



TOWNSHIP OF WEST ORANGE

25 LAKESIDE AVENUE, WEST ORANGE, N.J. 07052

DEPARTMENT OF ENGINEERING

SUSAN McCARTNEY

Mayor

Tel: (973) 325-4160

Fax: (973) 669-9588

Email: zcarballo@westorange.org

ZAYIBETH CARBALLO

Director/Municipal Engineer

November 10, 2025

Michael Cohen
PS&S
3 Mountainview Road
Warren, NJ 07059

**RE: REQUEST FOR PROPOSALS (RFP)
LUDDINGTON ROAD –SIDEWALK PANEL REPLACEMENT**

Dear Mr. Cohen,

The Department of Engineering of the Township of West Orange requests proposals from firms providing Professional Engineering and Land Surveying Services, which are capable of performing the necessary plans, specifications and bid documents for the replacement of existing pre-cast concrete sidewalk panels covering an existing drainage culvert within the Township Right-Of-Way at 25 Luddington Road. The existing pre-cast sidewalk panels are in disrepair and need replacement. The following professional services are required for the proposed improvements:

1. Land Surveying Services:

- a. Topographic Survey and Base Mapping to provide a topographic field survey and base mapping suitable for the proposed improvements, which includes but is not limited to, the following items;
 - i. Topographic Survey of all trees, shrubs, walls, driveways, sidewalks, steps, service walks and other existing features within the ROW and further, where necessary;
 - ii. Establish the roadway Right-of-Way (R.O.W.);
 - iii. Topographic Survey including additional topography behind the curb and sidewalk;
 - iv. Top and Bottom of curb elevations, storm inlets with inverts and pipe sizes, monitoring wells and any other utilities visible on the roadways will need to be located;
- b. Establish horizontal control based on current New Jersey State Plane Coordinate System and Vertical Datum;
- c. Benchmark(s) to be set on site for future use;
- d. Existing Conditions/ Survey Control Plan;
- e. Coordinate utility mark-outs

An electronic AutoCAD file of the Boundary and Topographic Survey is to be provided to the Department of Engineering as part of the deliverables.

AN EQUAL OPPORTUNITY EMPLOYER

www.westorange.org

2. Civil Engineering Services:

- a. Design for replacing the existing pre-cast concrete sidewalk panels covering the existing drainage culvert;
- b. Design and prepare contract drawings and specifications for replacing the existing pre-cast concrete sidewalk panels covering the existing drainage culvert
- c. Plan set to include, but not limited to, Cover Sheet, Existing Conditions/Survey Control Plan, Demolition Plan, Construction Plan, Traffic Control Plan and Construction Details;
- d. Include four (4) meetings with the Township for Site Investigation/ Preliminary Design, coordination with the Township's WOPD Traffic Bureau for traffic control and detour plan, and Final Design;
- e. Bid Package that includes bid set of plans and construction specifications in accordance with public bidding laws;
- f. Bid Documents (plans and specifications) are to be part of the deliverables to the Township via AutoCAD, hard copy, and PDF files.

3. Construction Administration Services:

Provide separate lump sum cost for construction administration services based on part-time inspection and review of submittals/shop drawings.

The following items are provided for your use:

- Tax map with site delineated;
- Aerial imagery with site delineated;
- Photo report of existing conditions;
- Sample shop drawing of existing sidewalk panel;

The cost of services shall be for a complete design and bid package including cost estimates, plans and specifications (twenty copies each) for bidding purposes including detour plans. All plans, specifications and bid documents shall be in conformance with the latest New Jersey Department of Transportation specifications.

Proposals shall be on a lump sum basis. Hourly rates shall be submitted with all proposals for any additional work.

It is the intent of this office to advertise for bids by Winter/Spring 2026 with construction in Spring 2026. Proposals shall be submitted in writing on or before 10:00 A.M., Monday, December 1, 2025 to the Department of Engineering, 25 Lakeside Avenue, West Orange, New Jersey 07052 and shall include a specified completion date or number of days required for completion of the work after approval is granted to proceed. Also, evidence of proper insurance shall be submitted for approval by the Township Attorney.

A separate proposal for construction inspection and certification of completion should also be included if available from your firm.

Very truly yours,

Zayibeth Carballo

Zayibeth Carballo, Director/Municipal Engineer

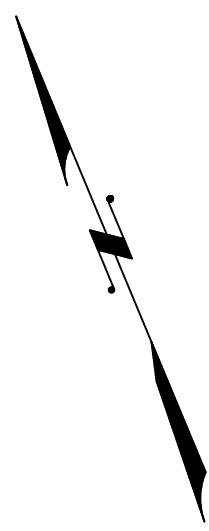
ZYC/jrm,
Enc.

AN EQUAL OPPORTUNITY EMPLOYER

www.westorange.org

SHEET 5

REVISIONS				
DATE	BY	LIC.NO	BLOCK	LOT



LUDDINGTON RD

OVERLOOK AVE

MELROSE PL

CLONAVOR RD

CLONAVOR RD

SILVER SPRING RD

SILVER SPRING RD

SOUTH VALLEY RD

TOWNSHIP OF SOUTH ORANGE
ESSEX COUNTY

TAX MAP
TOWNSHIP OF WEST ORANGE

ESSEX COUNTY
SCALE: 1" = 50'

NEW JERSEY
DATE: JUNE 2011

CHARLES A. ATKINSON

LICENSED LAND SURVEYOR
NEW JERSEY LICENSE NO. 33994
850 SO. WHITE HORSE PIKE
HAMMONTON, NEW JERSEY 08037
COA# 24GA27973300

TO SHOW CONDITIONS AS OF AUGUST 2011

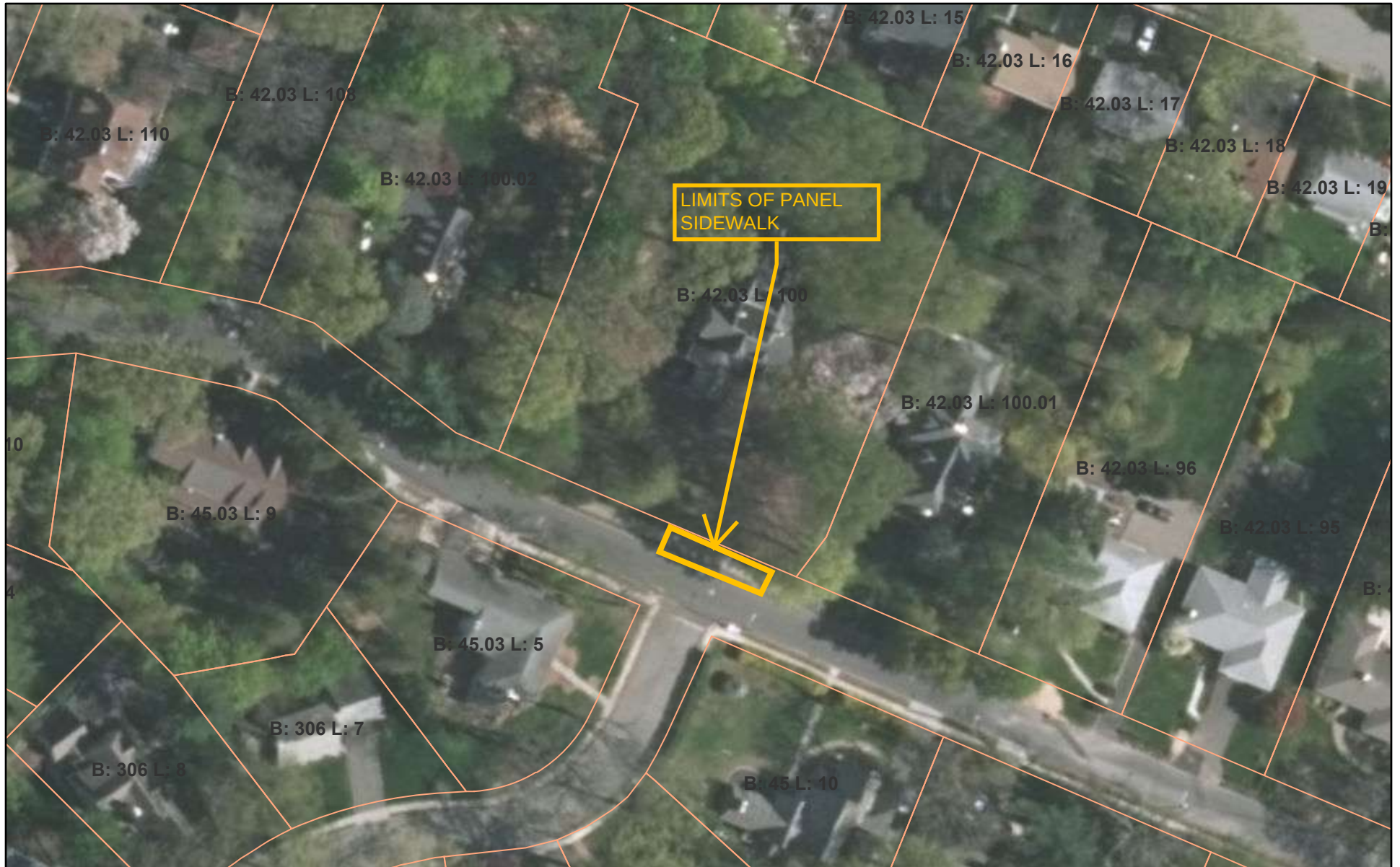
* THIS SHEET HAS BEEN DRAWN USING COMPUTER AIDED DRAFTING/
DESIGN (CAD/D) AND COORDINATE GEOMETRY (COGO).

THIS MAP WAS FORMALLY
CERTIFIED BY THE
DIVISION OF TAXATION ON
NOVEMBER 14, 2014 SIGNED
BY SUE DAVISON, CTA AND
ASSIGNED SERIAL NUMBER 1049

SHEET 3

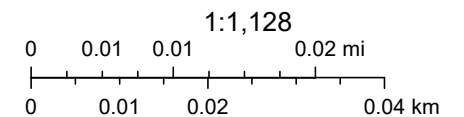
SHEET 1

NJ-GeoWeb



11/7/2025, 2:55:59 PM

-  County Boundaries
-  Parcels Data (Block and Lot)



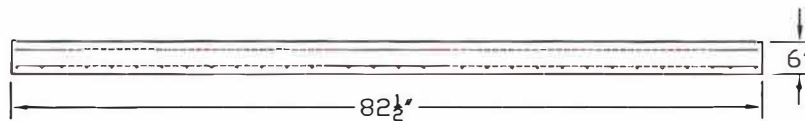
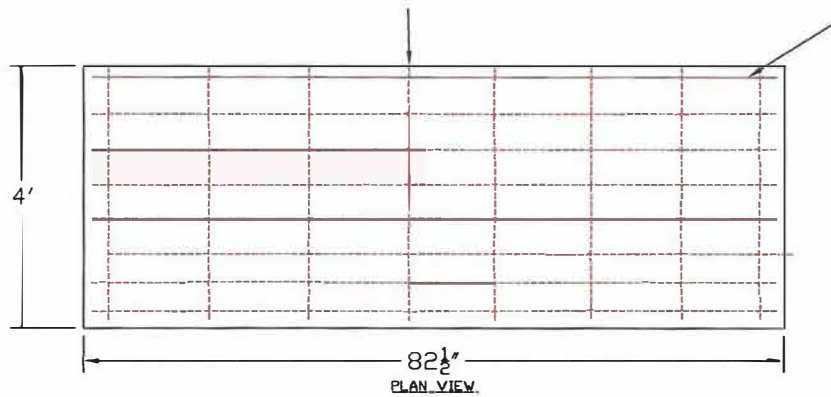
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



REPLACEMENT SIDEWALK PANEL Type A-11 SECTIONS

#5 @ 10" LONG WAY
#5 @ 10" SHORT WAY
BOTT. STEEL/EPOXY

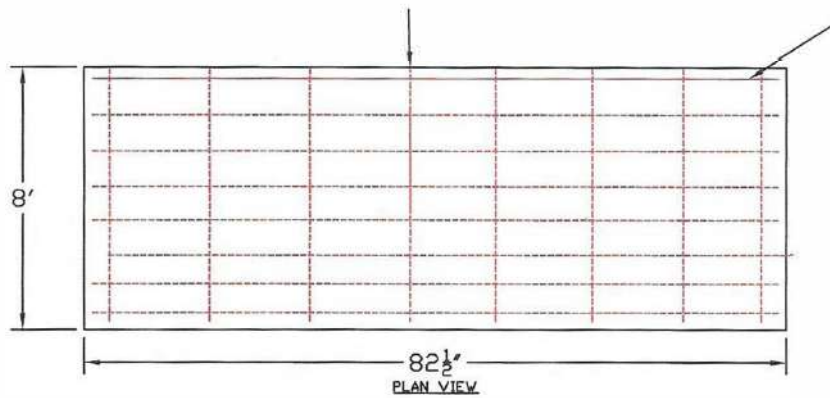
4X4-D4XD4 WIRE MESH
TOP STEEL EPOXY



REPLACEMENT SIDEWALK PANEL Type B-1 SECTIONS

#5 @ 10" LONG WAY
#5 @ 10" SHORT WAY
BOTT. STEEL/EPOXY

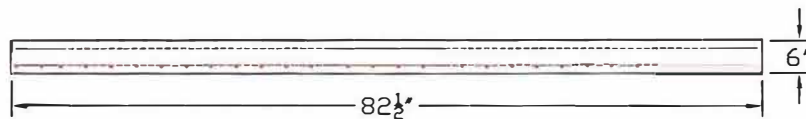
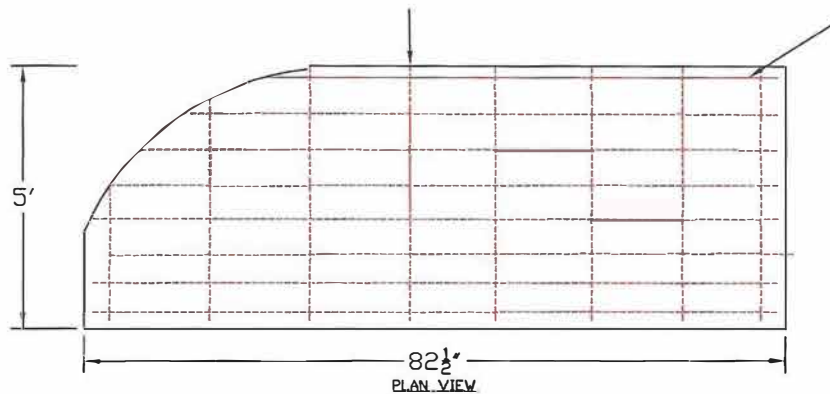
4X4-D4XD4 WIRE MESH
TOP STEEL EPOXY



REPLACEMENT SIDEWALK
PANEL Type C-1 SECTIONS
**A TEMPLATE WILL BE NEEDED
FOR THIS SECTION **

#5 @ 10" LONG WAY
#5 @ 10" SHORT WAY
BOTT. STEEL/EPOXY

4X4-D4XD4 WIRE MESH
TOP STEEL EPOXY





TOWNSHIP OF WEST ORANGE

25 LAKESIDE AVENUE, WEST ORANGE, N.J. 07052

DEPARTMENT OF ENGINEERING

SUSAN McCARTNEY

Mayor

Tel/Fax: (973) 325-4160

Email: Engineering@westorange.org

ZAYIBETH CARBALLO

Director/Municipal Engineer

REQUEST FOR INFORMATION NO. 1

TO: To All Prospective Consultants

FROM: Zayibeth Carballo, Director of Engineering/Municipal Engineer

PROJECT: Luddington Road – Sidewalk Panel Replacement

DATE: November 20, 2025

Additional information regarding the existing culvert and sewer system was requested.

Question: “Is there any culvert information that can be provided, even the Township storm sewer mapping of area will be helpful”.

➤ **Response:** The enclosed maps and drawings are being provided for your reference.

Drawing 1. Alternate Outlet Tunnels Thru First Mountain
Drawing 2. Record of Ramp Portal at Easterly Entrance of Luddington Rd. Tunnel
Drawing 3. Details of Ramp Portal at East Entrance to Luddington Rd. Tunnel, 10/12/31
Drawing 4. Details of Ramp Portal at East Entrance to Luddington Rd. Tunnel, 10/31/31

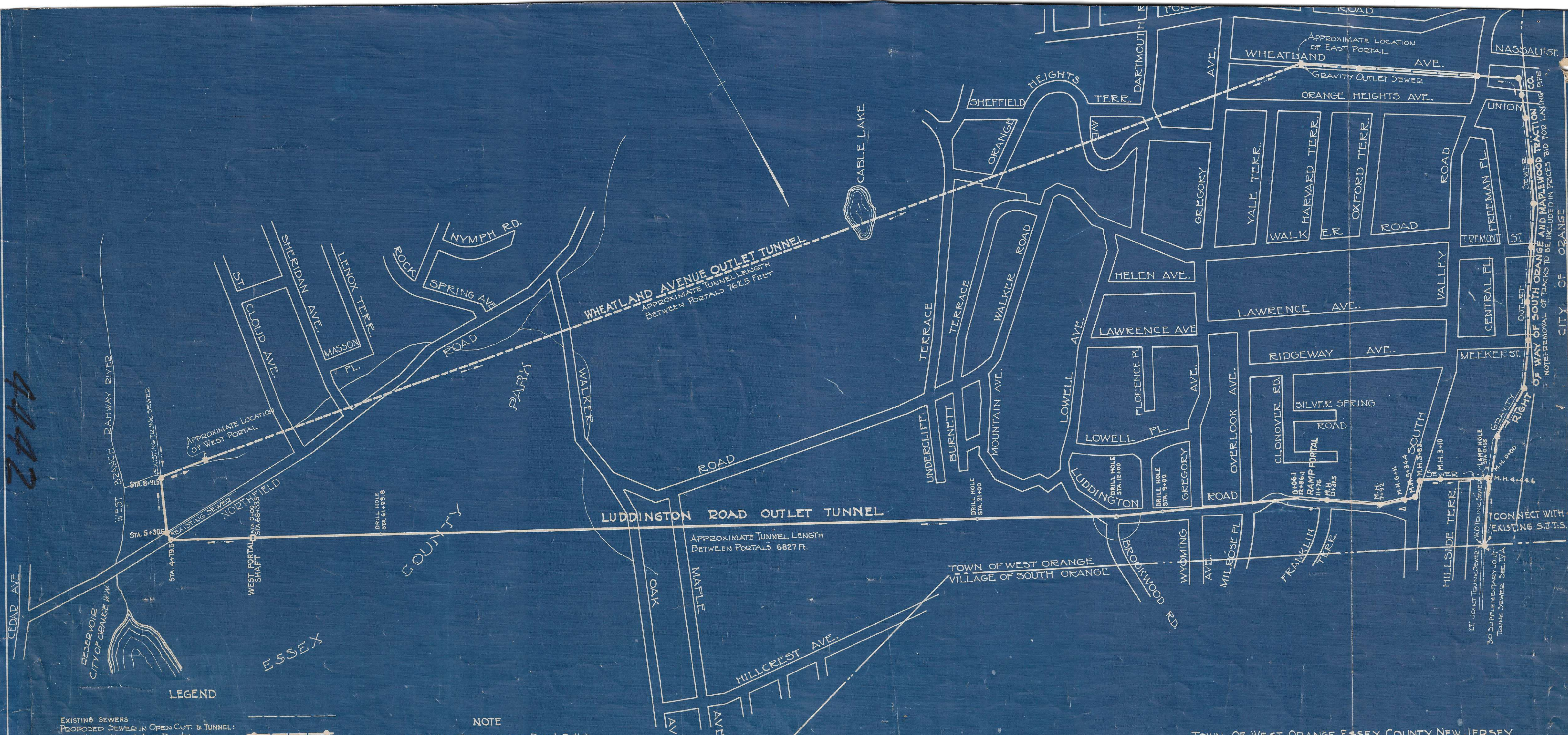
Also, see link to the Township’s Stormwater Information page on our website:

Link: <https://www.westorange.org/1862/Stormwater-Information>

Please be advised that the deadline for submitting proposals has been changed from December 1st, 2025 to **Friday, December 5th, 2025 on or before 10AM.**

ZYC/tb

4442



LEGEND

EXISTING SEWERS
PROPOSED SEWER IN OPEN CUT & TUNNEL:
Wheatland Ave. Route
SEWERS CONSTRUCTED IN OPEN CUT & TUNNEL:
LUDDINGTON ROAD ROUTE

NOTE

For Profile of Luddington Road Outlet Tunnel and Gravity Outlet to Section 4A of the Supplementary Joint Trunk Sewer see Sheet No. 2.

