



Sterling Environmental Engineering, P.C.

**“Innovative solutions to environmental problems
through client partnering, commitment and
integrated disciplines”**

Providing quality service since 1993

Services

- **Brownfields/Environmental Restoration Fund Grants**
- **Environmental Engineering**
- **Environmental Permitting**
- **Environmental Site Assessments**
- **Environmental Impact Analysis**
- **Regulatory Compliance Programs**
- **Wetland Delineation**
- **Geographic Information Services**

- **Air Quality**
- **Mining and Mineralogy**
- **Hydrogeology & Water Supply**
- **Solid Waste Management & Landfill Engineering**
- **Hazardous Waste Management**
- **Legislative and Public Relations**
- **Grants & Project Financing**
- **Litigation Support**
- **Petroleum Site Remediation**

**24 Wade Road
Latham, New York 12110**

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LANDFILL

Engineering Services

As development expands into ecologically sensitive areas, STERLING's professional staff is equipped to ensure all ecological issues, regulation, and permit requirements are addressed.

STERLING's credibility is enhanced by our demonstrated expertise and the relationship we maintain with the regulatory agencies. STERLING performs pre-application consultation with regulatory agencies to discuss permit requirements and streamline permitting efforts.



Representative Services

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| <ul style="list-style-type: none">• Landfill Siting Investigations• Permit Applications• Hydrogeologic Investigations• Grant Applications• Preparation of Detailed Plans, Specifications and Contract Documentation | <ul style="list-style-type: none">• Waste Characterization Studies• Environmental Impact Analysis• Liner and Cover System Design• Construction Inspection/Resident Engineering• Geotechnical Engineering• Leachate Collection and Treatment |
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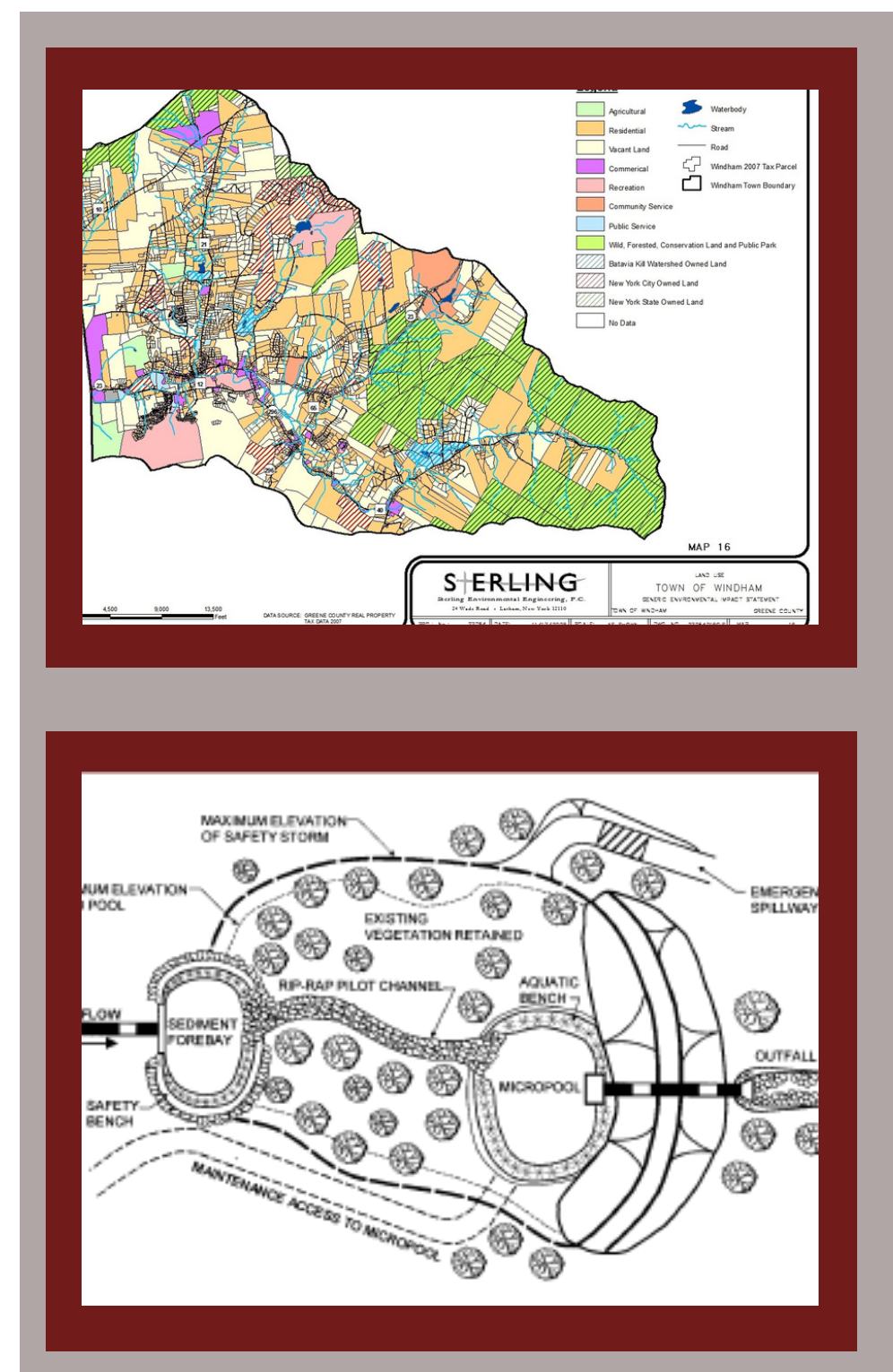
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CIVIL Site Design

