



SHAPING
OUR
COMMUNITIES

together

QUALIFICATIONS



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BSC is built from a foundation of integrity, commitment, and excellence. Our people emanate authenticity and a “make it happen” spirit.



BSC GROUP COMPANIES



1965

BSC
FOUNDED

EMPLOYEE-OWNED

BBJ LIST:
LARGEST ENGINEERING
FIRMS IN MASSACHUSETTS

160

TEAM
MEMBERS

OFFICE LOCATIONS

HEADQUARTERS

BOSTON, MA

ANDOVER, MA

WEST YARMOUTH, MA

WORCESTER, MA

GLASTONBURY, CT

MANCHESTER, NH

BSC GROUP

Shaping our Future

At BSC, we partner with our clients to deliver creative and practical transportation, land development, and environmental solutions. We also help them find climate-resilient solutions. Clients trust BSC to work with them to expertly guide siting, strategically navigate regulatory processes, and holistically design infrastructure to help achieve their vision.

BSC's engineers, planners, and scientists take pride in their ability to respond nimbly to move projects forward. We solve complex challenges by applying expertise across disciplines, sharing ideas and perspectives to see a project from every side.

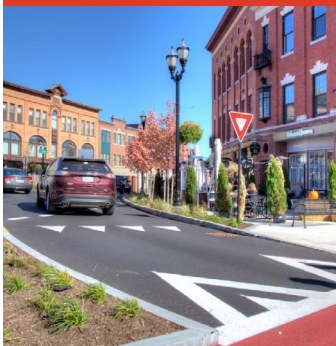
The purpose of our work is to improve the quality of life in and around our communities using our skills and experience to promote balance between the built and natural environment. Proudly employee-owned, our people are the heart of our company.

“IN THE 17 YEARS I’VE BEEN AT THIS IN MY CAREER, I HAVE YET TO FIND A CONSULTING GROUP THAT IS AS FAIR AND BALANCED AS THE GROUP OF FOLKS BSC CURRENTLY HAS ON THIS PROJECT. THEY TRULY EXEMPLIFY THE WORD ‘TEAM.’”

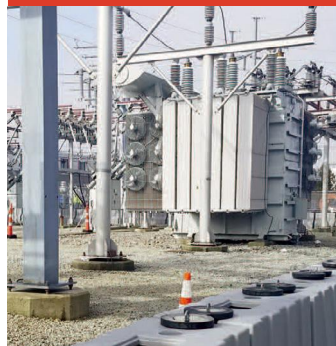
JASON CROSS, SENIOR MANAGER
MICHELS POWER

MARKETS

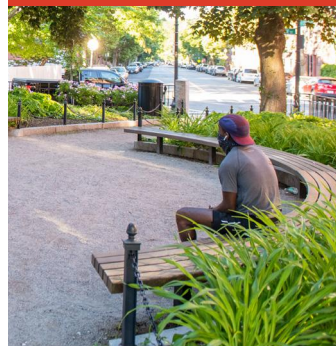
TRANSPORTATION



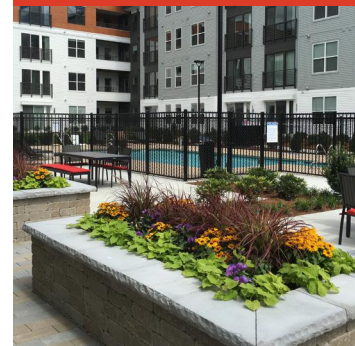
ENERGY



PUBLIC



PRIVATE



MARKET

Transportation

For decades, transportation agencies have shouldered the responsibility to move people safely and efficiently and keep infrastructure in a state of good repair. Now, with accelerating technology, data-driven decision making, and an asset management approach to supply and maintenance, today's transportation agencies have a whole new set of operating efficiency expectations to meet—still with limited budgets.

Clients turn to BSC's planners, engineers, and scientists to help apply the right tools and approaches for a more efficient and functional transportation network. Whether improving pedestrian and vehicle safety within roadways and intersections, improving bus and rail accessibility for passengers with disabilities, conducting vulnerability assessments to prepare for the impacts of climate change, or finding funding through grant programs, we work side by side with our clients to deliver creative and pragmatic solutions to handle the challenges of today and the future.