For Profile of Wheatland Avenue Outlet Tunnel and Gravity Outlet to Section 4-A of the Supplementary Joint Trunk Sewer see Sheet No. 3

W.O. "B"
16/1
E.S. 29/9/30
E.S. 30/9/30
EDM. 19/1/30

REVISED AS CONSTRUCTED Aug. 1933

TOWN OF WEST ORANGE ESSEX COUNTY NEW JERSEY
COMPREHENSIVE SEWER SYSTEM
FOR THE AREA BETWEEN FIRST AND SECOND MOUNTAINS
**ALTERNATE OUTLET TUNNELS
THRU FIRST MOUNTAIN**

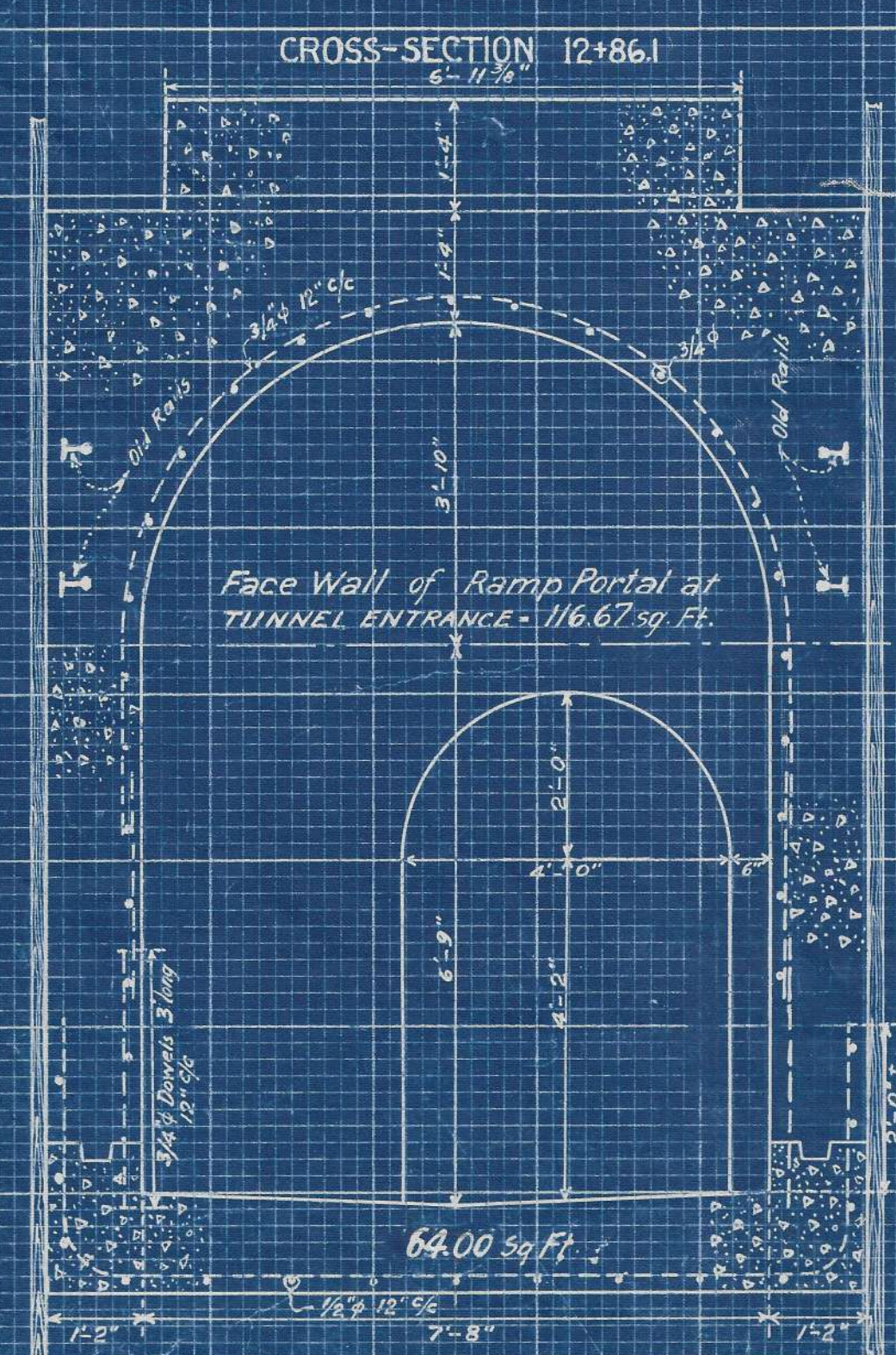
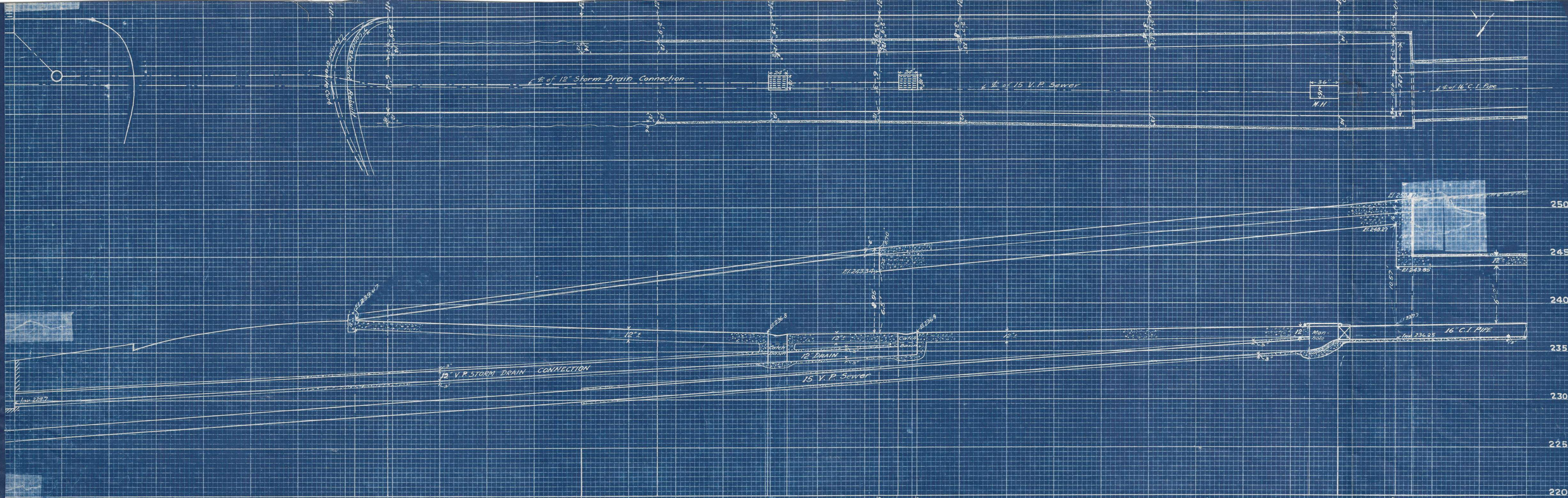
WITH GRAVITY OUTLET SEWERS
CONNECTING TO SECTION 4A
S.J.T.S.

HORIZONTAL SCALE: 1" = 100'

30 CHURCH ST.
NEW YORK CITY

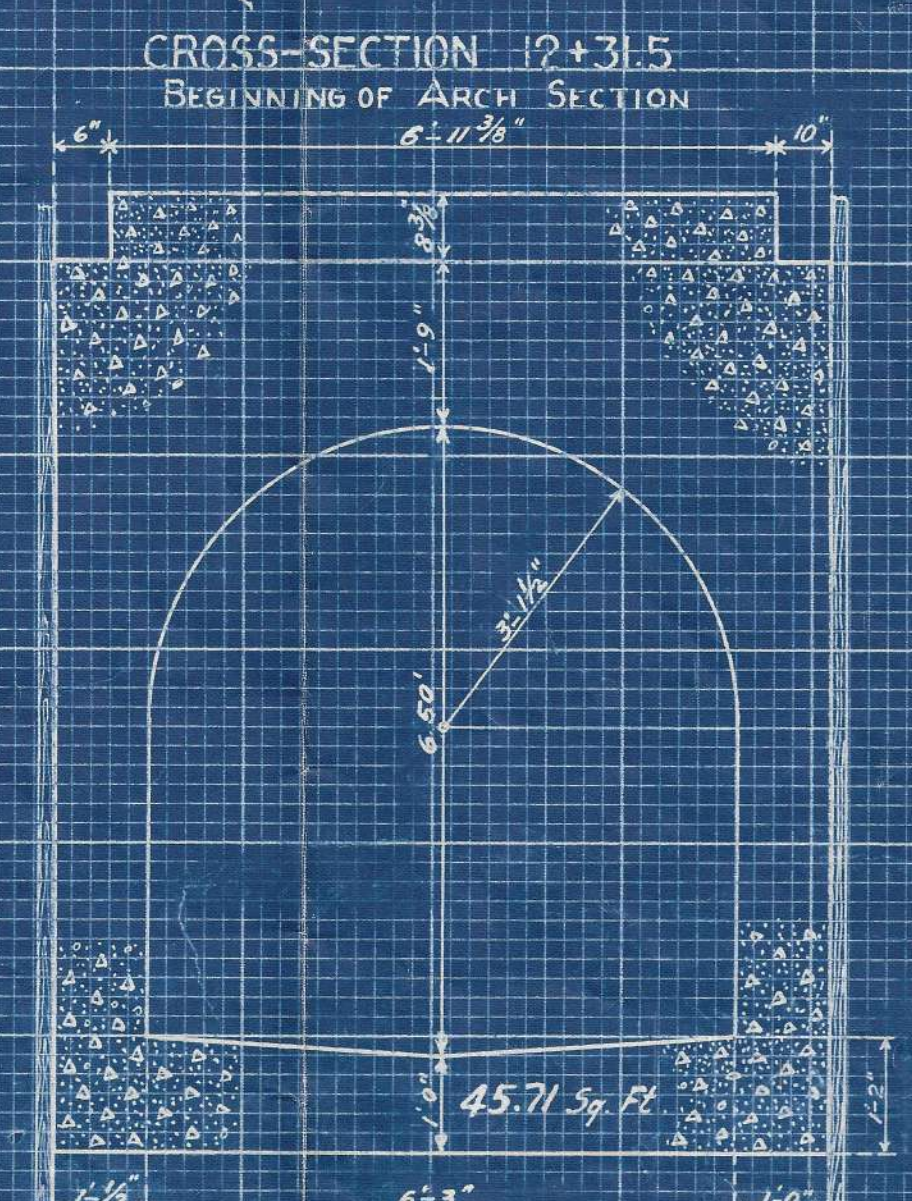
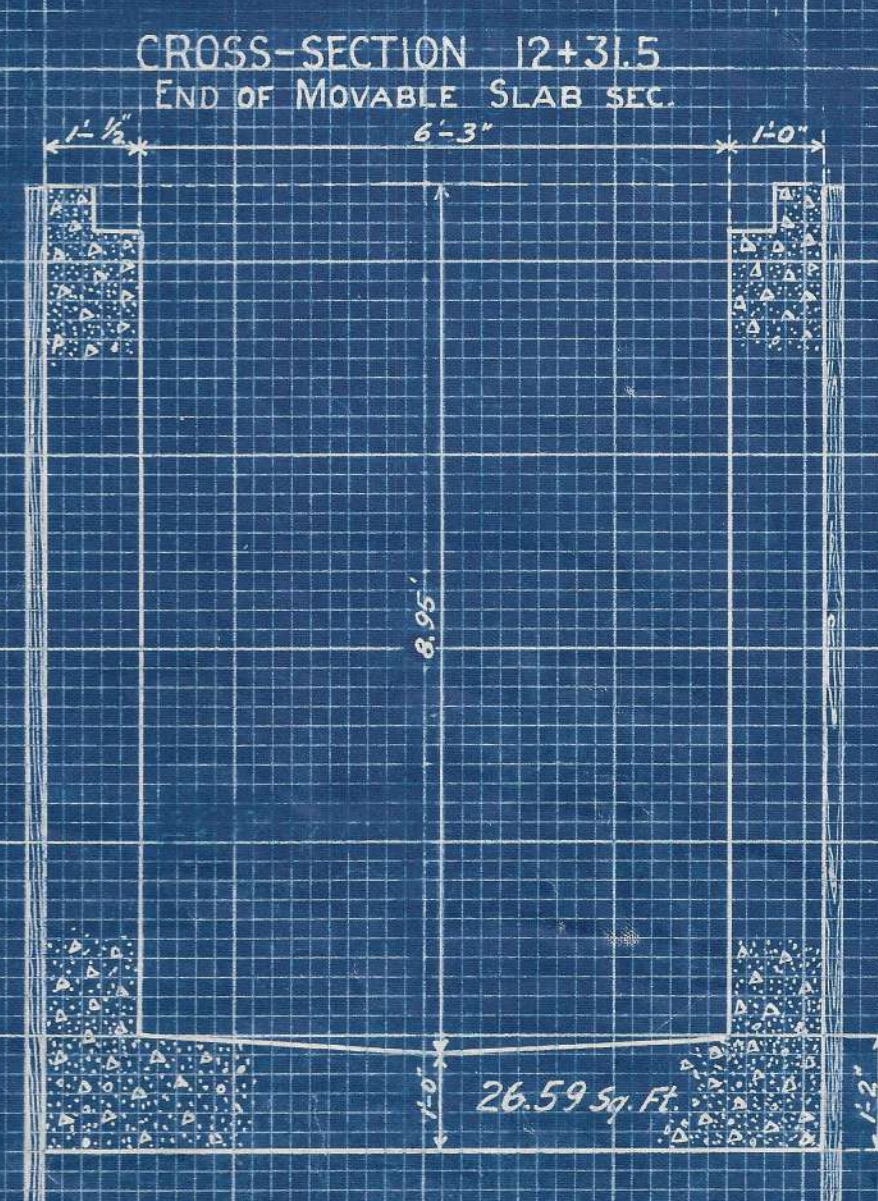
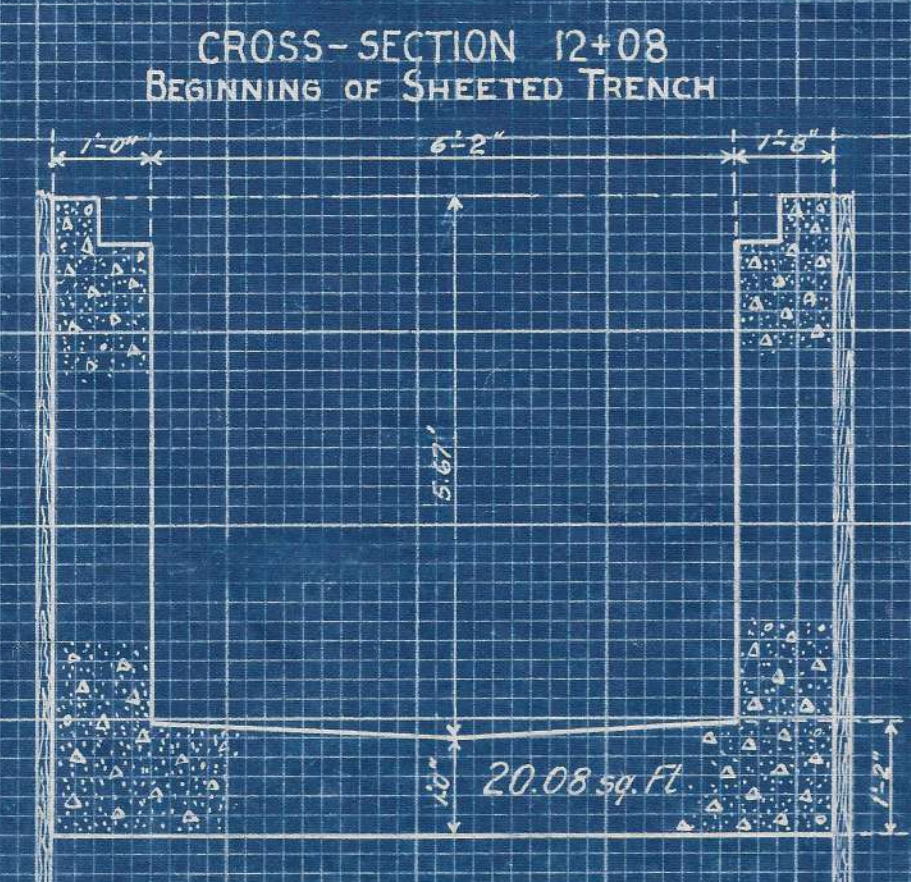
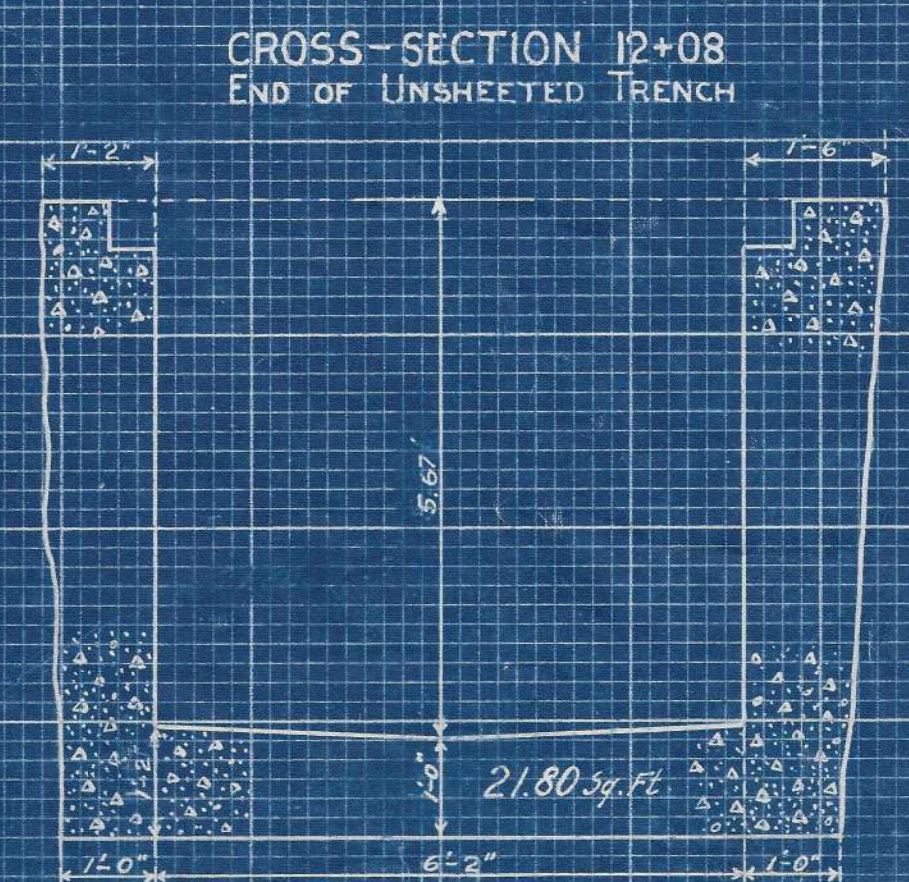
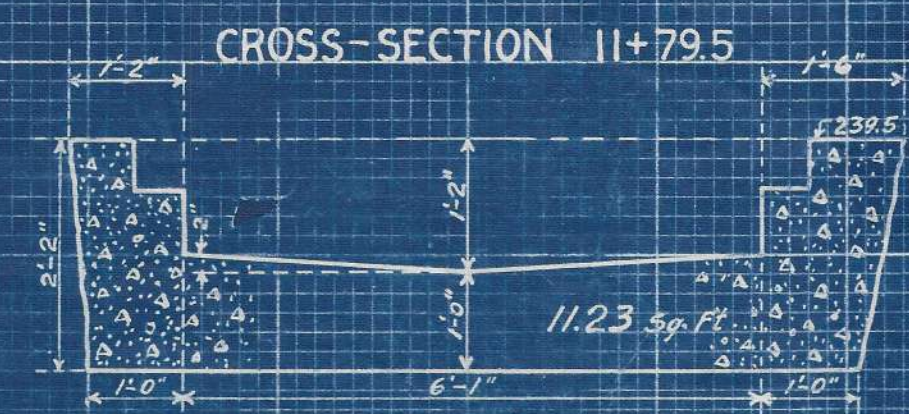
SEPT. 1930