STERLING provides a wide range of civil site design services often directly related to environmental projects such as brownfield redevelopment, contaminated site remediation, and solid waste management facility construction and ongoing maintenance.

From conceptual site feasibility assessment to final construction level plans and specifications, STERLING's engineers, geologists, and technicians have the requisite experience and capabilities to manage all phases of development.

STERLING's civil site design services include site plan preparation, grading/earthwork plans, stormwater management, and structural design of asphalt/concrete pavement, slabs on grade, and retaining walls. STERLING often works as part of a team in coordination with structural and mechanical design firms to provide full site design.



Representative Services

- Site Investigation / Development Feasibility
- Site Plan Preparation
- Grading Plans
- Cut / Fill Analysis
- Traffic Circulation
- Asphalt / Concrete Pavement Design

- Retaining Wall Design
- Stormwater Management Design
- HydroCAD Modeling
- Construction Plans and Specifications
- Construction Cost Estimating
- Procurement and Contracting
- Construction Inspection/Resident Engineering

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STORMWATER

Management, Design, and Inspections

STERLING designs stormwater management solutions that minimize potential impacts to wetland and sensitive environments.

STERLING has the experience and the ability to evaluate existing stormwater management issues and recommend standard and accepted proprietary solutions. A watershed-based approach is commonly used to provide an overall understanding of how to manage stormwater and water resources. Potential obstacles and opportunities are addressed at the beginning stages, which reduce unnecessary time and costs associated with site development and management.

STERLING also provides assistance with permitting compliance, such as regulatory agency enforcement cases related to Clean Water Act violations. We are often called upon to serve as experts to support litigation and administrative hearings.



Representative Services

- Stormwater Management Design, Drainage Studies, and Permits
- Stormwater Pollution Prevention Plans (SWPPP)
- Erosion and Sediment Control Plans
- Watershed Modeling and Analysis (including the use of HydroCAD)
- Stormwater Basin, Wetland, and Infiltration Design
- Low-Impact Development Design (Green Infrastructure)
- Hydrologic and Hydraulic Studies (including Open Channel Hydraulics and Stable Channel Design)
- Floodway Delineation

- Stormwater Inspections (by “Qualified Inspectors”)
- Regulatory Compliance
- GIS Data Collection and Mapping
- Engineering Design
- Construction Management
- Litigation Support and Expert Services
- Environmental Monitoring
- Environmental Impact Analysis
- Illicit Discharge Detection & Elimination
- NPDES Compliance
- MS4 Program Compliance
- Multi-Sector General Permit Compliance
- Construction Activity General Permit Compliance
- Streambank Stabilization

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WETLAND

and Ecological Services

Accurate, detailed, and comprehensive wetland delineations form the foundation of responsible and efficient site design and project development. STERLING's professional staff have extensive experience in performing the precise identification, delineation, and classification of wetland resources critical to project success.