By looking at projects from multiple angles, BSC helps clients implement transportation solutions that align with their vision.

REPRESENTATIVE CLIENTS

MassDOT
Massport
MBTA
Worcester RTA
CTDOT
RIDOT

Neponset River Esplanade Greenway Trail, Boston, MA

Linking urban neighborhoods with the Boston Harborwalk and public transit stations, the Trail also incorporates dedicated paths with on-street bike lanes along an eight-mile corridor.



APA 13 GREAT PLACES
IN AMERICA 2019



STAFFORD STREET OVER I-90 CHARLTON, MA

Bridge redesign to increase vertical clearance and eliminate vehicle collisions.



MARKET

Energy

Residents in every home on every street count on their energy provider for peace of mind. Businesses and public services throughout the region rely on energy providers for continuity of operations. Without power, resident safety and business and service productivity halts. Energy providers continuously face challenges to maintain their infrastructure and provide reliable service, particularly with more frequent and intense storm events.

Energy clients count on BSC to help move their projects forward by expertly navigating siting, zoning, and permitting processes, as well as guiding them on environmental and natural resource compliance. BSC's scientists, engineers, and surveyors provide efficient, environmentally responsible solutions to infrastructure maintenance, siting, and site access. BSC helps keep infrastructure up and running using proven approaches to storm hardening and resiliency. In addition to gas, electric, and hydropower, BSC also serves the renewable energy market, providing services for solar and fuel cell energy projects.

"BSC hits heavy like the big firms, but always gives us the attention of a small firm."

NATIONAL ENERGY PROVIDER

REPRESENTATIVE CLIENTS

National Grid
Eversource
Next Grid
Bloom Energy
Borrego Solar
Great River Hydro
Kinder Morgan
Sunfield
VELCO

BSC's regulatory coordination during solar planning phases facilitates the complex development, design, and permitting processes.





RUMNEY MARSH RESERVATION REVERE/SAUGUS, MA

Energy providers are constantly evolving, exploring new approaches for cleaner energy, and expanding their geographic reach to satisfy demands.



MARKET

Public

Cities and towns are not only responsible for the safety, health, and wellbeing of their communities; they also seek to fulfill the community's vision. To accomplish this, they must manage priorities and budgets while considering factors like population growth, infrastructure upkeep, and evolving public needs.

BSC partners with cities and towns to revitalize town centers, create vibrant public spaces, and maintain resilient supporting infrastructure. We help clients integrate climate resiliency and ecological restoration into these solutions. We work side by side with our clients to help them realize their vision. By identifying funding mechanisms, improving vehicle and pedestrian safety, and fostering a robust public engagement process, BSC delivers creative, practical solutions that have lasting impact. At the state level, BSC's professionals support public facilities such as public housing and recreation areas.

“They (BSC Group) created a vision for a ‘people friendly’ downtown that will undoubtedly lead to future economic investment.”

ERIC RYDER, HUDSON DIRECTOR OF PUBLIC WORKS

REPRESENTATIVE CLIENTS

Belmont, MA
Boston, MA
Everett, MA
Fitchburg, MA
Hudson, MA
Pittsfield, MA
Quincy, MA
Shrewsbury, MA
Worcester, MA
Farmington, CT
Old Lyme, CT
Stratford, CT

Hancock Plaza, Quincy, MA
Quincy's Urban Revitalization Plan enhances the pedestrian environment and creates new open spaces to attract new commercial development.



HUDSON ROTARY, HUDSON, MA

A model of dynamic community engagement, creative funding, and successful economic development.



MARKET

Private

You're in the business of getting the doors open to new facilities and embracing the varied needs of tenants and occupants. Whether an engaging corporate headquarters, a vibrant mixed-use development, an inspiring academic campus, or a serene, assisted living facility it's the bottom line, with a hassle-free process, that keeps business moving forward.