Alvan B. Potts
CONSULTING ENGINEER



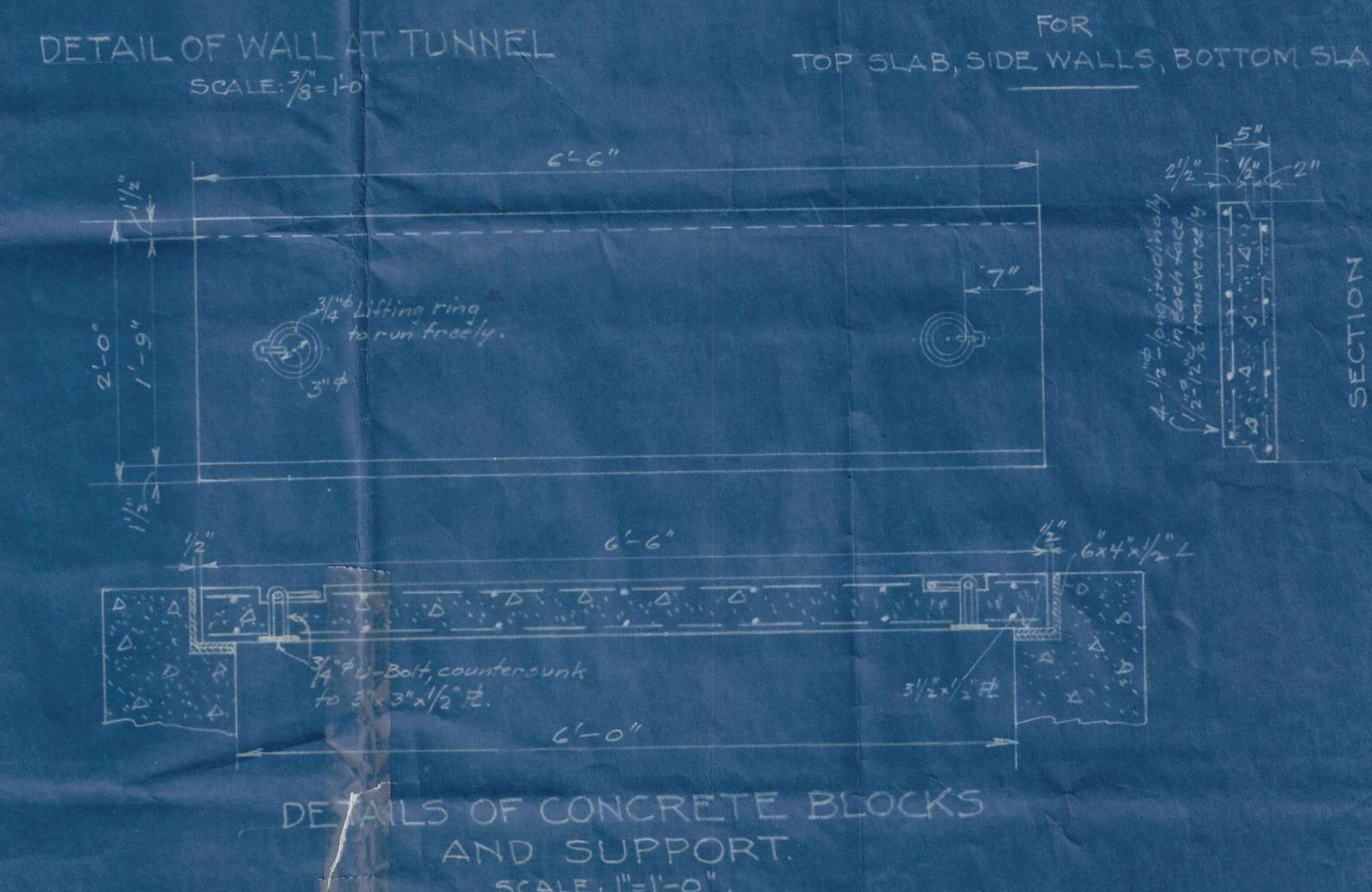
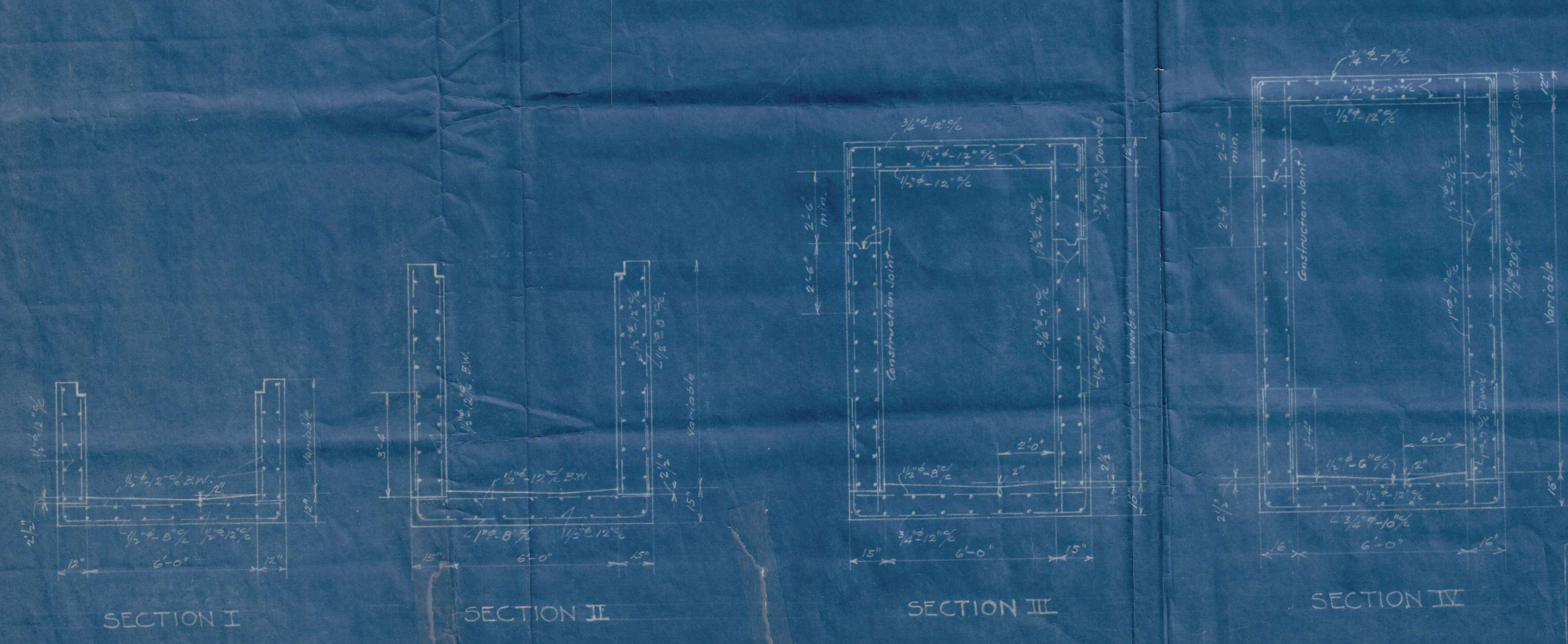
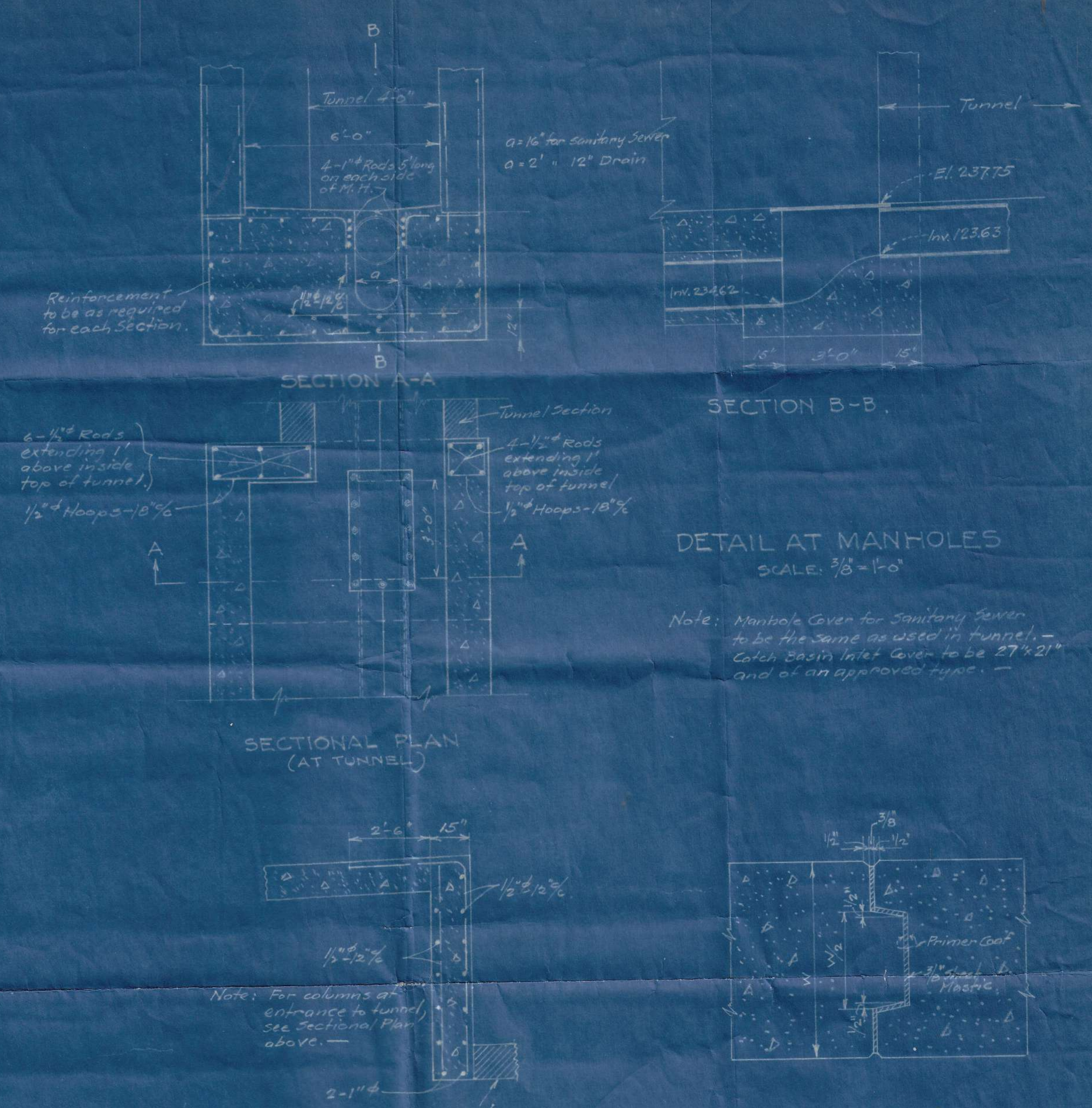
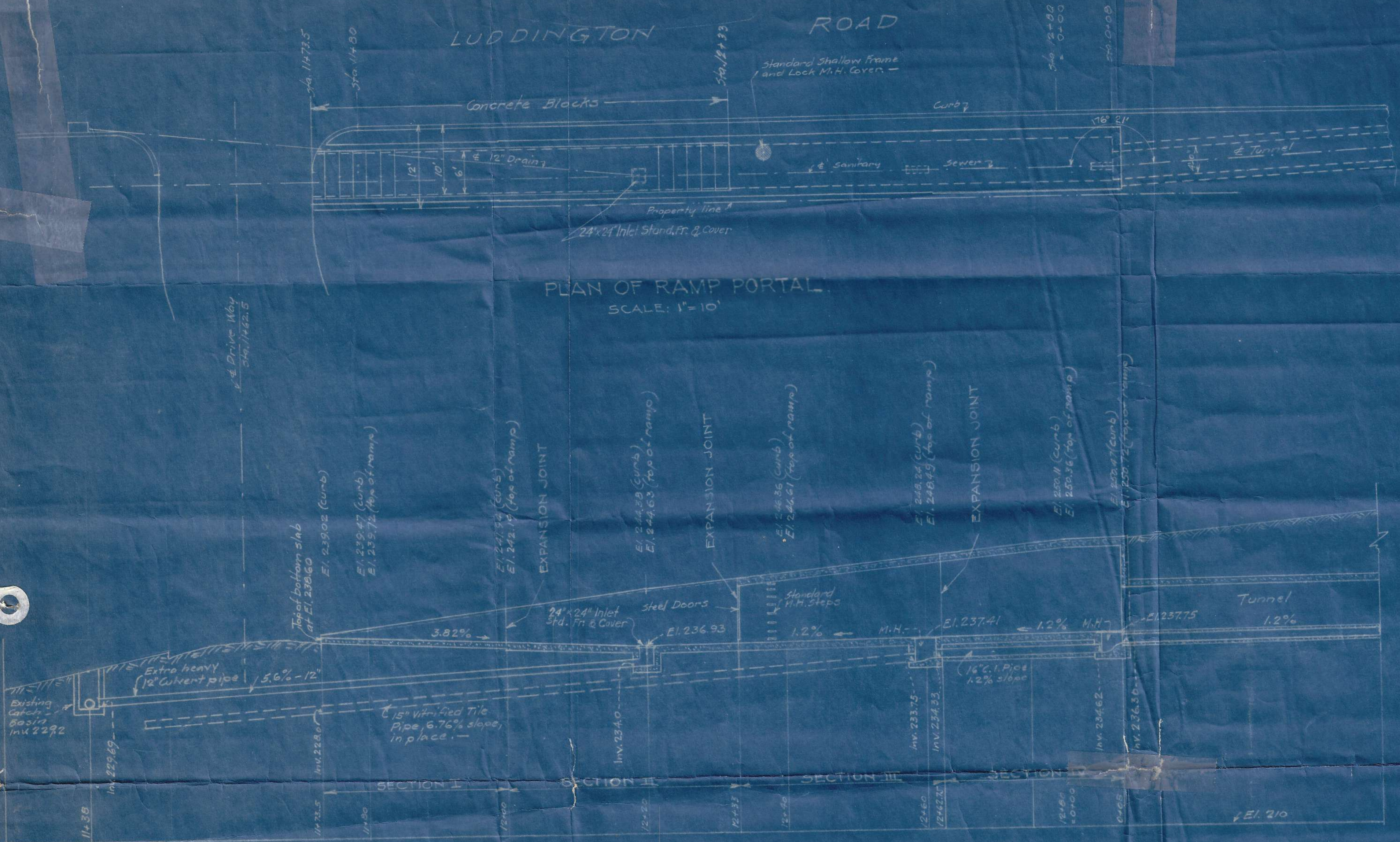
CONCRETE QUANTITIES

Sta. 11+76 to 11+79.5 = $3.5 \times \frac{92+11.2}{2} =$	36.575 cu. ft.
" 11+79.5 to 12+08 = $28.5 \times \frac{112+21.8}{2} =$	470.820 "
" 12+08 to 12+31.5 = $23.5 \times \frac{21.8+26.53}{2} =$	548.490 "
" 12+31.5 to 12+31.5 = $0 \times \frac{45.71+46.00}{2} =$	0.000 "
" 0+061 to 0+078 = $17 \times \frac{116.67}{2} =$	198.339 "
Movable Slab: Sta. 11+76 to 12+31.5 = $(55.5 \times 6.17) \div 2 =$	5.97 "
TOTAL RAMP PORTAL:	163.36 cu. yds.



WEST ORANGE, N. J.
RECORD OF RAMP PORTAL
AT
EASTERLY ENTRANCE OF LUDDINGTON RD. TUNNEL
SCALE: PLAN & PROFILE 1"=5'
CROSS-SECTIONS 1"=2'
50 CHURCH STREET
NEW YORK CITY
DECEMBER 1931
ALEXANDER POTTER
CONSULTING ENGINEER

4436

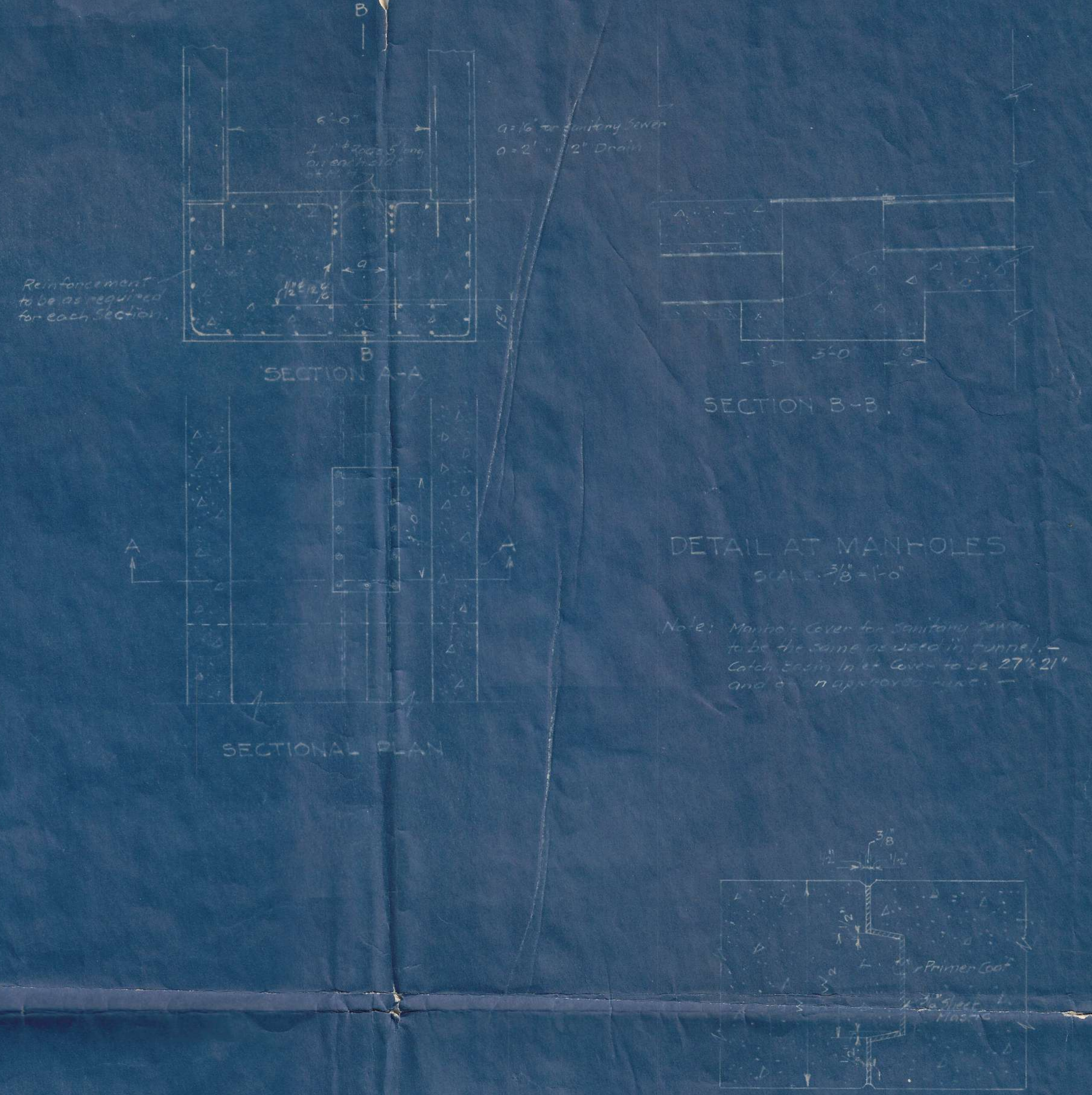


ALEXANDER POTTER
CONSULTING ENGINEER
DESIGNED BY P.S.
CHECKED BY P.S.
REVISED BY P.S.
APPROVED BY P.S.