STERLING's expertise also includes stream and wetland mitigation and restoration, and the remediation of contaminated wetland areas. STERLING's ability to involve multiple in-house environmental and engineering disciplines provides our clients with additional levels of expertise.



Representative Services

- Wetland Identification, Delineation and Classification
- Stream and Wetland Assessment, Restoration and Mitigation
- Wetland Mitigation Plans
- Environmental Monitoring
- Natural Resource Inventories
- Wildlife Inventories
- Threatened and Endangered Species Assessment
- Environmental Impact Statements (EIS)
- GIS/GPS Data Collection and GIS Mapping
- NEPA and SEQRA Compliance

- Impact Assessments, Alternatives Analysis, and Preliminary Engineering Design
- Impact Avoidance, Minimization and Mitigation
- Feasibility Studies and Identification of Required Permits
- Permitting and Regulatory Agency Coordination
- NYSDEC/USACOE Permits
- Incidental Take Permits
- Public Presentations and Expert Testimony
- Litigation Support and Expert Services
- Grant Applications

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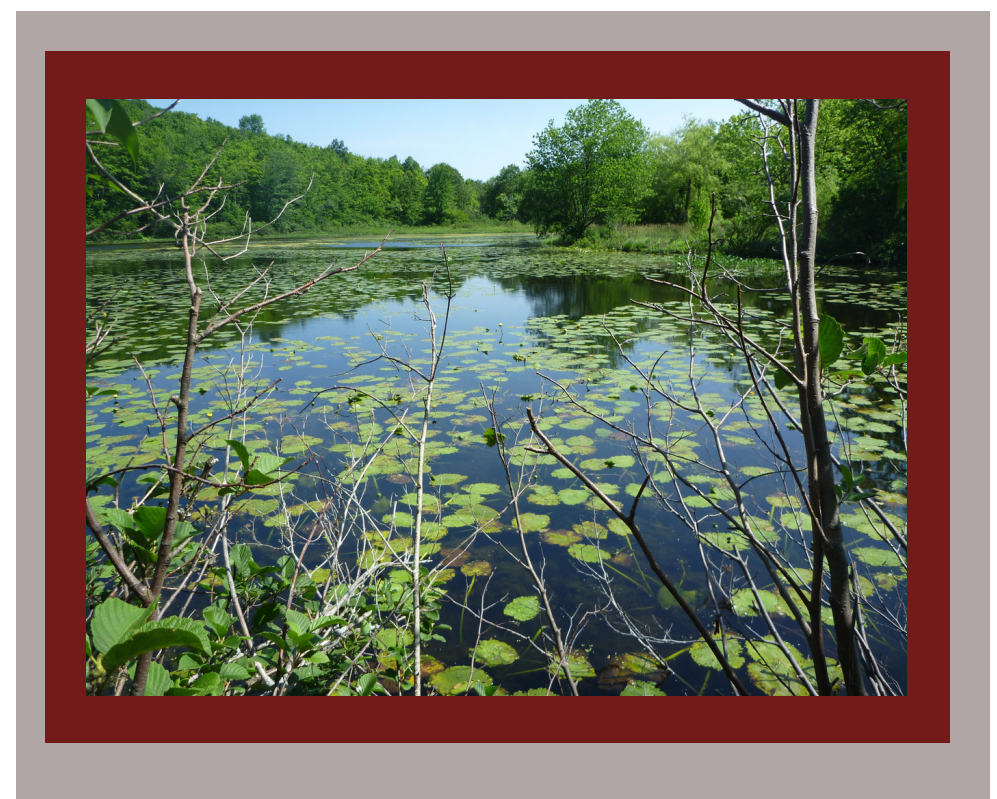
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ENVIRONMENTAL Permitting

STERLING's approach to addressing complex environmental issues and projects is to strategically manage the permitting and/or regulatory approval process. Careful management of the permit review and approval process is key to our success in obtaining permits and approvals for our clients. STERLING's staff prides themselves on being true advocates for clients. We work diligently to represent the client's best interests to regulators, municipalities, investors, and the public.