A partner on your team, BSC's engineers, planners, and environmental specialists work hard to understand your business and what drives your projects, collaborating with you to make sure end users' expectations are met.

From brownfields to greenfields, to historic redevelopments and constrained urban sites, BSC thoroughly navigates siting, environmental, permitting, and regulatory processes to move your project forward, effectively delivering to make sure your site works for you.

BSC strives to understand our clients' businesses so that our solutions best align with their distinct needs.

REPRESENTATIVE CLIENT TYPES

Corporate
Industrial
Life Sciences
Mixed Use
Residential
Retail

Cambridge Discovery Park, Cambridge, MA

R&D Facility redevelopment required Green infrastructure design and creative stormwater strategy.



CAMBRIDGE COGREEN
AWARD FOR SUSTAINABILITY





3RD AVE IN NORTHWEST PARK BURLINGTON, MA

Inviting landscape architecture enhances the retail and dining experience at this north of Boston hot spot.



PLANNING & DESIGN

Envision a vibrant downtown that integrates people, streetscape, greenspace, and design features. Or imagine taking full advantage of a development site by maximizing functionality, meeting environmental and permitting needs, and providing an appealing atmosphere—all while getting up and running quickly.

BSC brings our clients' visions to reality by listening and understanding, using our skills and knowledge to help create a workable solution. Whether developing or revitalizing neighborhoods, commercial districts, or downtown areas, BSC carefully balances planning creativity with pragmatic development issues. Focused site design and landscape architecture contribute to the creation of attractive, functional spaces that are shaped to capitalize on the sense of place. We prepare well-thought-out implementation strategies for both the short and long term; and we are well regarded for our credentials helping clients prepare for climate change.

BSC's approach emphasizes elements most critical to project success, including community engagement, funding options, and environmental impacts and permitting. We also consider the impacts of proposed actions on traffic, the local economy, and municipal services to assure that recommended alternatives positively affect the community.

SERVICES

Climate Adaptation & Resiliency Planning

Concept Plans & Renderings

Feasibility Analysis

Funding Identification & Grant Application Assistance

Impact Assessment

Land Use & Site Planning

Landscape Architecture

Master Planning

Natural Resource Planning

Neighborhood & Corridor Planning

Parks & Recreational Facilities

Public Hearing Support

Public Outreach & Engagement

Regulatory & Zoning Strategy

Revitalization & Reuse Planning

Site Design

Streetscape & Urban Design

Sustainable Planning

Urban Renewal Planning



WATERBURY GREEN, CT

The centerpiece to the downtown area, Waterbury Green's design accommodates activities and events and fulfills residents' preferred aesthetic feel for the city's hub.



BSC CREATED AN INTERACTIVE EXPERIENCE IN BEVERLY TO SHOW THE COMMUNITY WHAT FUTURE COASTAL STORM SURGE CONDITIONS COULD LOOK LIKE.



BEVERLY, MA



CIVIL & SITE ENGINEERING

Constrained, complex—every site is one-of-a-kind. There are intricacies associated with federal, state, and local regulations and requirements. Underground unknowns need to be resolved. Environmental and natural resources must be considered. You have a lot of technical requirements—and a tight budget and timeframe to complete the project.

Whether located in an urban, suburban, or rural environment, BSC guides clients through the land development process, helping solve complex site engineering and utility issues. As your committed team partner, we investigate and evaluate key issues; engineer and develop design plans, specifications, and contract documents; and provide construction phase services. This means your deadlines are met; your process is completed; and your project is moving forward.

