardiman	II	Engineer Designer I, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Kian	Sepahpour	II	Engineer Designer I, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
Steven	Shoemaker	II	Engineer Designer II, Highways & Traffic Engineering		Colliers Engineering & Design, Inc.	F		
McKayla	Procopio	I	Technical Assistant		Colliers Engineering & Design, Inc.	F		
Elizabeth	Hayes	I	Technician		Colliers Engineering & Design, Inc.	F		
Kyle	Napier	I	Technician		Colliers Engineering & Design, Inc.	F		
Franklin	Fontana	I	Engineering Intern		Colliers Engineering & Design, Inc.	F		
Francesco	Palumbo	I	Engineering Intern		Colliers Engineering & Design, Inc.	F		**$25.16**
Theo	Maag	I	Engineering Intern		Colliers Engineering & Design, Inc.	F		
Cameron	Richards	I	Engineering Intern		Colliers Engineering & Design, Inc.	F		
Jacob	Taylor	I	Engineering Intern		Colliers Engineering & Design, Inc.	F		
Adam	Abdelatty	I	Engineering Intern		Colliers Engineering & Design, Inc.	F		
Denise	Manson	Clerical	Project Adminstrator		Colliers Engineering & Design, Inc.	F		
Debbie	Miller	Clerical	Project Adminstrator		Colliers Engineering & Design, Inc.	F		**$36.23**
Christine	Carty	Clerical	Project Adminstrator		Colliers Engineering & Design, Inc.	F		
Aliza	Levy	Clerical	Project Adminstrator		Colliers Engineering & Design, Inc.	F		

P/F PART OR FULL TIME

REASON FOR CHANGE:

MERIT INCREASE	1
COST OF LIVING	2
PROMOTION	3
NEW EMPLOYEE	4
OTHER	5

NOTES: THE ASCE GRADE MUST AGREE WITH THE TITLE CONCURRENCE SHEET KEPT ON FILE IN THE BUREAU OF PROFESSIONAL SERVICES .

THE CONSULTANT'S SIGNATORY HEREBY CERTIFIES THAT IT HAS NOT EMPLOYED OR RETAINED ANY COMPANY OR PERSON, OTHER THAN A BONA FIDE EMPLOYEE WORKING FOR THE CONSULTANT, ON A FULL OR PART TIME BASIS, THAT THEY HAVE USED THE DOT FORM, AND THE HOURLY WAGE RATE SHOWN IS THE ACTUAL RATE PAID THE EMPLOYEE AS OF THE PREQUALIFICATION DATE FOR THE FIRM. FULL TIME AND PART TIME EMPLOYEES ARE LISTED SEPARATELY AND ACTUAL HOURLY RATES ARE STATED.

CERTIFICATION:		6/30/2026
	PRINCIPAL OF THE FIRM	