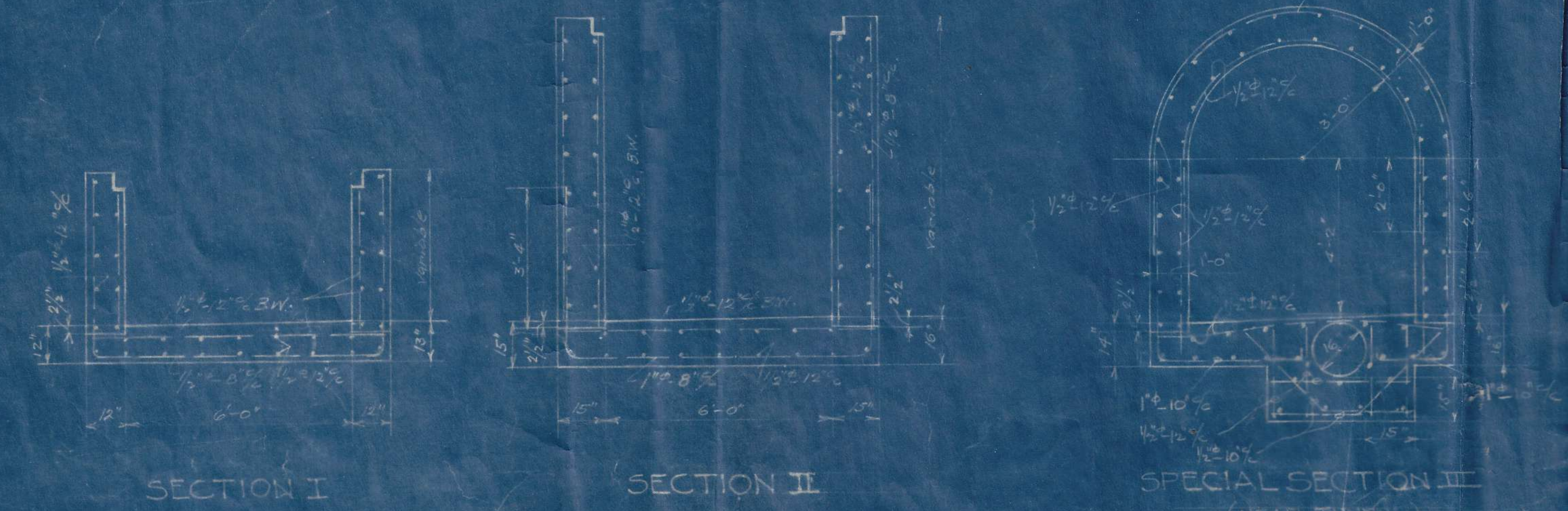
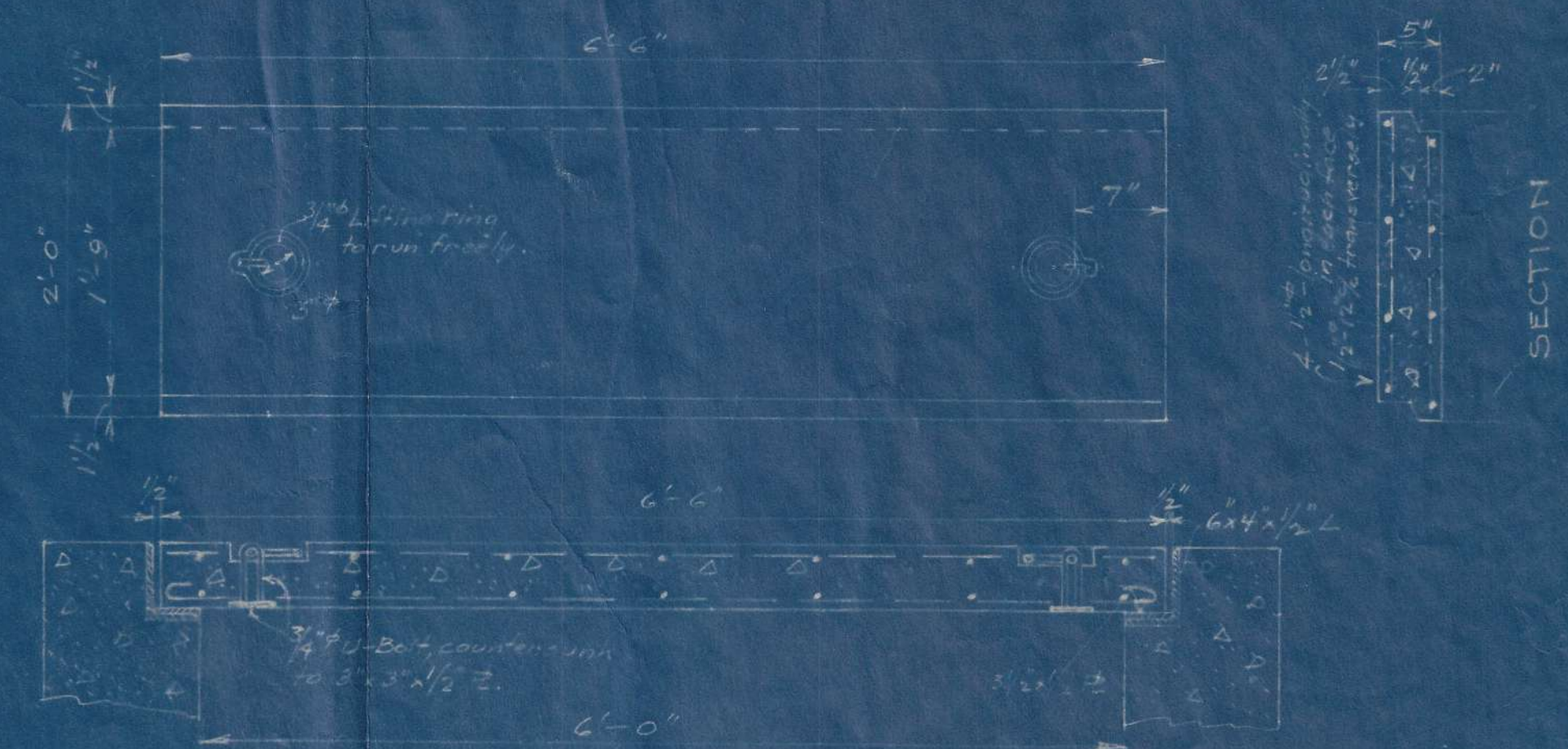
WEST ORANGE, N.J.
CONTRACT "B"
DETAILS OF RAMP PORTAL
AT
EAST ENTRANCE TO LUDDINGTON RD TUNNEL
SCALE: AS SHOWN
NEW YORK CITY 10-12-31 CONSULTING ENGINEER



SECTION THROUGH RAMP PORTAL
SCALE: 1"=10'



TYPICAL EXPANSION JOINT
FOR
TOP SLAB, SIDE WALLS, BOTTOM SLAB



STANDARD SECTION III
Same as above except for bottom. Thickness of bottom slab to be as indicated. Steel in bottom slab to be carried thru 11' x 10' x 10'.

ALEXANDER POWER
DESIGNED BY
CHECKED BY
APPROVED BY
DATE: 10/31/51

WEST ORANGE, N.J.
CONTRACT NO. 1
DETAILS OF RAMP PORTAL
AT
EAST ENTRANCE TO LUDDINGTON RD TUNNEL
SCALE: AS SHOWN
50 CHURCH ST.
NEW YORK CITY
CONSULTING ENGINEER



**Consulting & Municipal
ENGINEERS**

1460 Route 9 South
Howell, NJ 07731
732.462.7400 ☎
www.cmeusa1.com 🌐

December 5, 2025

Sent Via Electronic Mail

Township of West Orange
Department of Public Works
25 Lakeside Avenue
West Orange, NJ 07052

Attn: *Zayibeth Carballo, PE, PLS, PP, CME, CFM, CFS*
Municipal Engineer

Re: ***Professional Engineering & Surveying Services***
Luddington Road – Sidewalk Panel Replacement
West Orange, New Jersey
Proposal No. 2025-150

Dear Ms. Carballo:

We are pleased to submit our proposal for Professional Engineering and Surveying Services for the Luddington Road Sidewalk Panel Replacement. Based on our review of the RFP provided to our office, the improvements will include the replacement of existing precast concrete sidewalk panels covering an existing drainage culvert within the Township Right-Of-Way at 25 Luddington Road. The existing precast sidewalk panels are in disrepair and need replacement. Based on the above, we propose the following scope of services:

1. **Land Surveying Services**

Under this task, we will prepare an existing conditions plan to be utilized for the design of the improvements. The services will include the following:

- a. Prepare a topographic survey and base mapping suitable for the proposed improvements;
- b. Establish horizontal control based on current New Jersey State Plane Coordinate System and Vertical Datum;
- c. Set Benchmark(s) on site for future use;
- d. Prepare an Existing Conditions/ Survey Control Plan; and,
- e. Coordinate utility mark-outs.



Township of West Orange
Re: Professional Engineering & Surveying Services
Luddington Road – Sidewalk Panel Replacement

December 5, 2025
Our File No. 2025-150
Page 2

2. Civil Engineering Services

The services under this task will include the following services:

- a. Design the existing pre-cast concrete sidewalk panels covering the existing drainage culvert;
- b. Design and prepare contract drawings and specifications for replacing the existing pre-cast concrete sidewalk panels covering the existing drainage culvert. The plan set will include, but not limited to, the following sheets:
 - Cover Sheet
 - Existing Conditions/Survey Control Plan
 - Demolition Plan
 - Construction Plan
 - Traffic Control Plan
 - Construction Details
- c. Attend four (4) meetings with the Township;
- d. Prepare a Bid Package that includes construction plans and specifications in accordance with public bidding laws; and,
- e. Provide the Township with plans and specifications in AutoCAD, hard copy, and PDF files.

Summary of Fees

We will provide the necessary engineering services as described above based upon the following lump sum fee amounts:

– Phase I – Land Surveying Services	\$8,000.00
– Phase II – Civil Engineering Services	\$11,500.00
Total Lump Sum Fee.....	\$19,500.00

Schedule

The project will be bid in the first quarter of 2026 with construction to commence in Spring 2026.



Township of West Orange
Re: Professional Engineering & Surveying Services
Luddington Road – Sidewalk Panel Replacement

December 5, 2025
Our File No. 2025-150
Page 3

Construction Administration Phase Services

As requested, we have also included a separate fee for construction administration phase services. Our office will provide construction management of the improvements for the anticipated contract time including the following services:

1. Coordinate and attend pre-construction meeting;
2. Coordinate with the contractor to ensure compliance with the final contract documents;
3. Provide assistance with interpretation of contract documents;
4. Review shop drawings;
5. Provide construction observation services;
6. Prepare progress pay estimates;
7. Prepare punch lists required to be addressed by the contractor prior to close out;
8. Prepare final pay estimate and close out change order; and,
9. Coordinate with the Township and CDBG offices for reimbursement of the respective grant funding.

Total Lump Sum Fee.....\$12,000.00

Exceptions:

- Any work not specified as listed in the above phases shall be considered additional services and will be invoiced at the time said work is authorized by the Township.

Should this fee estimate meet your approval, please provide our office with a professional services agreement or resolution as an indication of the work to proceed. In the meantime, should you have any questions concerning this matter, please do not hesitate to contact this office.

Very truly yours,

CME Associates

A handwritten signature in black ink, appearing to read 'TJ Taylor'.

Trevor J. Taylor, PE, PP, CME
For the Firm

BOSWELL

— EST 1924 —

Proposal

FOR THE PROVISION OF

TOWNSHIP OF WEST ORANGE

LUDDINGTON ROAD –SIDEWALK PANEL REPLACEMENT

LAND SURVEYING, CIVIL ENGINEERING, AND CONSTRUCTION ADMINISTRATION SERVICES

DUE: DECEMBER 1, 2025



330 PHILLIPS AVENUE
SOUTH HACKENSACK, NEW JERSEY
P. 201-641-0770

Engineered For Life

December 1, 2025

Zayibeth Carballo
Director/Municipal Engineer
Department of Engineering
Township of West Orange
25 Lakeside Avenue
West Orange, NJ 07052
zcarballo@westorange.org
973-325-4160

Re: Request for Proposals
Luddington Road – Sidewalk Panel Replacement
File No. PR-25-14284

Dear Ms. Carballo:

Boswell, Inc. (Boswell), in accordance with the Township of West Orange's (Township) Request for Proposals, is pleased to submit one (1) original of our Proposal to provide Professional Engineering Services for the Luddington Road – Sidewalk Panel Replacement project.

For more than 100 years, Boswell has provided a comprehensive range of multi-disciplinary professional engineering and planning services to numerous public sector clients throughout New Jersey. We have established an exceptional reputation in every sector in which we operate. Our projects are accomplished with sound, long-lasting solutions that prioritize our clients' needs and the environments in which they are constructed.

Please note we have updated our company name from "Boswell Engineering, Inc." to "Boswell, Inc." Regardless, some documents within this proposal may still reflect our previous name.

We thank you for the opportunity to submit our Proposal and look forward to our work with the Township. Should there be any questions or if any additional information is required, please do not hesitate to contact me (201-641-0770 / pferriero@boswellengineering.com).

Very truly yours,



Paul W. Ferriero, PE
Vice President Municipal Services

PWF/sc
Enclosures

TABLE OF CONTENTS

SECTION I – Administrative Information

SECTION II – Professional Information

SECTION III – Representative Projects

SECTION IV – Key Personnel

SECTION V – Lump Sum Fee and Hourly Rates

SECTION VI – Boswell Licenses and Certificates



SECTION I – Administrative Information

Based on our review of the Scope of Services, **Boswell Inc. (Boswell)** has a full understanding of all work necessary to complete the Luddington Road Sidewalk Panel Replacement in the Township of West Orange (Township). The firm has successfully completed numerous projects of similar scope and is committed to delivering personalized service commensurate with the professional service needs of the Township. **Boswell** is headquartered in South Hackensack with offices in Chester and Hopewell, New Jersey, with additional offices in New York State. We have personnel located in the area who are readily available to complete the requisite work. **Boswell's** team possess the in-house capabilities and local resources to successfully provide a comprehensive range of services to the Township.

South Hackensack (Corporate Headquarters)

330 Phillips Avenue
South Hackensack, NJ 07606
Tel: 201-641-0770

Hopewell New Jersey Office

17 Model Avenue
Hopewell, NJ 08525
Tel: 609-466-0002

Chester New Jersey Office

180 Main Street
Chester, NJ 07930
Tel: 908-879-6209

Officer-in-Charge: Kevin J. Boswell, PE, PP, CME
President and CEO

Key Contact: Joseph S. Kosinski, PG, CFM, LEED AP
Department Head – Site/Civil Engineering

Firm Qualifications

Boswell is a leading, fully integrated, multi-disciplinary engineering and consulting firm, providing a comprehensive range of engineering and power & energy services. **Boswell**, with its extensive professional engineering experience, is currently ranked nationally among Engineering News Record's (ENR) Top 500 Design and Top 50 Construction Management firms; regionally among ENR's Top Design Firms in the NY/NJ Metropolitan area; and statewide among NJBiz's Top 25 Engineering and Top Environmental firms. Since its founding in 1924, **Boswell** has kept pace with the rapidly changing technological advancements in the industry in order to consistently provide clients with current and up-to-date professional services. With over 300 employees, **Boswell** is recognized as one of the largest and most diverse engineering firms in the State of New Jersey. Our contingent of over 100 licensed and certified professionals possess the requisite background and technical experience to successfully provide multi-disciplinary engineering services regionally, statewide, and locally throughout New Jersey and New York.

Boswell's outstanding history of engineering accomplishments is long, beginning as a two-man field office concentrating on surveying and civil engineering. For more than 100 years, **Boswell** has successfully demonstrated its extensive experience in all aspects of professional engineering and power & energy services to federal, state, county, and local governmental agencies, as well as private-sector clients throughout the State of New Jersey. **Boswell** has established an exceptional reputation in every sector in which we operate. The firm's projects are completed with sound, long-lasting solutions that prioritize our clients' needs.

Boswell's contingent of licensed and certified professionals include: New Jersey Licensed Professional Engineers (PE); Certified Municipal Engineers (CME); licensed Professional Planners (PP); Certified Public Works Managers (CPWM); Licensed Site Remediation Professionals (LSRP); Certified Flood Plain Managers (CFPM); LEED Accredited Professionals (LEED-AP); Certified Professional Traffic Operations Engineers (PTOE); Certified International Municipal Signal Association Professionals (IMSA); Certified Landscape Designers; Board Certified Environmental Engineers (BCEE); Professional Land Surveyors (PLS); and, NICET Certified Construction Inspectors. These licensed and/or certified individuals provide a broad base of support with professional, managerial and administrative capabilities to provide their requisite expertise on the varied projects.



Township of West Orange Department of Engineering
Land Surveying and Civil Engineering Services –
Luddington Road – Sidewalk Panel Replacement

Boswell has a long history of providing consulting services to numerous New Jersey municipalities on a variety of public works, infrastructure and infrastructure maintenance, and environmental projects. These services include design, planning and analysis, engineering/environmental reports, surveys, and construction phase engineering associated with: roadway improvements; intersection improvements; traffic studies; signalization; streetscapes; development and redevelopment; curbs, sidewalks, and handicap ramps; safe routes to school; complete streets; safe streets to transit; pavement management; bridges and culverts; green infrastructure; stormwater management; drainage systems; parks and recreational facilities; emergency infrastructure and structural investigations; water systems; storm and sanitary sewers; pump stations; flood control; environmental studies and assessments; regulatory permitting; environmental compliance; site remediation; LSRP services; FEMA studies; site plans, subdivision and variance application review; municipal land use; master planning, COAH; preparation and updating of digital tax maps; geographic information systems (GIS); asset management; infrastructure maps; zoning map updates; preparation of bid documents; and engineer's cost estimates. We have also partnered with respected geotechnical and mechanical, electrical, and plumbing (MEP) engineers for the delivery of building projects.

Through its long history of excellence, **Boswell** has consistently demonstrated its ability to assist public sector clients with regulatory compliance at the federal, state, regional & local levels of government, independent planning commissions, and non-profit organizations. We have established an excellent professional relationship with planning and engineering departments across such New Jersey organizations as NJDOT, NJDEP, NJDCA, NJ Transit, County Soil Conservation Districts, multiple Municipal Utilities Authorities. We have also established a strong reputation with many utility entities, including Veolia New Jersey, PSE&G, and First Energy. This experience has fostered considerable knowledge and expertise related to: Municipal Land Use; the Council on Affordable Housing (COAH), Fair Share Housing Center (FSHC), NJDEP Land Resource Protection regulations, NJDEP Water Quality regulations, NJ Stormwater Management regulations; AASHTO and MUTCD regulations; ADA regulations; NJDOT Local Aid projects.