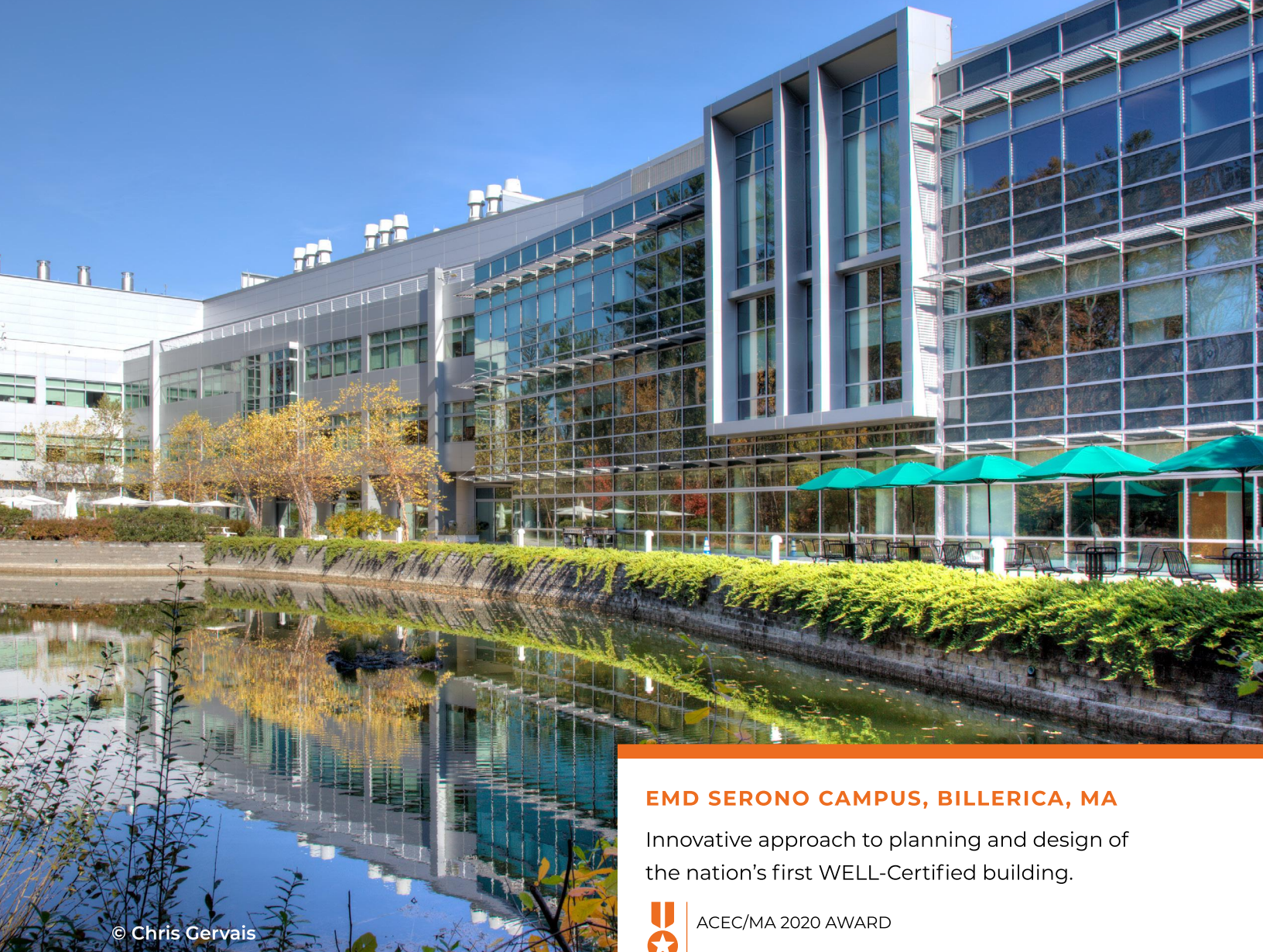
SERVICES

Bidding Assistance	Sediment & Erosion Control
Construction Assistance/Administration	Site Development Engineering & Permitting
Cost Estimating	Stormwater Management Design & Permitting
Feasibility Studies & Site Assessments	Sustainability Design
Grading Design & Earthwork Management	Utility Design
Hydraulic & Hydrologic Engineering	Zoning & Entitlement Analysis & Permitting
Master Planning & Concept Plans	
Roadway & Parking Lot Design & Permitting	

RESIDENCES AT CAMBRIDGE PARK DRIVE

BSC civil engineers worked closely with the developer and architect on design, planning, permitting, and construction of this high-end residential community.