At the onset of a project, an environmental impact assessment is often required to identify potential impacts and necessary permits.

As a project progresses, identified permits must be obtained through application to the applicable regulatory authority. STERLING often initiates the permitting process with an agency through a pre-application meeting to ensure effort is streamlined to achieve necessary requirements.



Representative Services

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| <ul style="list-style-type: none">•Federal, State, and Local Permitting•Permit Applications•Solid Waste Management Facility Permits•Sanitary Landfill Permitting•Air Permitting and Emissions Modelling•Stormwater Construction General Permit•Stormwater Multi-Sector General Permit•Storm Water Pollution Prevention Plans (SWPPP) | <ul style="list-style-type: none">•SEQRA Compliance•Environmental Impact Analysis•Environmental Impact Statements (EIS)•Petroleum Bulk Storage Registration•Chemical Bulk Storage Registration•Spill Prevention, Control, and Countermeasure Plans (SPCC)•Watercourse Alteration and Dredging Permit•Wetland Disturbance Permit•Site Plans |
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RENEWABLE Energy

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STERLING specializes in land use permitting, environmental permitting and environmental impact analysis. Our services include assisting municipalities that are hosts to wind developments in navigating the approval process and ensuring the host municipalities' environmental interests are protected. Our services routinely include assisting solar development companies in obtaining the State and local approvals to develop both small- and large-scale solar farms.



Representative Services

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|------------------------------|---|
| • Value Engineering | • SEQRA |
| • State Agency Relations | • Permit Applications |
| • Document Review | • Pre-Construction & Periodic Air Monitoring |
| • Construction Certification | • Transformer Pad Construction Monitoring |
| • Site Plan Preparation | • Coordination with Developers, Landscape Architects and Electrical Engineers |
| • Storm Water Plan | |

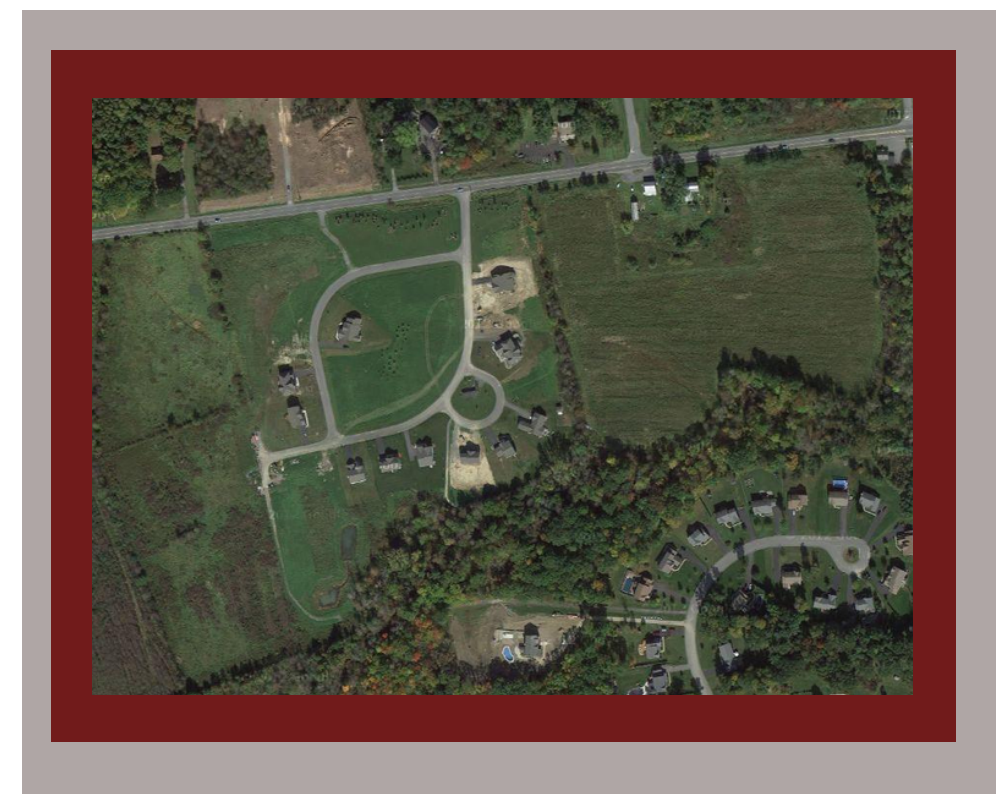
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REAL ESTATE Services