Boswell also has the capability to assist its clients in accessing grants and other forms of funding. Since 2016 the firm has successfully prepared and submitted:

- Over 200 NJDOT Local Aid applications which have resulted in the award of Local Aid Grants totaling more than \$50 million;
- NJDOT Special Transportation Aid projects
- Federal Community Development Block Grant Program (CDBG)
- NJDEP Green Acres Grants Program;
- New Jersey Infrastructure Bank (NJIB) totaling more than \$198 Million.

In addition, **Boswell** is proficient in its ability to assist clients in areas such as administrative and planning, capital programming, pavement management, recreational facilities, public bidding, GIS/Asset Management support, grants and low interest loan applications, land use, master planning, and infrastructure maintenance.

Boswell ensures that the professional services rendered satisfy the established goals while maintaining total project control, a high level of technical quality, and project completion within the project's schedule and budget. The firm's Quality Management Plan (QMP) consistently meets our client's needs in the most professional, cost-effective, and efficient manner. This procedure serves to ensure delivery of a quality product, exceeding expectations, providing services in a timely manner, and ultimately resulting as a benefit to the taxpayers. **Boswell** achieves this goal by working in partnership with our clients, contractors, and all project stakeholders. We utilize Primavera P6 as our Project Portfolio Management (PPM) tool and have experienced project managers and schedulers building project planning and control systems and providing updates as each project develops from preliminary design to final design.

For projects requiring multiple engineering disciplines, the designated team representative serves as the single point of contact for our clients and has the primary responsibility of monitoring and coordinating the project team to ensure all aspects of the scope of work are properly evaluated and technically performed. Regular team meetings are held to review project status, integrate phases, identify potential problem areas, and implement corrective



Township of West Orange Department of Engineering
Land Surveying and Civil Engineering Services –
Luddington Road – Sidewalk Panel Replacement

measures to avoid project delays and ultimately to keep the project within the approved budget. A monthly report is typically submitted to the governing body detailing the progress and status of each active project.

Boswell's corporate headquarters is located approximately 21 miles / 30 minutes from the Township. **Boswell** is well-suited to promptly accommodate meetings with the Township officials and staff, utility companies, residents, and/or any individuals/entities as directed by the Township. This close proximity enables our team to attend meetings as required, provide on-site support, and be responsive on a 24/7 basis to any emergent situation in an expeditious and efficient manner. **Boswell's** established presence and experience in Essex County continuously demonstrates our familiarity with local permitting, utility coordination, and stakeholder expectations.



SECTION II – Professional Information

Firms Understanding of Purpose/Goals/Objectives

Boswell understands that the Township intends to replace the existing, dilapidated concrete sidewalk in the vicinity of 25 Luddington Road within the Township. **Boswell** has reviewed all available documents, including tax maps, topographic data, aerial photography and NJ Geoweb data, to ensure thorough understanding of the site conditions and project scope. Successful completion of the project will require a comprehensive land survey, civil engineering design, permit application, public bid assistance, and construction administration, which will be executed with a collaborative, transparent, and schedule-conscious methodology in alignment while enhancing vital infrastructure for the community.

Scope of Services

Boswell will provide land surveying and civil engineering services to commensurate with the needs of the Township. These services include, but are not limited to, the following:

1. Land Surveying Services

Boswell's survey field crew will perform a topographic and existing conditions survey within the existing right-of-way of the project area, and beyond, as necessary, locating and obtaining elevations on all existing features including, but not limited to, curbs, walks, fences, visible utilities and utility mark-outs, trees with calipers of 6 inches and greater, landscaping area and shrubs. **Boswell** will also field survey all drainage and sanitary facilities (with invert elevations) within the project limits obtaining pipe elevations and approximate pipe sizes from above ground. This proposal does not include entering confined space for exact measurements. The plotted locations of underground sanitary and drainage pipes will also be approximate. Topographic contours will be generated from the survey data in one (1) foot intervals and spot elevations will be shown as necessary (high points, low points, etc.).

Boswell will perform the necessary field surveying to locate property corners and other items which may indicate lines of possession, perform land records research, and perform an analysis comparing recorded data to field locations. The right-of-way-lines and property lines will be based upon the current deed of record and maps on file with the Essex County Clerk's Office.

The horizontal datum of North American Datum of 1983 (NAD 83) and the vertical datum of North American Datum of 1988 (NAVD 88) will be established by means of GNSS/RTK surveying utilizing the SmartNet North America Network. A bench mark will be set and properly identified within the project limits in an area to be unaffected by construction, and will be tied to physical features.

2. Civil Engineering Services

Boswell's professional civil engineering team will deliver a comprehensive set of design plans and bid documents to support the successful replacement of the sidewalk panels. Our scope includes the preparation of three (3) full-color renderings to aid in visualization, and the design of site-specific improvements such as stormwater management and drainage systems appropriate for a minor development. **Boswell** will provide detailed design plans for the rehabilitation and replacement of the public sidewalk along Luddington Road. The full plan set will consist of, but is not limited to, a Cover Sheet, Existing Conditions/Survey Control Plan, Demolition Plan, Construction Plan, Grading and Utility Plan, Soil Erosion and Sediment Control Plan, Construction Details and Traffic Control. **Boswell** does not anticipate the need for a certification from the Hudson-Essex-Passaic Soil Conservation District. **Boswell** will facilitate four (4) key meetings with Township Officials and the West Orange Police Department to review the Kickoff, Preliminary Design, Traffic Control and Final Design phases. A complete Bid Package, including plans and construction specifications compliant with public bidding laws, will be provided. **Boswell** will also provide all bidding documents to the Township in AutoCAD, PDF, and hard copy formats.



3. Construction Administration Services

Boswell brings a full spectrum of construction management services to bare on complex construction projects. We routinely oversee every phase of construction for municipal, infrastructure, and public works projects. Our NICET certified inspection staff have received formal training in Work Zone Safety and Maintenance and Protection of Traffic in accordance with NJDOT and MUTCD standards as well as OSHA Safety Training. Our expertise not only ensures that the constructed product confirms with its design, but that the delivery of that product occurs smoothly and safely.

We achieve this by being involved in the implementation of all aspects of the design's construction. For this project, our personnel will:

- Review project layout at the project outset;
- Coordinate with utilities both on and offsite;
- Confirm implementation of and continual compliance with the construction plans;
- Coordinate with local police;
- Coordinate with local Department of Public works personnel;
- Respond to public complaints quickly; and
- Continually communicate with the contractor.

In our day-to-day activities, we will inspect all aspects of ongoing construction to ensure that the final project is in accordance with the contract documents. Those inspections include:

- Protection of utilities and coordination with utilities companies;
- Inspect subgrade & subbase preparation for the proposed concrete walkway;
- Inspect construction layout;
- Oversee the Contractor's implementation of erosion and sediment control practices during construction;

Administratively, our Construction Inspection team will provide the following services:

- Coordinate the pre-construction meeting with the contractor, Township officials, applicable utility companies and other interested parties;
- Track all RFI's and Shop drawings for the project, disseminate to the designer and return to the contractor.
- Measure and confirm all payment item quantities in the field;
- Conduct construction progress meetings with the Township, as required;
- Review the contractor invoices and prepare the necessary estimate certificates for County approval;
- Maintain an ongoing list of construction deficiencies and ensure their resolution;
- Prepare final as-builts of the project; and
- Prepare the final payment voucher and change order, if required, for submission to the County.

Our Construction Administration Support Services are based on an assumed Construction duration of three (3) weeks, requiring part-time on-site administrative and construction oversight support (20 hours/week) and approximately two (2) hours per week of off-site project management support. However, the total fee for the anticipated construction administration services as proposed by **Boswell** will be commensurate with the actual field and administrative support requested by the Township. There will be a considerable savings if the project is completed within a shorter timeframe.

Project Schedule

Boswell understands that the Township intends to bid the project by the first quarter of 2026, with construction commencing during the second quarter of the same year. Upon notice to proceed, **Boswell** will complete the design and bid documents within **sixty (60) calendar days**. **Boswell** anticipates that the proposed construction will be completed within **twenty-one (21) calendar days**.



Qualifications of the Project Manager and Key Staff

Boswell has selected a highly skilled and knowledgeable team under the direction of Kevin J. Boswell, PE (Officer-In-Charge) and Joseph S. Kosinski, PG, CFM, LEED AP (Department Head – Site/Civil). Mr. Kosinski will ultimately be responsible for the quality and timeliness of all projects performed on behalf of the Township. The firm will utilize our established procedures and document control to maintain efficient communication among team members and with the Township. The following is **Boswell's** proposed team to provide engineering design, survey and construction administration/inspection services for the Luddington Road Sidewalk Panel Replacement:

- Kevin J. Boswell, PE, PP, CME – President and CEO (Officer-In-Charge)
- Joseph S. Kosinski, PG, CFM, LEED AP - Department Head, Site/Civil Engineering (Project Manager)
- Derek M. Hughes, PE – Deputy Department Manager Construction Management/Inspection
- Frank M. Krupinski, PLS - Director of Survey

Kevin J. Boswell, with more than 42 years of experience in the civil, municipal and environmental engineering, presently serves as **Boswell's** President and Chief Executive Officer. In addition, Mr. Boswell is also a Certified Municipal Engineer (CME) and a licensed Professional Planner. As a recognized expert in his field, Mr. Boswell has served as an expert witness for numerous public and private entities in litigation, arbitration, and mediation proceedings. Under his leadership, Mr. Boswell continues to play a significant role in the future for federal, state, and local governmental agencies as well as private sector clients and utility companies. His civil and environmental expertise includes an extensive working knowledge of site development, roadway design, water and wastewater systems, as well as treatment and pumping facilities. Mr. Boswell has served as the project leader on a wide array of site development projects in the private sector serving residential, commercial, and industrial real estate. His projects involve environmental permitting, as well as testimony before numerous Municipal, County, State and Federal agencies.

Joseph S. Kosinski, PG, CFM, LEED AP, has over 27 years of experience in Site/Civil Engineering. Mr. Kosinski's experience includes the planning and design of civil engineering projects from conception through completion, ensuring adherence to project specifications, budgets, and timelines, while exceeding standards of quality. Mr. Kosinski has successfully completed multiple New Jersey park and recreational projects as a designer and Project Manager.

Derek M. Hughes, PE, is a seasoned professional with over 30 years of experience in the construction industry. Mr. Hughes possesses start-up experience with outstanding presentation and customer service skills. His specialties include design, commissioning, materials testing and special inspections. Mr. Hughes has the ability to multi-task and delegate effectively for multiple clients and project needs with excellent PC skills including Microsoft Word, Excel and Project.

Frank M. Krupinski, PLS, has over 41 years of experience in the field of surveying and has been a licensed land surveyor in the State of New Jersey for 31 years. Mr. Krupinski has performed and supervised thousands of surveys over the course of his career, prepared numerous complex boundary surveys, and has directed boundary and topographic/utility surveys for hundreds of municipal water, wastewater, and drainage projects. In total, **Boswell** has three (3) licensed professional land surveyors on staff, all highly capable of providing their survey knowledge, conflict resolution skills and, if necessary, expert testimony to the County.

Resumes of Key team members are included in Section IV.

Boswell Team Relevant Projects

Boswell's representative projects have been carefully selected to demonstrate our team's relevant experience. The selected projects highlight how the firm has successfully completed numerous pedestrian access and public sidewalk improvement projects for our clients (Section III).

BOSWELL

University Police Department ADA Ramp Reconstruction Township of Little Falls, Passaic County, New Jersey



CLIENT

Montclair State University
1 Normal Avenue
Montclair, NJ 07043

CONTACT

Adam McGuire
Project Manager
Capital Planning & Project
Management
973-655-7789
mcguirea@montclair.edu

CONSTRUCTION COST

\$200,000

COMPLETION DATE

2025

DISCIPLINES INCLUDED

Survey
ADA Design
Structural
Construction Administration

Montclair State University engaged Boswell to reconstruct the existing ADA ramp located at the main entrance to the University Police Department building. The existing entrance was not compliant with ADA standards. Non-complaint items included a door threshold which was not flush, inadequate guard rail fall protection, and slopes which did not meet the strict ADA requirements.

The ramp was completely reconstructed to conform to ADA standards, including a compliant railing system. The sidewalk adjacent to the building was raised as a result of correcting the doorway threshold non-compliance. As a result of the ramp reconstruction, modifications to existing modular block retaining wall system fronting College Avenue were required. Proposed improvements also included widening of the existing driveway, which is utilized for prisoner transport and sidewalk & ADA curb ramp reconstruction in front of the main entrance to nearby Red Hawk Parking Deck.

Boswell provided initial project scoping, survey, design, and construction administration services for this project.

Yogi Berra Drive Sidewalk

Township of Little Falls, Passaic County, New Jersey



CLIENT

Montclair State University
1 Normal Avenue
Montclair, NJ 07043

CONTACT

Adam McGuire
Project Manager
Capital Planning & Project
Management
973-655-7789
mcguirea@montclair.edu

CONSTRUCTION COST

\$300,000

COMPLETION DATE

2025

DISCIPLINES INCLUDED

Survey
Roadway Design
Traffic
Construction Administration

Montclair State University engaged Boswell to provide engineering services for the installation of new sidewalk along Yogi Berra Drive. The project included the construction of sidewalk from the CarParc Diem Parking Garage to Yogi Berra Stadium along the west side of the road. Prior to the project, sidewalk existed on the east side, but due to the high pedestrian volumes during game days at the stadium, a second sidewalk was needed. ADA-compliant curb ramps were designed for all crosswalks included within the project limits, which was a challenging endeavor given the grade changes along the road. All curb ramps and sidewalks were constructed in conformance with the ADA Standards and the Public Rights-of-Way Accessibility Guidelines (PROWAG).

In order to facilitate the installation of the new sidewalk between Yogi Berra Drive and the steep slope located near Parking Lot #24, the existing wooden guide rail was replaced with new NJDOT-compliant guide rail. The new guide rail was replaced with the Manual for Assessing Safety Hardware (MASH) crash tested Midwest Guardrail System (MGS), which is the New Jersey Department of Transportation's (NJDOT) standard. In an effort to blend the guide rail with the University's "Spanish Mission" architectural style, the guide rail was specified with a powder coated rustic brown color.

BOSWELL

William Paterson University – West Road Sidewalk Improvements

Township of Wayne, New Jersey (Passaic County)



CLIENT

William Paterson University
300 Pompton Road | Wayne,
New Jersey 07470

CONTACT

William Siegrist, Associate
Director Capital Planning,
Design & Construction
973-720-2352
capitalplanning@wpunj.edu

COMPLETION DATE

2016

DISCIPLINES INCLUDED

Design
Traffic

William Paterson University engaged Boswell to provide design and traffic services for the West Road Sidewalk Improvements.

West Road serves as one of the main entrances (Entry 4) to the campus of William Paterson University. The roadway experiences high vehicular traffic volumes as a result of the nearby commuter student parking lots, the Cheng Library, and several academic buildings. Pedestrian volumes are also significant, as many local restaurants and convenience stores are located within walking distance at the intersection of Hamburg Turnpike and Pompton Road. This project included the removal of the existing parallel parking along west road and construction of a new sidewalk from the Entry 4 entrance at Pompton Road to the plaza in front of Speert Hall. In addition, a mid-block crossing was constructed with flashing pedestrian crossing signs. All curb ramps and sidewalks were constructed in conformance with the Americans with Disabilities (ADA) Standards and the Public Rights-of-Way Accessibility Guidelines (PROWAG). Existing faded traffic stripes and symbols were replaced in order to meet the minimum retroreflective requirements specified in the Manual on Uniform Traffic Control Devices (MUTCD).



Kinderkamack Road Corridor Improvements Borough of Emerson, New Jersey (Bergen County)



CLIENT

Borough of Emerson
146 Linwood Avenue,
Emerson, NJ 07630

CONTACT

Joseph Femia, P.E.
County Engineer
201-336-6805

CONSTRUCTION COST

\$4.4 million

DISCIPLINES INCLUDED

Traffic Analysis
Traffic Signal Design
Transportation Planning
Key Stakeholder Outreach
Standards for Road and
Traffic Improvements
Coordination with Bergen
County, NJDOT and NJ
Transit

The \$4.4 Million Kinderkamack Road Improvement Project involved roadway widening and realignment, two (2) new railroad crossings, new drainage systems, signalization upgrades, curbs, sidewalks, ADA compliant curb ramps and streetscape amenities. This project is the culmination of a considerable effort associated with the studies, planning, property acquisitions, design, public outreach and coordination with local businesses, and construction oversight, as well as extensive interaction with the County of Bergen, NJDOT, NJ Transit, and utility companies.

The project maximizes the roadway's curb-to-curb pavement width and realignment within the building structures lining both sides of the central business district. These improvements were necessitated in order to enhance the safety of pedestrians, commuters and the traveling public through this heavily travelled corridor. The three (3) new computerized traffic signals are traffic responsive to motorists, pedestrians and approaching trains.

The state-of-the-art safety features of these signals include camera detection to alert the signal equipment of the presence of vehicles queuing up on the side streets; audible, countdown, pedestrian actuated push buttons to provide pedestrians sufficient crossing time; and, technologically advanced railroad crossing circuitry to alert pedestrians and motorists of approaching trains.

The railroad crossings were realigned to coincide with new roadway approach alignments and protective devices installed to meet current standards. The interconnection with the railroad crossing equipment permits advance notice of approaching trains to clear the crossings. The newly installed left turn lanes and turning phases at the signalized intersections increase the capacity and safety of motorists and minimizes impeding traffic flow. In addition, a new storm sewer system was constructed, increasing the pipe size of the main to a 42-inch capacity and the upsizing and replacing of other drainage pipes in order to increase their capacity.

BOSWELL

Fort Lee Main Street Streetscape

Borough of Fort Lee, New Jersey (Bergen County)



CLIENT

Borough of Fort Lee
309 Main Street
Fort Lee, NJ 07024

CONTACT

Alfred Restaino
Administrator
201.592.3500

CONSTRUCTION COST

\$9 million

COMPLETION DATE

2022

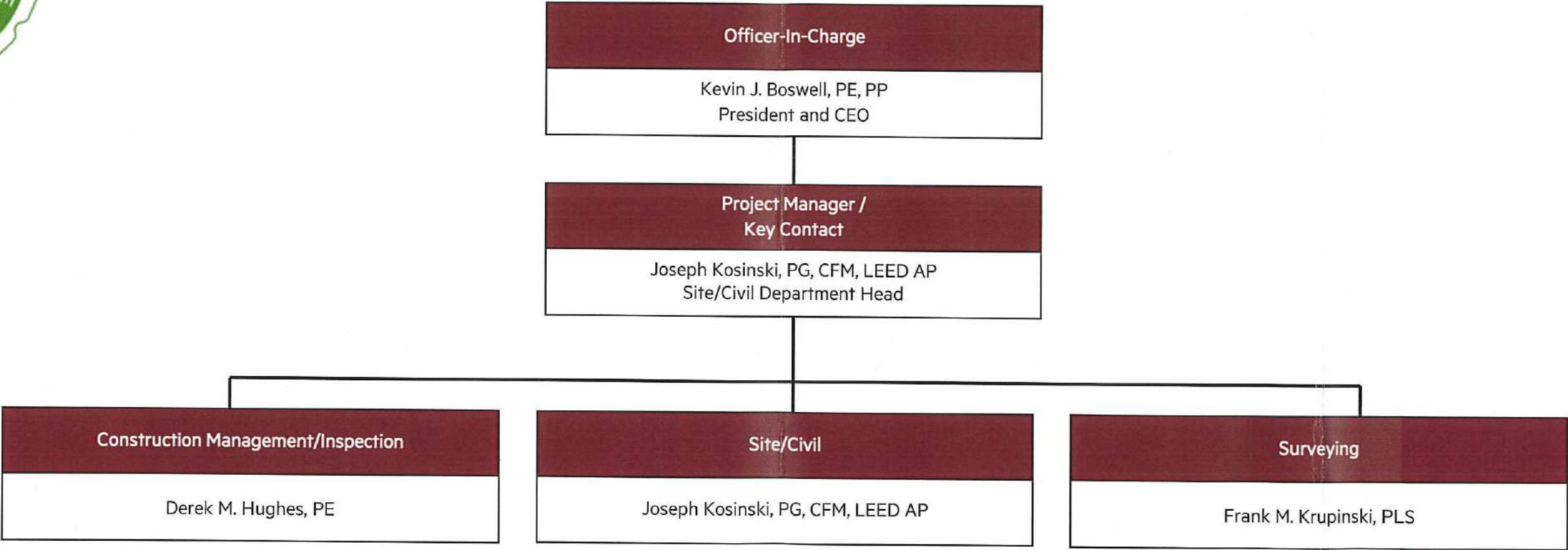
DISCIPLINES INCLUDED

Design
Permitting
Construction Management
Construction Inspection

The Borough of Fort Lee engaged Boswell to provide Design, Permitting, and Construction Management and Inspection services to the Main Street Streetscape project. This project is located in the Borough's central business district, along Main Street from the intersection of Lemoine Avenue to Center Avenue – a distance of approximately 1.25 miles. The scope of the \$9 million project included concrete curbing, patterned concrete / brick pavers sidewalk, installation of decorative street lighting with new conduits and wiring, and installation of decorative street signage and sign posts. Endurablend high friction surface treatments were applied in 19 crosswalk locations. The project also consisted of the reconstruction and improvement of the existing drainage system, installation of a 5,000 LF 10-inch ductile iron pipe sanitary force main, new traffic signals, asphalt milling and paving, and tree planting and landscaping.