© Chris Gervais

EMD SERONO CAMPUS, BILLERICA, MA

Innovative approach to planning and design of the nation's first WELL-Certified building.



ACEC/MA 2020 AWARD

TODAY'S MULTIDIMENSIONAL
CIVIL & SITE PROJECTS
BENEFIT FROM BSC'S
COLLABORATIVE KNOW-HOW
TO NAVIGATE ENGINEERING,
ENVIRONMENTAL, AND
REGULATORY CHALLENGES.



FRONT STREET DISTRICT, HARTFORD, CT



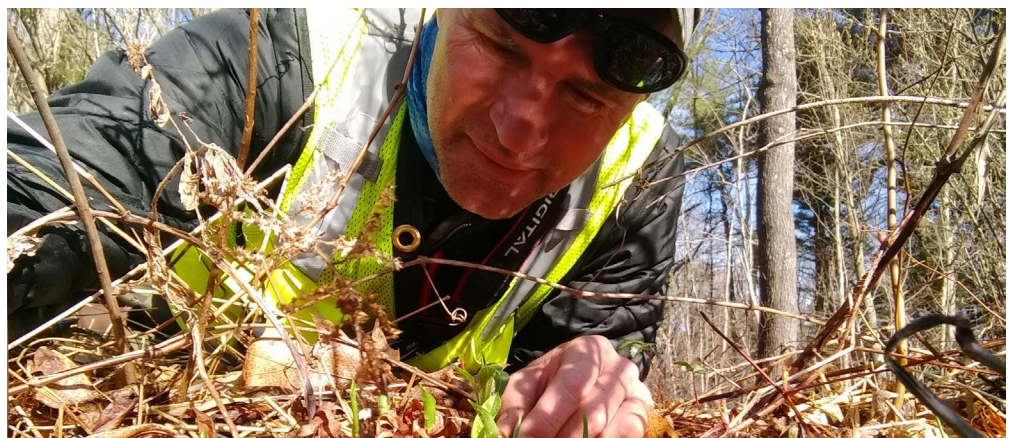
ECOLOGICAL SCIENCES

The natural environment is an influencing factor in every land development, utility, and transportation project. Assessing, managing, protecting, and monitoring wetland and wildlife resources continues throughout the life of a project and property ownership. Likewise, owners are responsible for protecting and preserving lakes, rivers, dunes, coastlines, and floodplains that ultimately add value to a development, enhance quality of life, and connect us to our living environment.

Trust BSC to take care of reconciling the connection between the built and natural environment on your project. Our science-based, pragmatic approach to terrestrial, aquatic, and coastal resources results in accurate impact assessments and alternative analyses, thereby generating well-conceived regulatory strategies for project implementation. We help clients balance project goals with protecting and preserving the environment as we experience it today and as the landscape shifts with a changing climate.

SERVICES

Best Management Practices (BMP)	Marine, Aquatic, & Terrestrial Biology
Botanical Surveys	Mitigation Design
Coastal Beach & Dune Stabilization	Rare & Threatened Species Surveys
Coastal Resource Studies	Soil Science
Dredge Planning & Monitoring	Water Quality & Water Resources Ecology
Drone-Based Field Surveys	Wetland Science
Ecological Restoration	Wildlife Surveys
Floodplain Management	
GIS Mapping & Assessment	





NATIONAL GRID TOWER FOOTER REPAIR, NORTH ADAMS, MA

BSC's vast team of subject matter experts provide answers to our clients' planning, ecological sciences, climate resiliency and adaptation, permitting, and geospatial analysis needs



**YEARLY HABITAT EVALUATIONS
AND INVASIVE SPECIES MONITORING
WINDSOR, CT**

**FROM NATURAL HABITAT
ASSESSMENT AND RESTORATION
OF DEGRADED ENVIRONMENTS,
TO COLLABORATION ON SITE
DESIGN AND LAND PLANNING,
BSC REINFORCES COMPATIBILITY
WITH THE BUILT AND NATURAL
ENVIRONMENT.**



PERMITTING & REGULATORY COMPLIANCE

Permitting and regulatory compliance takes more than assessing regulated factors and completing required checklists and forms to achieve project approvals. Understanding the federal, state, and local processes, and approaching each factor relevant to your project goals and objectives, requires a strategic mindset and deep knowledge of regulatory requirements.