STERLING provides a full range of environmental services to lenders, buyers, and sellers. Accurate, detailed, and clearly written Phase I Environmental Site Assessments form the basis for due diligence in property transfer and development.

In our Phase I Environmental Site Assessments, only STERLING's senior professional staff conduct the site reconnaissance visits to ensure mature eyes assess the available field indicators of environmental management. Our reports are easily understood by virtue of accurate formal writing and the inclusion of digital photographs of key features.

If contamination is found or suspected, STERLING is experienced at Phase II field investigations and Phase III mitigation activities. STERLING's experience with many transactions over the years enables it to skillfully advise clients producing the greatest likelihood of smooth and successful property transactions while all parties are protected from unnecessary environmental liabilities.



Representative Services

- Phase I, II, and III Environmental Site Assessments to All Appropriate Inquiry Standards
- Environmental Transaction Screens
- Petroleum Storage Tank Closure or Compliance
- Lead Paint Sampling
- Pesticide Management
- Wetlands

- Septic System Evaluation
- Stormwater Management During or Post Construction
- Radon Sampling
- Mold Monitoring and Investigations
- Indoor Air Quality and Vapor Intrusion from Contaminated Sites
- Groundwater Quantity and Quality

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RESIDUAL MATERIALS

Management and Beneficial Use

STERLING has extensive experience finding new beneficial uses of materials, including post-consumer end-of-life and waste materials typically destined for disposal, thereby capturing embedded value and reducing the environmental stress associated with continued reliance on virgin natural resources.

This reduces waste while increasing value.

Residual materials that may be used beneficially are often disposed of at a cost to the generator or manufacturer. STERLING can work with an industry to examine its production and materials handling processes for potential ways to divert residual material towards beneficial use. This can result in significant savings over current waste management costs.



STERLING tailors its evaluation through understanding a client's unique needs as it develops potential management options.