SECTION IV

ORGANIZATION CHART



BOSWELL

YEARS OF EXPERIENCE: 44 Years

EDUCATION:

B.S. Civil Engineering, Colorado State University

REGISTRATION:

Professional Engineer - Alabama, Arkansas, Colorado, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New Hampshire, New Jersey, New York, Nevada, North Carolina, North Dakota, Ohio, Pennsylvania, South Carolina, Tennessee, Texas, Vermont, Virginia, Washington D.C., and West Virginia

Professional Planner - New Jersey

Certified Municipal Engineer - New Jersey

EXPERIENCE:

Kevin J. Boswell, with more than 44 years of experience in the civil, municipal and environmental engineering, presently serves as Boswell's President and Chief Executive Officer. As the President and CEO of Boswell Engineering, Kevin directs all phases of the business. As a recognized expert in his field, Mr. Boswell has served as an expert witness for numerous public and private entities in litigation, arbitration and mediation proceedings. Under his leadership, Boswell continues to play a significant role in the future for federal, state, and local governmental agencies as well as private sector clients and utility companies. His civil and environmental expertise includes an extensive working knowledge of site development, roadway design, water and wastewater systems, as well as treatment and pumping facilities. Mr. Boswell has served as the project leader on a wide array of site development projects in the private sector serving residential, commercial and industrial real estate. His projects involve environmental permitting, as well as testimony before numerous Municipal, County, State and Federal agencies.

Mr. Boswell also serves as an engineering consultant to numerous public sector clients. He presently serves as the appointed Municipal Engineer or Special Projects Engineer in more than 40 northern New Jersey communities. He is also the officer in-charge for numerous projects in the Counties of Bergen, Essex, Hudson, Passaic and Sussex. Mr. Boswell's expertise includes all aspects of securing projects with complex funding requirements. These funding sources include the New Jersey Infrastructure Bank (NJIB), New Jersey Office of Green Acres, HUD, NJDOT, FHWA, NJDEP and US EPA. Furthermore, Mr. Boswell also has an extensive background in the design of recreational facilities. This experience includes the design of natural and synthetic turf fields, lighting systems, bleachers, tracks and passive open space utilization.

Mr. Boswell has also been recognized as an expert in the field of Civil Engineering by the New Jersey Superior Court and has served as an arbitrator in construction claims litigation in Bergen County. He has assisted public and private sector clients in litigation defense and resolution. Mr. Boswell serves as a consultant to both water supply and wastewater agencies.

Mr. Boswell currently serves Municipal Water Supply agencies and Municipal/Regional Utility Authorities and Commissioners for the City of Garfield, the Borough of Oakland, Waldwick and Hawthorne, the Township of Mahwah and the East Orange Board of Water Commissioners. He also serves BPU regulated agencies such as Veolia of New Jersey, the North Jersey District Water Supply Commission, Jersey Central Power & Light, and Public Sewer Electric & Gas.

AFFILIATIONS:

Executive Committee Member - American Council of Engineering Companies of New Jersey

YEARS OF EXPERIENCE: 27 Years

EDUCATION:

Stormwater Management Rules & BMP Manual, Cook College, 2005
Onsite Wastewater Disposal Systems, Cook College, 2004
Internet and Business Programming, CHUBB, 2002
Municipal Engineering Construction Inspection, Cook College, 1999
B.A., Geological Sciences, Rutgers University, 1996

REGISTRATION/CERTIFICATION:

Certified Floodplain Manager, 2014 – Present
Licensed Professional Geologist, State of Tennessee, 2005 – Present
Leadership in Energy and Environmental Design Professional (LEED AP), 2008 - Present

EXPERIENCE:

- ***Boswell, Inc., Chester, New Jersey - Department Head Site/Civil.*** Supervises departmental operations including project planning, proposal preparation, resource allocation, and performance management. Responsible for company-wide planning, design, and execution of civil engineering projects. Manages and coordinates multiple engineering projects from conception through completion, ensuring adherence to project specifications, budgets, and timelines. Responsible for strategic leadership, project management, and coordination with various stakeholders to ensure that all projects are completed on time, within budget, and to the highest standards of quality. Provide technical guidance and support to engineering staff to ensure all projects adhere to industry standards, codes, and best practices. Conduct performance evaluations, provide feedback, and develop professional growth plans for team members. (September 2024 – Present)
- ***Boswell Engineering, Chester, New Jersey - Assistant Department Head Site/Civil.*** Assistant Department Head responsibilities include the preparation of budgets, proposals, technical direction, quality assurance review, value engineering, scoping, feasibility studies, drainage, constructability, estimates and specifications. Responsible for the management and direct supervision of all design associated with Boswell's Site/Civil Department in the Chester, NJ office. Responsible for the supervision and performance of various field and subsurface investigations for the design of sanitary wastewater and stormwater runoff management systems; provide expert testimony and reports on behalf of various municipal boards and private sector clients for compliance with municipal ordinance, state, and federal regulations; design and inspection of civil & land development engineering projects for various municipal, residential and commercial site plan, roadway, stormwater management, and onsite disposal system improvements; construction manager for various municipal infrastructure and private site plan projects; manage NFIP CRS certifications, cycle applications, and credit development on behalf of municipal clients; maintains proficiency with land development mapping and design software including AutoCAD, ArcView GIS, subsurface modeling, and stormwater design systems. Provide guidance and support to junior level staff towards their professional development. (January 2024 – September 2024)
- ***Ferriero Engineering, Inc., Chester, New Jersey - Senior Project Manager/Geologist.*** Senior project manager responsible for all aspects of business development and client relations including budgeting, preparing proposals and securing contracts. Responsible for leading and training engineering staff, project designers, specialty outside consultants, and construction inspectors. Actively supervises subsurface suitability investigations for the onsite disposal of sanitary wastewater and stormwater



runoff management systems; provide expert testimony and reports on behalf of various municipal boards and private sector clients for compliance with municipal ordinance, state, and federal regulations; design of civil & land development engineering projects for various municipal, residential and commercial site plan, roadway, stormwater management, and septic system improvements; municipal witness for onsite soil suitability testing and inspector of septic system construction; construction manager for various municipal infrastructure and private site plan projects; development of analytical software for business applications and internet platforms; maintain proficiency with land development mapping and design software including AutoCAD, ArcView GIS, HEC-RAS, subsurface modeling, and stormwater design systems, maintain proficiency with NJDEP Rules and Regulations. Prepared permit applications to NJDEP for Dam Safety permits, NJPDES and TWA permits, Highlands, Wetlands and Flood Hazard Area permits. (March 1999 – December 2023)

- ***ICF Kaiser Engineers Inc., Maryland and New Jersey Regional Offices - Geologist/Project Manager.*** Responsible for field inspection and reporting on various USEPA Superfund projects under federal Assessment and Remediation of Contaminated Soils Contracts (ARCS); development, implementation, and management of subsurface investigations for various U.S. Army Corps of Engineers Total Environmental Remediation Contracts (TERC); private sector work plan development for the characterization of various soil, bedrock, and groundwater conditions; design, installation, operation, and maintenance of soil vapor extraction and pump & treat systems for the remediation of impacted soil and groundwater; preparation of health and safety plans, budgets, proposals and reports issued to private sector clients. (July 1996 – March 1999)

AFFILIATIONS:

Member - Association of Engineering Geologists, 2003 – Present
Member - Association of State Flood Plain Managers, 2014 - Present

YEARS OF EXPERIENCE: 30+ Years

EDUCATION:

B.S., Civil Engineering, Lafayette College

REGISTRATION:

Professional Engineer - New Jersey, New York (Dormant: AL, GA, MD, NC, PA, SC)
American Concrete Institute (ACI) Concrete Level 1
ACI Lab1
NSPE Spray Fire Resistant Material Certification, OSHA 30

EXPERIENCE:

Mr. Hughes is a seasoned professional with over 30 years of experience in the construction industry. Mr. Hughes possesses start-up experience with outstanding presentation and customer service skills. His specialties include design, commissioning, materials testing and special inspections. Mr. Hughes has the ability to multi-task and delegate effectively for multiple clients and project needs with excellent PC skills including Microsoft Word, Excel and Project.

Relevant project experience includes:

- **MTA Rail Car Inspection and Testing Facility – Resident Engineer.** Resident Engineer for the Construction Management Contract and all construction operations on this \$92M, 2-year construction project. Resident Engineer has the overall responsibility to ensure that the MTA's contract is fulfilled by the General Contractor. The Resident Engineer oversees the Construction Manager's Site Safety and Construction Quality Management programs inclusive of day-to-day oversight inspections of all construction operations. Resident Engineer interfaces with General Contractor's personnel regarding scope, schedule and fee and when necessary, negotiates on behalf of the MTA within the contract framework.
- **MTA Grand Central Madison – Smoke Control Special Inspection.** The inspection and acceptance of the Smoke Control System for the first new train station to open in New York City in over a hundred years, required the expertise of a team consisting of Professional Engineers, Commissioning Agents and Certified Air Testing and Balancers. Mr. Hughes led the team that inspected the Smoke Control system, which is perhaps the largest and most complex in the City. It encompasses four new platforms and a shared mezzanine, approximately 150 feet below street level, a grand concourse stretching six city blocks approximately 50 feet below street level and connections to Grand Central Station, One Vanderbilt Building, the Biltmore Hotel, cross-connections to Metro North Railroad and future connections to three other high-rise buildings. Smoke Control Special Inspections entailed review of all detection devices, duct leakage testing of all smoke control ducts, verification of all detection and system shut down alarm sequences, verification of all smoke control operation alarm sequences, verification of all smoke control equipment operated by alarm initiation, air flow measurement of exhaust and fresh air supply and verification that Smoke Control systems are maintained on Emergency Power Systems. The immense size of the spaces and air flow interactions with adjacent spaces required design engineering modifications to air flow programming to accommodate unanticipated as-built air flows. Ultimately air flow measurements witnessed by the Special Inspector were used by the design engineer in his finite element analysis model to determine that tenability in the spaces will be maintained.
- **MTA East Side Access.** The \$11 billion East Side Access project will provide eight new Long Island Railroad train lines from Queens, under the East River to Grand Central Station in Manhattan. JPCL has been awarded several contracts to provide Quality Control testing of the work. Supervised the verification and testing of concrete installations of the rail beds and tunnel and various masonry installations. Provided anchor bolt pull-tests of ceiling mounted electric utilities, HVAC equipment and duct, the sprinkler and standpipe system and tunnel ceiling panels. In addition, inspected the utilities themselves in their installed positions.



- **John F. Kennedy Airport Terminal 8 Improvements.** Inspectors and administrators of the Stormwater Pollution Prevention Plan (SWPPP). Reviewed construction activities and the contractor's continual efforts to maintain the construction site in accordance with the SWPPP.
- **NYC DDC, 114 Precinct.** This fast-track project required the underpinning of the active police station while drainage and sewer improvements were constructed. Excavations required sheeting, shoring and bracing and the foundations required subgrade inspections prior concrete placement and backfill compaction tests. The DDC Owner's representative consulted with JPCL on interpretation of their specification and the code.
- **Coney Island Micro-piles.** This underground utility installation project required the installation of approximately fifty 60-foot-deep micro-piles. Oversight of inspection that verified pile and grout materials, depth of installation and grout strength. Our presence on site permitted immediate feedback to the contractor that their procedures and the installation were code and specification compliant.
- **Astoria Boulevard MTA Station Improvements.** This 12-month project completely shut down the Astoria Boulevard train station while train through-traffic was still maintained. On-site safety requirements included MTA Track safety training. Supervised inspections including underpinning, new pile installations, sheeting shoring and bracing, backfill compaction, foundations, welding, bolting and cast-in-place concrete. Work at this site is on-going.
- **Edenwald YMCA, Bronx NY.** JPCL was provided the geotechnical report and was asked to provide the contractor with construction quality assurance of this subgrade excavation. The excavation spoils were reviewed against the nearest soil boring, and the strata verified upon which the building footing foundation would be constructed. In some instances, over-excavation of unsuitable material and gravel replacement was required to complete the subgrade preparation. Coordination with the contractor enabled construction to progress in conformance with the specifications and without incident.
- **NYC DDC for NYC DEP 26th Ward WWTP.** Ongoing wastewater treatment plant upgrades required the deep foundation support of 72-inch diameter sewer mains and other utilities by means of 35-foot deep micropiles. Micropile technology permits the introduction of grout from the ground surface rather than subsurface injection. Quality control included verification of pile cutoff elevations, pile lengths and grout strength testing. Inspected the micro-pile installation and ensured its adherence to contract documents.
- **NYC MTA – Parkway Intermodal Facility.** Performed geotechnical field inspection of subgrade materials and supervised the use of nuclear density soil compaction tests.
- **Skyline Engineering, Scocius Development Group.** Delivered full service special inspections for a 25-story residential concrete high-rise. Services included scope of excavation, subgrade, rebar and concrete, masonry, mechanical systems, fire suppression, fire-rated construction fire resistant penetrations and joints, emergency lighting and energy code compliance inspections (July 2017 - April 2019).
- **Skyline Engineering, Various Projects.** Reviewed and managed billings of approximately \$6 Million per year covering approximately 900 inspections per month. Regularly reviewed account receivables and pursued delinquencies. Established a list of preferred customers and guided our estimator and business development team away from non-preferred customers. Managed and assisted proposal writing and service pricing. As Technical Manager, re-organized our quality control manual and coordinated our annual re-accreditation duties. Successfully reviewed and selected reporting software for company-wide rollout and implementation thereby streamlining our reporting efforts (July 2017 - April 2019).
- **AKF Group – July 2012 to June 2017.** Developed start-up accredited building inspection specialty service with mechanical electrical and plumbing expertise within a \$60-million-dollar 300 employee MEP Engineering Firm. Proposed and won approximately \$2M in building code inspection work representing approximately 200 individual projects. Projects ranged in size from single room renovations to 50-story 600-room \$500M new high-rise hotel construction. Coordinated with and reported to approximately 25 partner stakeholders as well as their executive committee. Managed staff of four inspectors and coordinated with administrative assistants and accounting staff.

AFFILIATIONS: American Society of Civil Engineers
Toastmasters International

YEARS OF EXPERIENCE: 40 Years

EDUCATION:

New Jersey Institute of Technology

REGISTRATION:

Professional Land Surveyor - New Jersey 1992

EXPERIENCE:

Mr. Krupinski, over the course of his 40-year career, has provided surveying services for both the public and private sector and has been involved in every aspect of the firm's survey projects. He has performed and/or directed control, topographic, hydrographic, structural, cadastral, route, construction and railway surveys for federal, state, county and municipal agencies, as well as transportation authorities, utilizing state-of-the-art Global Navigation Satellite System (GNSS) equipment, including Real-Time Kinematic (RTK), total stations and data collectors. Mr. Krupinski is highly experienced in the discipline of boundary surveying, which includes record research, deed analysis and the establishment of property and right of way lines, as well as the preparation of complete right of way documents for various state departments of transportation. He has performed and/or directed numerous boundary surveys ranging from less than 5,000 square feet to 255 acres. He is also proficient in the use of CADD engineering/surveying software and is directly responsible for the processing of field data and the preparation of mapping. His project experience includes:

- **State of New Jersey, Department of Treasury, Division of Property Management & Construction (DPMC), Boundary Surveys for Land Acquisition, Manville, N.J.** Performed record research, boundary analysis, mapping and preparation of deliverables for the 68 properties being acquired for this Blue Acres project.
- **DPMC, Boundary Surveys for Land Acquisition, Pemberton & Southampton, N.J.** Performed record research, boundary analysis, mapping and preparation of deliverables for the 50 properties being acquired for this Blue Acres project.
- **DPMC, Boundary Surveys for Land Acquisition, Pleasantville, N.J.** Performed record research, boundary analysis, mapping and preparation of deliverables for the 24 properties being acquired for this Blue Acres project.
- **State of New Jersey, Department of Environmental Protection (NJDEP), Bureau of Green Acres, Quarryville Brook Preserve, Wantage, N.J.** Performed record research, boundary analysis, mapping and preparation of deliverables for the acquisition of a 6.5-acre property and partial acquisition of a 16-acre property.
- **NJDEP, Bureau of Green Acres, Bear Creek Preserve, Allamuchy, N.J.** Performed record research, boundary analysis, mapping and preparation of deliverables for the acquisition of a 7.7-acre property.
- **FirstEnergy, Oceanview 230 kV Transmission Line Reinforcement Project.** Performed all stakeout information and supervised all stakeout work of proposed pole locations and limits of transmission line right of way for vegetation clearance/maintenance for this 16-mile-long project throughout Monmouth County; performed record research and boundary analysis; prepared legal descriptions; downloaded, processed and checked all field survey data; reviewed all drafting.
- **Jersey Central Power & Light (FirstEnergy) Martinsville Substation, Warren, N.J.** Performed record research, boundary analysis, mapping and prepared all deliverables for three (3) areas totaling 3.6 acres to be diverted from a Township of Warren Conservation Easement and a 16.5-acre replacement parcel for both Green Acres and State House Commission approval.
- **Port Authority of New York and New Jersey, Newark Liberty International Airport, Utility Management System, Newark, N.J.** Responsible for downloading, processing and drafting underground utility



locations (both as-built and mark-out), as well as other pre-construction and post construction topographic surveys.