At BSC, we emphasize timeliness, cost-efficiency, and environmental responsibility, using our comprehensive expertise to navigate the process to compliance, project approval, and construction success. We cultivate a strategic and collaborative approach with clients in the siting, permitting, and design of projects. Our team is well-versed in addressing inland and coastal challenges, such as wetlands and rare species, as well as planning and zoning issues relative to the balance of soils on site, stormwater management, site plan review, setbacks, and visual impacts. BSC partners with regulators, utility operators, developers, state agencies, and municipalities to facilitate timely project approvals and achieve a balanced design and responsible, mutually beneficial project outcomes.

SERVICES

Construction Oversight & Compliance Training

Environmental Assessments

Environmental Impact Reviews & Documentation

Erosion & Sediment Control Plans

Feasibility Studies

Licensing Support

Planning & Zoning Coordination & Permitting

Rare Species Permitting & CMPs

Regulatory Strategy

Renewable Energy Permitting

Siting Analysis & Approvals

SPCC Development

Stormwater Permitting





**PERMITTING AT POPPONESSET CREEK
AND SPIT BEACH, MASHPEE, MA**



CROSBY CORNER, CONCORD, MA

IRTH CAMERA TRAP

RECONY

**PROJECTS MOVE FORWARD
SEAMLESSLY WITH BSC BECAUSE
OF OUR LONGSTANDING
RELATIONSHIPS WITH MASSDOT
AND THE REGULATORS IN THE
COMMUNITIES WE SERVE.**



ENVIRONMENTAL ENGINEERING

In a highly regulated environment with ever-changing policies, you need a solid understanding of the costs—in time and money—to evaluate and clean up a site before you move your project forward or even make a property purchase decision. Understanding former uses of the site and evaluating the various environmental media (soil, groundwater, soil vapor, surface water, and sediment) requires seasoned judgment and experience.

BSC's environmental professionals are valued for our expertise in managing environmental issues appropriately to achieve a client's desired use of their site. Whether evaluating the impacts of contaminated soil or groundwater, hazardous building materials, site remediation, or ongoing monitoring, clients trust BSC for our focused site investigations and sound engineering. The relationships BSC's environmental team has built with regulators and develop with project stakeholders continuously contribute to our ability to manage projects to successful closure. We have also had great success assisting our clients with government grant funding applications to further stretch their budgets.

SERVICES

ASTM Phase I & Phase II
Due Diligence Reports

Contaminated Soil Management

Cost Recovery Support

Environmental Design

Environmental Sampling

Landfill Closure & O&M

Litigation Support

LSP Services

Massachusetts Contingency
Plan (MCP) Services

Remediation

UST & AST Inspections & Removals





BEVERLY LANDFILL, BEVERLY, MA

BSC's landfill closure services support the potential for new uses, including solar systems.

OUR EXPERTISE SPANS
A WIDE RANGE OF
CONTAMINANTS INCLUDING
METALS, VOCS AND SVOCs,
PCBS, CHLORINATED
SOLVENTS, PFAS, AND
NON-AQUEOUS PHASE
LIQUIDS (NAPLS).





TRANSPORTATION PLANNING & ENGINEERING

No longer is the vehicle the central focus of transportation systems. Today, it's all about accommodating a variety of user demands and needs. People expect to be able to walk, bike, ride, or drive—whatever their desire—supported by a safe, accessible, reliable transportation network.

To help our clients meet those needs, BSC approaches our work with a complete streets philosophy and we factor the context and character of the area into our solutions. We help our clients provide users with the ability and flexibility to live, work, and recreate in their distinct neighborhood.