Representative Services

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| <ul style="list-style-type: none">•Alternate Grading Material•Beneficial Use Petitions•Comprehensive Solid Waste Planning•Construction Certification•Engineering Design•Environmental Impact Analysis•Environmental Monitoring Programs | <ul style="list-style-type: none">•Federal, State and Local Regulatory Permitting•Material Tracking/Construction Supervision•Recycling Programs•Solid Waste Facility Siting Studies•Waste Characterization Studies |
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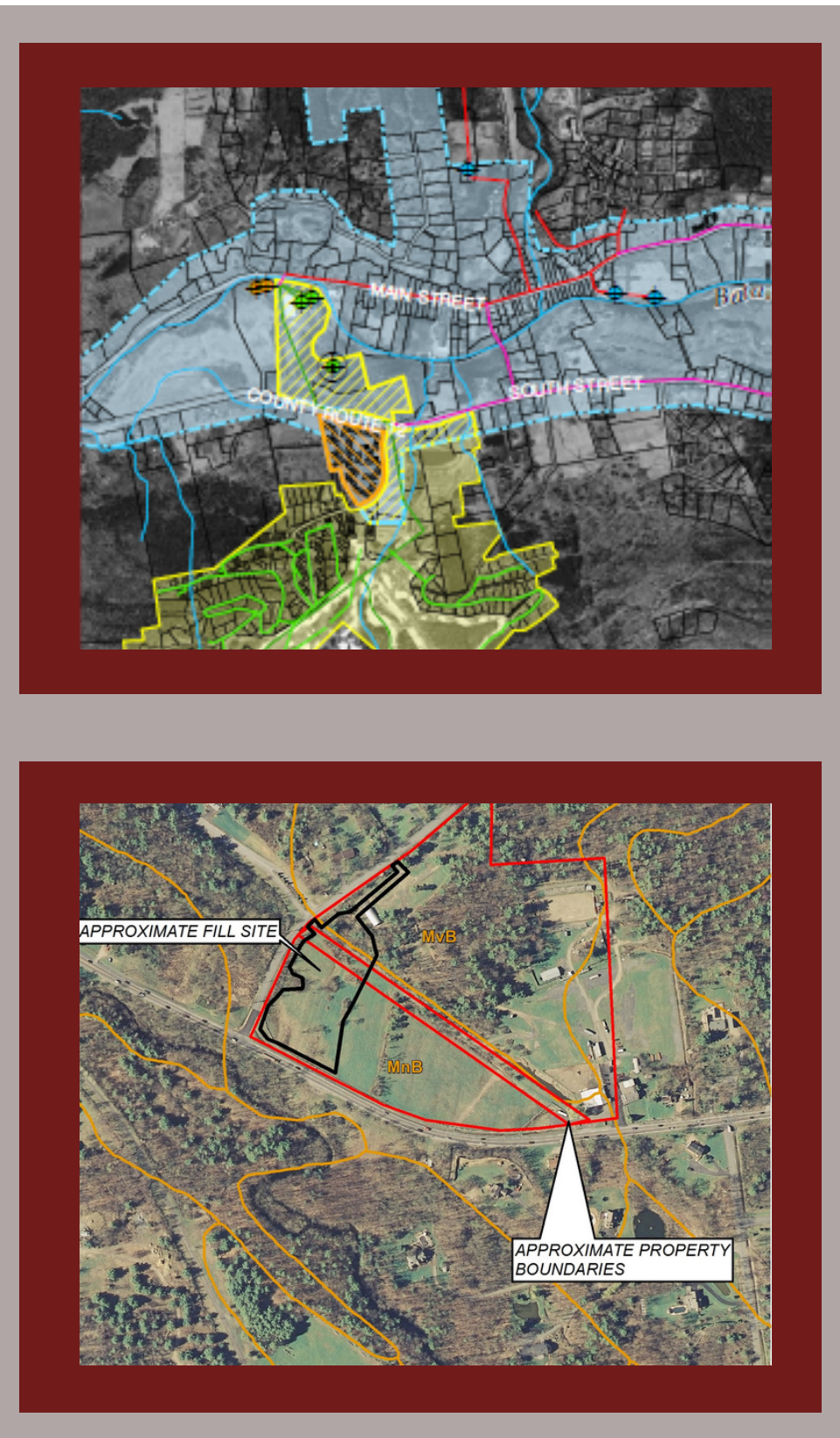
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GEOGRAPHIC INFORMATION SYSTEMS (GIS) Services

GIS allows STERLING to view, analyze, interpret and visualize data in a timely manner, at a lower cost to our clients, and improve economic returns. GIS technology can reveal relationships, patterns and trends beneficial to project related decisions and/or goals.

STERLING is experienced with obtaining data from federal, state and local agencies and utilizing Global Positioning System (GPS) equipment to provide project support. STERLING is able to create new GIS data or update existing data and convert into useful spatial maps. STERLING integrates AutoCAD and GPS data into GIS projects and vice versa.

STERLING provides GIS services to a wide variety of clients, including municipalities, state agencies, private land developers, commercial and industrial businesses, and individual homeowners.



Representative Services

- Needs Assessment
- Environmental Constraint and Build-Out Analyses
- Cartographic Mapping
- Land Use Analysis
- Water, Stormwater & Sewer Infrastructure Mapping
- Watershed & Hydrology Analyses (including the use of HydroCAD)
- Natural Resource Inventories, Analysis & Mapping
- Data Conversion & Geo-Database Design

- Threatened and Endangered Species Assessment
- Land Development Support
- Feasibility Studies and Identification of Required Permits
- NYSDEC/USACOE Permitting Support
- Environmental Impact Statements (EIS)
- Wetland Identification, Delineation, Classification and Mitigation
- GPS Data Collection and Mapping
- Hazardous Material Inventory
- Litigation Support and Expert Services

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