- ***Bergen County Department of Planning and Economic Development, Camp Tamarack, Oakland, N.J.*** Performed record research and boundary analysis for this 181-acre tract. Prepared a Perimeter Survey and a later Boundary Survey for Green Acres acquisition.
- ***NJ Department of Human Services/NJ Division of Property Management & Construction, Greystone Park Psychiatric Hospital, Morris County, N.J.*** Prepared boundary surveys and metes & bounds descriptions for three parcels totaling 199 acres to be conveyed to the County of Morris.
- ***New Jersey Department of Transportation (NJDOT), U.S. Route 30 (White Horse Pike) & Evesham Avenue Intersection Improvements, Magnolia, N.J.*** Responsible for planning and processing of the master control survey, which was performed utilizing GNSS. The GNSS system was also used for establishing horizontal and vertical control for the aerial mapping. Responsible for input and adjustment of survey baselines, downloading and processing of field survey data, and supervising right-of-way document preparation.
- ***Valley Court and Gail Place Floodwall, Secaucus, N.J.*** Supervised field survey and drafting, downloaded and processed all survey data, including aerial mapping photo control, performed record research and boundary analysis for this over 37-acre boundary and topographic survey for the Town of Secaucus. This boundary survey required the establishment of boundary lines for 80 properties, calculation of mean high water and researching existing tidelands conveyances.
- ***East Orange Water Commission, Millburn, N.J.*** Performed record research, field survey and boundary analysis for this ancient property which consisted of over 255 acres. A closed survey baseline loop of three and three quarters (3.75) miles was run and wetlands flagging was located throughout this heavily wooded and mainly undeveloped property. Record deeds for the property dated back to the early 1900s and the latest road mapping for a portion of the property dated back to 1916.
- ***Trust For Public Land, Dundee Island Park, Passaic, N.J.*** Supervised field survey and drafting, downloaded and processed all survey data, performed record research, including tidelands conveyances, and boundary analysis for this over 7-acre boundary and topographic survey. This complex boundary survey required reestablishing a railroad centerline from ties referenced in an 1882 deed and the mean high-water line of a branch of the Passaic River no longer in existence.
- ***Passaic Valley Sewerage Commission, Newark Bay Treatment Plant, Newark, N.J.*** Performed record research, boundary analysis for the determination of the boundary for the four (4) tracts, containing 142 acres total, that comprise this complex, as well as CAD drafting.
- ***Bergen County Health Care Center, Rockleigh, N.J.*** Responsible for the determination of the boundary on this over 50-acre tract. Since the deed of record did not close by 50 feet, it was imperative that all available mapping and adjoining property deeds be thoroughly researched. More than 20 maps were assembled from the County Clerk's Office, County Engineer's Office, the Borough of Rockleigh and other surveyors to aide in the resolution and establishment of the boundary.
- ***Hackensack University Medical Center, Pascack Valley Hospital, Westwood, NJ.*** Prepared an ALTA/ACSM Land Title Survey for this 22-acre property. Was responsible for record research, boundary analysis, preparation of metes & bounds and CAD drafting.
- ***ALTA/ACSM Land Title Survey, Piscataway, NJ.*** Performed record research and boundary analysis, and supervised field survey and mapping for the 115-acre Ericsson facility.
- ***Sourland Mountain Natural Area, West Amwell, NJ.*** Performed record research, boundary analysis, mapping and preparation of deliverables for the partial Green Acres acquisition of this 56-acre property.
- ***NJDOT, Route 80, Section 20 Roadway Widening (Metric), Hackensack, South Hackensack & Teterboro, N.J.*** Responsibilities included planned and executed the master control survey, which was performed utilizing GNSS. The GNSS system was also used for establishing horizontal and vertical control for the aerial mapping. Responsible for the downloading and processing of all data.



SECTION V – Lump Sum Fee and Hourly Rates

Boswell's lump sum fee for **Land Surveying, Civil Engineering Services** and **Construction Administration Services** is:
\$39,500.00

We propose the following lump sum fees for the services described:

<u>Service Category</u>	<u>Lump Sum Fee</u>
Land Surveying Services	\$5,950.00
Civil Engineering Services	\$21,000.00
Construction Administration (Separate Proposal)	\$12,550.00

Hourly Rates for additional services beyond the scope are provided below.

BOSWELL **2026 RATE SCHEDULE**

<u>Title</u>	<u>Hourly Rate</u>
Project Manager	\$245.00
Senior Project Engineer	\$240.00
Project Engineer	\$237.00
Senior Design Engineer	\$222.00
Design Engineer	\$209.00
Asst. Design Engineer	\$141.00
CADD Technician	\$180.00
Survey Field Crew (2 Person Team)	\$322.00
Robotic Survey Crew	\$206.00
Survey Analyst	\$235.00
Field Technician	\$86.00
Resident Engineer	\$209.00
Inspector	\$201.00
Inspector II	\$110.00
Licensed Site Remediation Professional (LSRP)	\$245.00
Senior Environmental Scientist	\$240.00
Environmental Scientist	\$102.00
Senior Environmental Specialist	\$237.00
Environmental Specialist	\$150.00
GIS Analyst	\$143.00

Note: All rates are inclusive of secretarial and clerical assistance, and
routine telephone and email communications.



STATE OF NEW JERSEY BUSINESS REGISTRATION CERTIFICATE

Taxpayer Name:	BOSWELL, INC.
Trade Name:	
Address:	330 PHILLIPS AVE SO HACKENSACK, NJ 07606-1722
Certificate Number:	0099760
Effective Date:	July 01, 1966
Date of Issuance:	October 10, 2024

For Office Use Only:
20241010112206176

Certification 1502

**CERTIFICATE OF EMPLOYEE INFORMATION REPORT
RENEWAL**

This is to certify that the contractor listed below has submitted an Employee Information Report pursuant to N.J.A.C. 17:27-1.1 et. seq. and the State Treasurer has approved said report. This approval will remain in effect for the period of **15-JUN-2025** to **15-JUN-2028**

BOSWELL INC.
330 PHILLIPS AVENUE
S. HACKENSACK NJ 07606



Elizabeth Maher Muoio

ELIZABETH MAHER MUOIO
State Treasurer

State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
BOARD OF PROF. ENGINEERS & LAND SURVEYORS

HAS CERTIFIED

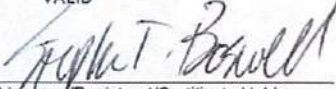
BOSWELL INC.
STEPHEN T BOSWELL
330 Phillips Avenue
South Hackensack NJ 07606

FOR PRACTICE IN NEW JERSEY AS A(N): Certificate of Authorization

Engineering & Land Surveying

07/12/2024 TO 08/31/2026

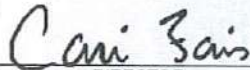
VALID



Signature of Licensee/Registrant/Certificate Holder

24GA27958000

LICENSE/REGISTRATION/CERTIFICATION #



DIRECTOR



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Certifies That

BOSWELL INC
330 PHILLIPS AVE
SOUTH HACKENSACK, NJ 07606

*Having duly met the requirements of the
Underground Storage Tank Certification Program
N.J.S.A. 58:10A-24.1-8*

Is hereby approved to perform the following services:

CLOSURE
INSTALLATION-ENTIRE UST SYSTEM
SUBSURFACE EVALUATION
TANK TESTING



04/30/2028
EXPIRATION DATE

US00041
CERTIFICATION NUMBER

TO BE CONSPICUOUSLY DISPLAYED AT THE FACILITY

*State of New Jersey
Department of Environmental Protection
Certifies That*

BOSWELL, INC.
Laboratory Certification ID # 02051

*having duly met the requirements of the
Regulations Governing the Certification of
Laboratories and Environmental Measurements N.J.A.C. 7:18
et. seq.*

*is hereby approved as a
State Certified Environmental Laboratory
to perform the analyses as indicated on the Annual Certified
Parameter List which must accompany this certificate to be valid*

Expires June 30, 2026



A handwritten signature in blue ink, appearing to read "MJP", written over a horizontal line.

Michele M. Potter
Manager

**NEW JERSEY DEPARTMENT OF TRANSPORTATION
DIVISION OF PROCUREMENT - BUREAU OF PROFESSIONAL SERVICES**

CONSULTANT PREQUALIFICATION STATUS

Company: Boswell Engineering, Inc.			Primary Contact: Christopher J. Nash, P.E.		
Address: 330 Phillips Avenue 			Primary Email: marketing@boswellengineering.com		
City: South Hackensack State: NJ Zip: 07606			Phone: 201-641-0770		
			Secondary Contact: Christopher J. Nash, P.E.		
			Secondary Email: cnash@boswellengineering.com		

PRIMARY DISCIPLINES

B1	B	H1	B	S1	C
B4		H3	A	T1	A
C6	B	I1	A	T7	A
E3		I3			
E4	A	I5			
G2		M9	A		

PROJECT SPECIFIC DISCIPLINES

A1		C4		G1		M1		M12		S2		R2	
A3		C5		G3		M6		P2		T3		T12	
A5		C7		G4		M7		P3		T4		U2	
A6		E2		H2		M8		P4		T5		E5	
A7		E7		I6	A	M10		P6		N1			
C1		E8		L1		M11		R1		T11			

"LEVEL OF SERVICE" CODES

- A - Prequalified for Simple Projects
- B - Prequalified for Simple and Routine Projects
- C - Prequalified for Simple, Routine, and Complex Projects

OTHER STATUS CODES

- N - NOT Prequalified in requested discipline
- R - Requested Discipline Review Not Final

SUMMARY

Prequalified

* Only firms with an "X" coded under Prequalified, with the proper discipline and level of service, can submit Technical Proposal(s).

Cost Basis Approval

* Cost Basis Approval must be coded "X" in order to be Prequalified.

Certificate of Authorization Exempt

EFFECTIVE DATES

BEGINS: EXPIRES:

NOTE: Subconsultants do not need to be Prequalified, however, subconsultants must be Cost Basis Approved.

Prequalification requirements and application are available by referencing the NJDOT WEBSITE.

www.state.nj.us/transportation/business/procurement

BOSWELL, INC.
330 PHILLIPS AVENUE
SOUTH HACKENSACK, 07606

State of New Jersey



**DEPARTMENT OF THE TREASURY
DIVISION OF PROPERTY MANAGEMENT AND
CONSTRUCTION
33 WEST STATE STREET - P.O. BOX 034
TRENTON, NEW JERSEY 08625-0034**



NOTICE OF PRE-QUALIFICATION

In accordance with N.J.S.A. 18A:18A-27 et seq (Department of Education) and N.J.S.A. 52:35-1 (Department of the Treasury) and any rules and regulations issued pursuant hereto, you are hereby notified of your prequalification to do State work for the Department (s) as previously noted.

Rating	Disciplines	Expiration Date
99	P002-ELECTRICAL ENGINEERING	08/15/2027
99	P005-CIVIL ENGINEERING	
\$10,000,000	P007-STRUCTURAL ENGINEERING	
\$15,000,000	P011-ENVIRONMENTAL ENGINEERING	
\$5,000,000	P012-MARINE ENGINEERING	
88	P015-LAND SURVEYING	
88	P017-HYDROGRAPHIC SURVEYING	
\$5,000,000	P024-BARRIER FREE/ADA DESIGN	
88	P025-ESTIMATING/COST ANALYSIS	
\$10,000,000	P030-CPM	
88	P039-CLAIMS ANALYSIS	
88	P047-HYDROLOGY	
\$10,000,000	P049-SITE PLANNING	
88	P052-TRAFFIC	
\$15,000,000	P053-TRANSPORTATION	
\$15,000,000	P054-WASTE/WATER TREATMENT	
99	P057-CONSTRUCTION FIELD INSPECTION	
99	P058-PROJECT MANAGEMENT	
88	P059-ENVIRONMENTAL CONSULTANT	



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

2/4/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Risk Strategies Company 80 West Century Road, Suite 301 Paramus, NJ 07652	CONTACT NAME: Certificate Department PHONE (A/C, No, Ext): 201-837-1100 FAX (A/C, No): E-MAIL: certificates2@risk-strategies.com ADDRESS:														
INSURED Boswell, Inc. 330 Phillips Avenue South Hackensack NJ 07606	<table><tr><th>INSURER(S) AFFORDING COVERAGE</th><th>NAIC #</th></tr><tr><td>INSURER A: The Hanover Insurance Company</td><td>22292</td></tr><tr><td>INSURER B: Great American Insurance Company</td><td>16691</td></tr><tr><td>INSURER C: Manufacturers Alliance Insurance Company</td><td>36897</td></tr><tr><td>INSURER D: Continental Insurance Co of New Jersey</td><td>42625</td></tr><tr><td>INSURER E:</td><td></td></tr><tr><td>INSURER F:</td><td></td></tr></table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: The Hanover Insurance Company	22292	INSURER B: Great American Insurance Company	16691	INSURER C: Manufacturers Alliance Insurance Company	36897	INSURER D: Continental Insurance Co of New Jersey	42625	INSURER E:		INSURER F:	
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INSURER D: Continental Insurance Co of New Jersey	42625														
INSURER E:															
INSURER F:															

COVERAGES

CERTIFICATE NUMBER: 83826038

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☒ POLICY ☒ PRO-JECT ☐ LOC OTHER:		ZHY 7920144 21	12/31/2024	12/31/2025	EACH OCCURRENCE \$2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$100,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$2,000,000 GENERAL AGGREGATE \$3,000,000 PRODUCTS - COM/OP AGG \$3,000,000 \$
A	AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY		AHY-7924529-21	12/31/2024	12/31/2025	COMBINED SINGLE LIMIT (Ea accident) \$2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	☒ UMBRELLA LIAB ☒ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE DED ☒ RETENTION \$10,000		TUU 0249172-15	12/31/2024	12/31/2025	EACH OCCURRENCE \$4,000,000 AGGREGATE \$4,000,000 \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N N/A	202401-04-74-96-5Y	12/31/2024	12/31/2025	☒ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000
D	Professional Liability		MCH591908602	12/31/2024	12/31/2025	\$2,000,000 Per Claim \$2,000,000 Aggregate

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Evidence of Insurance

CERTIFICATE HOLDER**CANCELLATION**

SAMPLE

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

RSC Insurance Brokerage

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ACORD 25 (2016/03)

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BOSWELL

— EST 1924 —

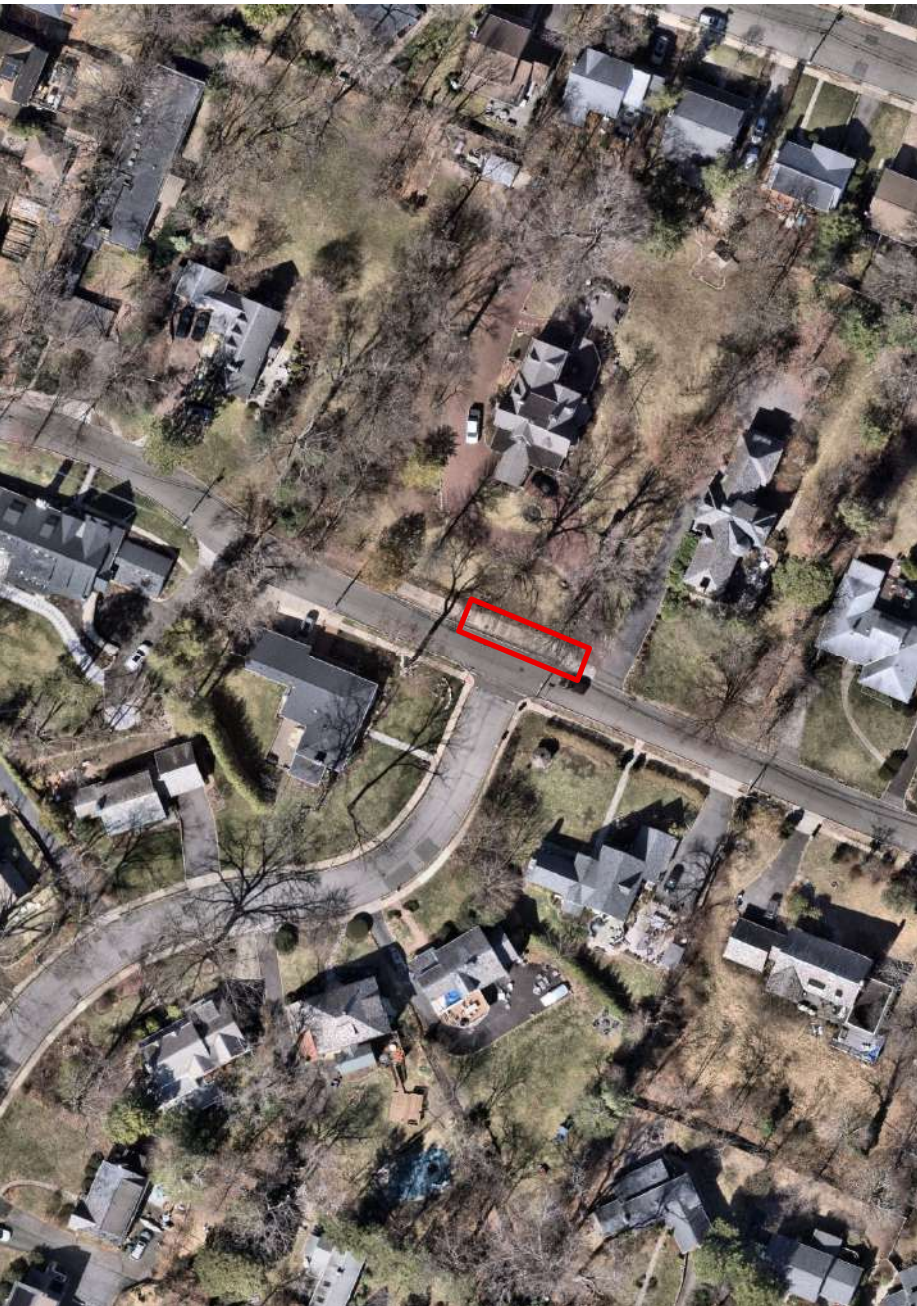
330 PHILLIPS AVENUE
SOUTH HACKENSACK, NEW JERSEY
P. 201-641-0770

Engineered For Life

Proposal for Luddington Road Sidewalk Panel Replacement

December 5, 2025

GPI



Submitted to:



**TOWNSHIP OF WEST ORANGE
DEPARTMENT OF ENGINEERING**

Table of Contents

Cover Letter

SECTION 1	Project Understanding
SECTION 2	Scope of Work
SECTION 3	Similar Project Experience
SECTION 4	Fee Proposal and Hourly Rates
SECTION 5	Project Schedule
SECTION 6	Sample Insurance Certificate

December 5, 2025

Zayibeth Carballo, PE, PLS, PP, CME, CFM, CFS
Director, Municipal Engineer
Township of West Orange
25 Lakeside Avenue
West Orange, NJ 07052

RE: Response to Request for Proposals for Professional Services for
Luddington Road – Sidewalk Panel Replacement
Township of West Orange, Essex County, New Jersey

Dear Ms. Carballo:

Thank you for the opportunity to respond to the Township's Request for Proposal for Professional Services for the above-referenced project. We have visited the site and believe we understand the Township's goals and objectives for this project.

Our December 3, 2024 Qualifications Statement submitted to the Township demonstrates that our experienced staff have the expertise necessary to accomplish the project.

We are pleased to have this opportunity to be of continued service to the Township of West Orange and hope you will find our proposal favorable. We would be happy to provide additional information or assistance as needed. Should you have any questions, my direct line is (973) 434-8306.

Respectfully Submitted,
GREENMAN-PEDERSEN, INC.



Thomas Aslanian, PE
Structural Engineer

TJA/pd
Enclosure

cc: Andrew Cangiano, PE, CME
Patty DiGiorgio

m:\proposal\tja\west orange\2025 luddington road\proposal_luddinton road sidewalk 12-5-2025.docx

Project Understanding

From our review of the RFP and a site visit, it is understood that the project scope includes the engineering design for the replacement of the drainage culvert top slab panels acting as a sidewalk along the north side of Luddington Road, which will include the following:

1. Survey of the project site and preparation of base mapping.
2. Structural design of the replacement culvert top slab.
3. Preparation of contract drawings and specifications.
4. Preparation of detour plans.
5. Up to four (4) meetings with the Township.
6. Preparation of a Bid Package in accordance with public bidding laws.
7. Providing Construction Administration services, including review of submittals and shop drawings, and part-time construction inspection.

The existing drainage culvert and sidewalk panels were originally constructed in the 1930s as part of the Luddington Road Outlet Tunnel, which provides a sewer connection between the First and Second Mountains within West Orange Township. From a review of the construction plans provided by the Township, the drainage culvert within the project area is a ramp portal that provides access to the eastern entrance of the Luddington Road tunnel. As such, the existing concrete sidewalk slabs were constructed as movable slabs that could be removed to access the ramp into the tunnel. Coordination with the Township will be required to determine the need to maintain access to the tunnel ramp.