Whether integrating bikes and vehicles, designing traffic improvements, or finding funding to cost-effectively update roadways, BSC's transportation planners and engineers use our in-depth knowledge of federal, state, and local design standards and guidelines to safely and optimally satisfy today's transportation demands.

SERVICES

DESIGN ENGINEERING

ADA Accessibility Design
 Bidding & Construction Services
 Complete Street Design
 Culvert Design
 Hydraulic & Hydrologic Studies
 Limited Access Highway Design
 Multi-Use Path Feasibility Study & Design
 Parking Lot Design
 Public Participation Process
 Right-of-Way & Layout Plans
 Roadway & Intersection Design
 Roundabout Design
 Stormwater Management & Design
 Streetscape Design
 Traffic Signal Design

PLANNING & ANALYSIS

Grant Writing & Funding Strategies
 MEPA, NEPA, & Local Permitting
 Parking & Circulation Studies
 Peer Reviews
 Roadway Lighting Design
 Roadway Network & Intersection Analysis & Modeling
 Roadway Safety Studies
 State Highway Access Permits
 Temporary Traffic Management
 Traffic Calming Strategies
 Traffic Demand Modeling
 Traffic Impact Studies
 Traffic Simulation
 Transportation Master Plan



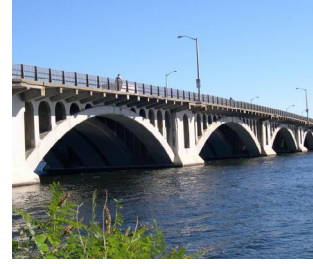
**BSC'S TRANSPORTATION TEAM CREATES
INFRASTRUCTURE SOLUTIONS TO
PROMOTE CONNECTIVITY WITHIN OUR
COMMUNITIES.**

**AS PART OF OUR EFFORTS
TO MEET THE NEEDS OF
COMMUNITIES, BSC IS A
DEDICATED LEADER IN
LEVERAGING TECHNOLOGY
AND PRACTICAL
ENHANCEMENTS TO SUPPORT
ACCESSIBLE FACILITIES.**

BELMONT CENTER, MA



© Chris Gervais



STRUCTURAL ENGINEERING

Bridges and structures demand sound engineering and a sharp focus on safety and function, yet a bridge project must consider more than the structure itself. Complex permitting, ecological and environmental considerations—on top of material selection, accelerated techniques, construction sequencing and maintenance of traffic—all enter the equation when evaluating the right structure.

In addition to experience designing a wide range of bridge types, BSC's structural engineers have in-depth knowledge of the federal, state, and local design standards and guidelines required for highway, rail, public transit, and land development structures. Our engineers are well-versed in accelerated techniques and use of prefabricated materials.

Collaborating closely with transportation engineers, ecological scientists, and environmental permitting specialists, our team looks at projects from all angles to design the structural solution to best fit each individual scenario. We also use our expertise in funding to help clients achieve their solution.

SERVICES

Accelerated Construction Techniques
Bicycle & Pedestrian Bridge Design
Bridge Demolition & Erection Plans
Bridge Inspection & Ratings
Bridge Preservation
Chapter 85 Bridge Design
Culvert Design
Grant Writing

Hydraulic Analysis & Design
Parking Facility Engineering
Resident Engineering & Construction Inspection
Retaining Walls
Roadway Bridge Design
Sign Support Inspections
Stream Crossing Standards



**SHEFFIELD COUNTY ROAD OVER
IRONWORK BROOK, SHEFFIELD, MA**

BSC helped the Town of Sheffield obtain MassWorks and MassDOT small bridge grants to fully fund the bridge replacement.

“WHAT WE APPRECIATED MOST ABOUT BSC GROUP WAS THEIR KNOWLEDGE OF THE MASS WORKS GRANT PROGRAM, THEIR TECHNICAL SKILL LEVEL AND UNDERSTANDING MASSDOT'S BRIDGE DESIGN REQUIREMENTS AND THE MULTIPLE ENVIRONMENTAL PERMITS THAT WERE REQUIRED.”