The ramp portal consists of a cast-in-place concrete culvert varying in height from 6" to 8'-11 ½" with a clear span of 6'-0". The sidewalls have a minimum width of 1'-0" with steel angle top slab seats supporting a 5" thick concrete top slab. The original top slab detail provided on the As-Built plans included two (2) lifting rings on each slab. However, based on our site visit, it appears the original sidewalk slabs have been replaced since the original construction, as no rings or evidence of grouting are currently present. It is anticipated that an in-depth evaluation of the condition of the culvert sidewalls, top slab seats, and bottom slab is not included in the scope of this project; however, standard substructure repair details can be provided as an if and where quantity on the construction drawings.

Per the RFP, GPI will coordinate and attend an on-site Preliminary Design meeting with Township representatives following completion of the survey base mapping to discuss the project scope. This meeting will be followed by the preparation of the preliminary slab design and construction drawings. Construction drawings will include demolition plans, framing plans, concrete slab details, and, if and where directed, substructure repair details. During the Preliminary Design phase, GPI will also coordinate and attend a meeting with the Township's WOPD Traffic Bureau to discuss traffic control and detour plans. A Preliminary Design package will be submitted to the Township, which will include construction drawings, detour plans, specifications, and a preliminary cost estimate for review.

Following the Township review, a Final Design Meeting will be held to discuss the Township's comments and final edits to be incorporated into the final contract documents. GPI will prepare the final contract documents, including final plans, specifications, and the engineer's estimate for submission to the Township for approval.

Upon approval of the Final Contract Documents, GPI will prepare the Bid Package, including construction plans and technical specifications suitable for public bidding. Deliverables for this project consist of twenty (20) copies each of the Bid Package (construction plans, engineer's estimate and specifications). GPI will also provide digital copies (AutoCadd and Adobe formats) of the contract documents.

Following bidding, GPI will also provide Construction Administration Services to assist the Township throughout the construction phase. GPI will review bid results and prepare a bid recommendation summary for Township review, coordinate and attend a pre-construction meeting, and review submittals and shop drawings for conformance with the Contract Documents. During construction, we will provide part-time construction inspection services at major project milestones, including the installation of detour signage, demolition of the culvert top slab, and installation of replacement panels.

Scope of Work

The Request for Proposals (RFP) sets forth the required work to be performed. We have reviewed the RFP, visited the site, and we believe we have a clear understanding of the goals of this project. This proposal is intended to be fully responsive to the RFP. The following tasks include our approach to completing the project.

The Scope of work will consist of the following tasks:

1. Surveying Services

Field surveying and base mapping will be performed to detail all planimetric features and right-of-way information pertinent to the preparation of the construction plans for the sidewalk panel replacement. All survey work will be done in accordance with West Orange and NJDOT standards.

A. *Topographic Survey*

GPI will conduct a survey of existing features, including existing roadway elements, drainage structures, fences, signs, trees, shrubs, walls, driveways, sidewalks, steps, service walks, grade elevations, and utilities, from visible above-ground observation. Station and offset from the centerline to existing drainage structures will be shown on the plan. The type of structure, type of casting, size, and types of pipes entering the structure and inverts on all pipes will be recovered by field survey.

The survey limits will extend a sufficient distance for design purposes. The limits of detailed planimetric and topographic coverage will extend along Luddington Road for 100' east and west of the sidewalk replacement limits and 50' from the roadway centerline on each side. Contours will be shown at 1' intervals. Individual trees and specimen shrubs will be located within the immediate vicinity of the project area.

B. *Establish Roadway Right-of-Way*

Existing roadway right-of-way and property lines will be determined through research of deeds and maps, as well as field surveys of existing evidence. Front property corners will be located along the roadway extending 100' east and 100' west of the sidewalk limits.

C. *Establish Horizontal Control*

We will establish control points as necessary to reference the project baseline. Horizontal control will be tied to the New Jersey Plane Coordinate System (NJSPC) NAD 83. Vertical control will be tied to the North American Vertical Datum (NAVD 1988).

D. *Benchmarks*

Three (3) benchmarks will be established at a minimum on each side of the sidewalk for the Contractor's reference during construction.

E. *Existing Conditions/Survey Control Plan*

We will prepare an Existing Conditions and Survey Control Plan detailing all planimetric features and right-of-way at the project site for Township review. All comments received following the review will be incorporated, and a final, signed, and sealed Existing Conditions and Survey Control Point Plan will be submitted to the Township. Base mapping CADD files will be provided to the Township following completion of the contract documents.

F. *Utilities*

GPI will prepare preliminary utility base mapping and submit utility coordination requests to all utility companies with facilities in West Orange Township. All information shown on the plans for underground utilities will be as provided by the utility

companies. The “Call Before You Dig” service had, in the past, provided utility mark-outs for design. They no longer provide this service, and firms that request mark-outs for design, rather than construction, are subject to a fine. Therefore, the survey of utilities is limited to surface observations and the record information provided by the Township.

2. Civil Engineering Services

A. *Structural Design*

As noted previously, the existing structure consists of a cast-in-place concrete drainage culvert with a non-integral top slab serving as a sidewalk, and the top slab is proposed to be replaced with a precast concrete slab. A detailed structural design will be prepared for the proposed replacement of the culvert top slab. Design of the concrete slab will be performed based upon the following design standards and specifications:

- AASHTO LRFD Bridge Design Specifications, including all amendments.
- A Policy on Geometric Design of Highways and Streets – AASHTO, latest edition.
- NJDOT Design Manual for Bridges and Structures, current edition, including all revisions.
- NJDOT Design Manual - Roadway, latest edition.
- 2019 NJDOT Standard Specifications for Road and Bridge Construction, including all revisions.
- Applicable provisions of the latest ACI (American Concrete Institute) code and/or the CRSI (Concrete Reinforcing Steel Institute) code as they pertain to placing and detailing reinforcement steel.

It is assumed that the concrete slab will be designed for both pedestrian and vehicular loads due to the potential for vehicles to mount the adjacent curb. The use of concrete slab pre- and post-tensioning will also be explored during the design. Structural computations will be completed and submitted with the final contract documents.

B. *Contract Drawings and Specifications*

GPI will prepare preliminary construction drawings for the replacement of the existing concrete top slab sidewalk panels in accordance with West Orange and NJDOT standards. Construction drawings will include the following:

- Cover Sheet
- General Notes and Estimate of Quantities
- Existing Conditions/Survey Control Plan
- Demolition Plans
- Construction Plans
- Traffic Control and Detour Plan
- General Plan, Section and Elevation
- Culvert Framing Plan
- Construction Details (Roadway and Structure)

Traffic Control and Construction Detour

Based on the project location, it is anticipated that most of the work may be performed utilizing a shoulder closure, and a full road closure and local neighborhood detour will only be required during delivery and installation of the precast slabs. GPI will coordinate with the Township's WOPD Traffic Bureau during the Preliminary Design phase to determine the shoulder closure requirements, the preferred detour route, and the necessary traffic control measures, and prepare the Traffic Control and Detour Plans.

All traffic control measures and detour signage will be provided on the Traffic Control and Detour Plan. A preliminary detour plan will be provided for review and approval by the Township and West Orange Police Department. We will incorporate any Township comments in the final construction drawings and include them in the contract documents.

Specifications

Standard Special Provisions, as made available by the Township, will be supplemented. Technical specifications supplementary to the NJDOT 2019 NJDOT Standard Specifications for Road and Bridge Construction will be prepared with appropriate revisions and addenda to suit the project.

Estimate of Quantities and Cost Estimate

Quantities will be developed based on the respective plan sheets. A preliminary Engineer's Estimate of probable construction cost will be prepared and submitted with the Preliminary Design package. Following review, revisions will be made as required, and a final Engineer's Estimate will be submitted with the Final Contract Documents. Unit prices utilized in the Engineer's Estimate will generally reflect the economic conditions at the time of bidding.

C. Meetings

GPI will coordinate up to four (4) meetings with the Township, including a preliminary design meeting at the start of design, a traffic control and detour meeting with the WOPD Traffic Bureau, and a final design meeting following review of the preliminary submittal. All meetings will be documented through meeting minutes and will be distributed to attendees for review and comment. At this time, it is assumed that a public information meeting will not be required for this project.

D. Prepare Bid Package

A final Bid Package will be prepared and provided to the Township for bidding. Twenty (20) signed and sealed copies of the Construction Plans, Specifications, and Engineer's Estimate of Construction Costs, and one (1) signed and sealed copy of the Structural Calculations will be provided.

Electronic copies of the final plans, specifications, and other documents will be made available. The Plans will be provided in PDF and AutoCAD Civil 3D or other versions. The specifications will be provided in both Word and PDF formats. The format and media will be determined by the Township.

3. Construction Administration Services:

GPI will provide the Township with part-time technical support during the bidding and construction process. GPI will provide, at a minimum, the following Construction Administrative services based upon an assumed 8-week construction period:

A. Bidding Services:

- (1) Preparation of the Notice to Bidders for the Township Purchasing Agent for publication.
- (2) Respond to bidders' questions and issue addenda/clarifications as required.
- (3) Attend the bid opening.
- (4) Obtain, tabulate, and evaluate submitted bids.
- (5) Review bids and bidders' qualifications.
- (6) Prepare the award of contract recommendation.

B. Construction Administration Services

- (1) Coordinate and chair a pre-construction meeting with the Township and the selected contractor.
- (2) Review contractor submittals. (Assume a total of four (4) submittals.)
- (3) Provide eight (8) weeks of part-time construction inspection services. It is assumed that inspection will require 12 hours per week plus one full day (8 hours) for installation of the precast slabs, totaling 104 hours.

- (4) Review and process contractors' applications for payment.
- (5) Review and process contractors' change orders, if any.
- (6) Prepare a punch list of the project upon substantial completion.
- (7) Provide final/completion certificate.

Assumptions and Exclusions

1. Existing utilities will be located from above-ground observation and as-built drawings provided by utility companies only. If underground investigations are requested, this proposal will be amended accordingly.
2. It is assumed that subsurface investigations and geotechnical engineering services are not required for this project.
3. It is assumed that an application for Soil Erosion and Sediment Control plan certification is not required for this project.
4. Any existing easements are to be supplied by the Township for incorporation in the right-of-way Survey.
5. Investigations and construction considerations relating to the detection, remediation, or mitigation of regulated materials within the site soils are specifically excluded from the scope of work.
6. NJDEP FHA Determination, Freshwater Wetland Delineation, and/or related permits are not anticipated and not included. Should an application for any NJDEP permits be required, this proposal shall be amended.
7. Construction stakeout services are excluded.
8. It is acknowledged that the RFP requires a lump sum fee for part-time inspection, which has been provided. GPI typically invoices for construction administration (including inspection) on an hourly basis, allowing the client to position themselves for cost savings in cases where the contractor's efficiencies result in a lesser inspection effort than assumed in the proposal.

Similar Project Experience

Greenman-Pedersen's broad-based engineering experience spans a range of multifaceted construction projects and diverse public works. Greenman-Pedersen has completed numerous municipal and county bridge and roadway projects, including scoping, feasibility studies, bridge/culvert replacement and rehabilitation projects, roadway reconstruction and realignment projects. Our expertise in designing and planning projects spans roadway and drainage improvement projects, as well as large-scale bridge rehabilitation and reconstruction.

Similar Project Design Experience

Rehabilitation of the Caldwell Place Culvert, Private Driveway over Tributary to Rahway River, Township of Springfield, Union County, NJ

2018-2020. Construction Cost \$516K

The project included a field inspection, condition evaluation, and rehabilitation of the existing culvert, which consisted of a cast-in-place concrete slab superstructure supported on concrete abutments. The initial phase of work consisted of a field inspection of the culvert to assess its existing condition and evaluate rehabilitation options. Following the inspection, preliminary and final designs were performed for the replacement of the existing superstructure with reinforced concrete voided slab beams and the isolated repair of the substructure concrete. The project also included the preparation of construction staging plans, part-time construction inspections, and extensive coordination with adjacent businesses throughout the construction period.

Client: Springfield Township, Michael Disko, Director of Engineering, 973-912-2219



Railroad Avenue / Main Street Stormwater Improvements Project, Califon Borough, Hunterdon County, NJ

2013-2014. Construction Cost \$147K

Proposed improvements included replacement of the existing antiquated stormwater piping and open channel system, design of a stormwater conveyance relief pipe and precast diversion chambers, and replacement of County Structure J-8 with a precast structure. The project included the final design and preparation of contract documents, as well as extensive coordination with State and Federal Agencies, including the preparation of a Categorical Exclusion Document (CED). The project also included processing requests for reimbursement from State and Federal agencies.

Client: Califon Borough, Charles Daniel, Mayor, cdaniel@califonboro.net



Replacement of County Bridge No. E0203, Orchard Road over Tributary to Bedens Brook, Township of Montgomery, Somerset County, NJ

2016-2018. Construction Cost \$748K

The project consisted of the replacement of a 5' single-span steel multi-stringer and masonry jack arch supported on masonry abutments. The project included the preliminary and final design of the replacement structure, consisting of a prefabricated concrete 4-sided box culvert and cast-in-place concrete wingwalls with stone veneer. The project also included the preparation of NJDEP Permit applications, Soil Conservation District approval, easement acquisition, detour plans, and extensive coordination with utility companies for utility accommodations.

Client: Somerset County, Brian Maurer, P.E., Supervisor of Bridges, 908-231-7024



Fee Proposal and Hourly Rates

FEE PROPOSAL

Survey & Design

Our Lump Sum fee to perform the tasks outlined in the Scope of Work are as follows:

Surveying Services	\$7,920.00
Civil Engineering Services	\$36,020.00
Bidding Services	\$4,040.00
TOTAL SURVEY & DESIGN:.....	<u>\$47,980.00</u>

Construction Administration

Our fee to perform the tasks outlined in the Scope of Work are as follows:

Construction Administration Services	\$11,960.00
TOTAL CONSTRUCTION ADMINISTRATION BUDGET:	\$11,960.00

HOURLY BILLING RATES

As submitted in our Qualification package to the Township of West Orange on December 3, 2024, following are our municipal billing rates:

PROFESSIONAL ENGINEER	\$	190.00
SENIOR PROJECT MANAGER, ENGINEERING	\$	165.00
SENIOR DESIGNER	\$	125.00
DESIGNER	\$	95.00
INSPECTOR	\$	105.00
ENGINEERING TECHNICIAN	\$	85.00
PROFESSIONAL LAND SURVEYOR	\$	170.00
SENIOR PROJECT MANAGER, SURVEYING	\$	150.00
PROJECT SURVEYOR	\$	135.00
SURVEYING TECHNICIAN	\$	105.00
PARTY CHIEF	\$	110.00
INSTRUMENT PERSON	\$	95.00
TECHNICAL TYPIST	\$	75.00

Project Schedule

GPI is committed to adhering to the Township's goal to advertise for bids by Winter/Spring 2026. We anticipate work will proceed within one (1) week after receipt of the Township's resolution awarding the contract. We have the resources to complete the project in a timely fashion, and we are confident that we can achieve the Township's goal.

We have assumed a January 15, 2026, contract award and have prepared the following Project Schedule based on an anticipated project duration of 105 days:

		Project Schedule			
		January 2026	February 2026	March 2026	April 2026
	January 15, 2026 (Assumed Contract Award)				
1	Surveying Services	■			
2	Kick-off Meeting & Preliminary Design		■		
3	Final Design Meeting & Final Plans and Specifications			■	
4	Bid Package				■

Sample Insurance Certificate



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/10/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER PG Genatt Group LLC 3333 NEW HYDE PARK RD SUITE 409 NEW HYDE PARK NY 11042		CONTACT NAME: Alyson Graziosi PHONE (A/C, No, Ext): 516-869-8788 E-MAIL ADDRESS: agraziosi@crpggrp.com FAX (A/C, No): 516-470-0338	
INSURED Greenman-Pedersen, Inc. (Morris Plains) 301 Gibraltar Drive, Suite 2A Morris Plains NJ 07950		INSURER(S) AFFORDING COVERAGE INSURER A: XL Specialty Insurance Company INSURER B: Everest National Insurance Company INSURER C: North Pointe Insurance Company INSURER D: QBE Insurance Corporation INSURER E: Stonington Insurance Company INSURER F: Allied World Assurance Company (U.S.) Inc.	
		NAIC #	
		37885	
		10120	
		27740	
		39217	
		10340	
		19489	

COVERAGES

CERTIFICATE NUMBER: 1993401002

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
D	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PRO-JECT ☒ LOC OTHER:	Y	Y	175000033	12/31/2024	12/31/2025	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000 \$
C	☒ AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ OWNED AUTOS ONLY ☒ HIRED AUTOS ONLY ☐ SCHEDULED AUTOS ☒ NON-OWNED AUTOS ONLY	Y	Y	165000040	12/31/2024	12/31/2025	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	☒ UMBRELLA LIAB ☒ OCCUR ☐ EXCESS LIAB CLAIMS-MADE ☒ DED ☒ RETENTION \$ 10,000	Y	Y	XC5CU00324241	12/31/2024	12/31/2025	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$
E	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y	N/A	155000038	12/31/2024	12/31/2025	☒ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A F	Property Professional Liability			UM00082200MA24A 03141016	12/31/2024 12/31/2024	12/31/2025 12/31/2025	Valuable Papers \$150,000 Each Claim \$2,000,000 Aggregate \$2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

CANCELLATION 30 day notice applies

SAMPLE
FOR INFORMATIONAL
PURPOSES ONLY

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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ACORD 25 (2016/03)

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**HOURS ESTIMATE**

CIVIL / STRUCTURAL ENGINEERING

GREENMAN-PEDERSEN, INC. - ESTIMATE SHEET									
Project Name:	Luddington Road Sidewalk Panel Replacement								
Description:	Replacement of Sidewalk Panels								
Client:	Township of West Orange								
Location:	Luddington Road								
Date:	November 26, 2025								
GPI Job Title	Professional Engineer	Project Manager	Sr. Designer	Designer	Inspector	Engineering Technician	Admin. Support	TASK TOTAL HOURS	TOTAL COST
JOB TASK									
1 - Surveying Services	See Survey Hours Estimate								
2 - Civil Engineering Services									
Structural Design	24	8	16	8				56	\$8,640.00
Contract Drawings and Specifications	8	16	24	80			4	132	\$15,060.00
Meetings	4	16					8	28	\$4,000.00
Prepare Bid Package	8	12	24	16			4	64	\$8,320.00
3 - Construction Administration Services									
Bidding Services	4	12	8				4	28	\$4,040.00
Civil Engineering Services Hours	48	64	72	104	0	0	20	308	\$40,060.00
Construction Administration Services	2	4			104			110	\$11,960.00
Construction Administration Services Hours	2	4	0	0	104	0	0	110	\$11,960.00
Billing Rate	\$ 190.00	\$ 165.00	\$ 125.00	\$ 95.00	\$ 105.00	\$ 85.00	\$ 75.00		

**HOURS ESTIMATE**

SURVEY

GREENMAN-PEDERSEN, INC. - ESTIMATE SHEET									
Project Name:	Luddington Road Sidewalk Panel Replacement								
Description:	Replacement of Sidewalk Panels								
Client:	Township of West Orange								
Location:	Luddington Road								
Date:	November 26, 2025								
GPI Job Title	Professional Surveyor	Sr. Project Manager	Project Surveyor	Surveying Technician	Party Chief	Instrument Person	Admin. Support	TASK TOTAL HOURS	TOTAL COST
<u>JOB TASK</u>									
1 - Surveying Services									
Topographic Survey and Right-of-Way	2	8	12	12	16			50	\$6,180.00
Utility Coordination		4		8			4	16	\$1,740.00
Hours	2	12	12	20	16	0	4	66	
Billing Rate	\$ 170.00	\$ 150.00	\$ 135.00	\$ 105.00	\$ 110.00	\$ 95.00	\$ 75.00		\$7,920.00