TARA B. WHITE, CHAIR
TOWN OF NEW MARLBOROUGH, MA

BLACKSTONE PARK TRAIL, MA





LAND SURVEYING & SPATIAL SERVICES

Whether you're a private developer, a public agency, or an energy company, a detailed, accurate survey is critical to moving your project ahead. First in the field, and vital to every project, BSC's surveyors and spatial experts provide advice and expertise to guide the work of engineers, architects, and developers.

Our spatial experts focus on the big picture: trained to identify opportunities to streamline deliverables and manage data captured during field services to enhance overall project design. From complex boundary surveying and construction survey support to 3D laser scanning and sUAS-based technology, we provide a full range of spatial services to apply the right technology to your project needs. We blend it all together to make the data work for you.

SERVICES

3D Laser Scanning

ALTA/NSPS Land Title Surveys

Boundary Surveys

Control Network Surveys

Data Accumulation Surveys &
Baseplan Preparation

Deformation Monitoring

Easement Surveys

Engineering & Construction Surveys

Hydrographic Surveys

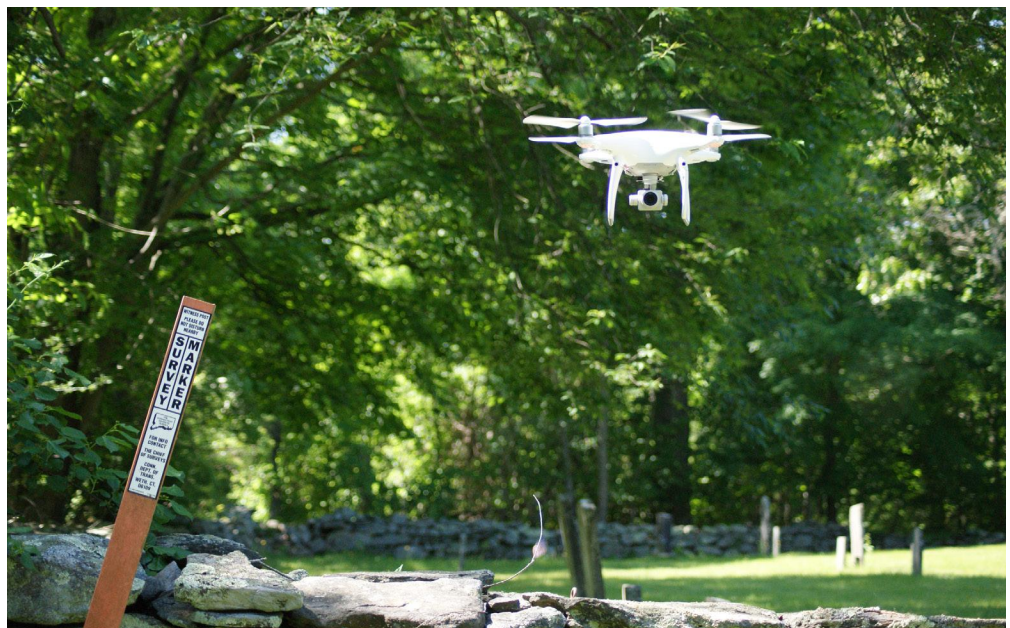
On-Call Services

Revit Modeling

Site Orthophotography

UAV (Drone) Surveys

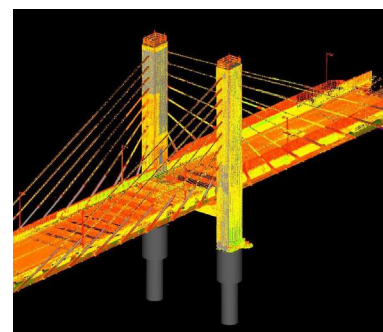
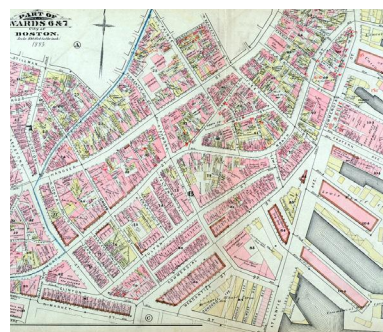
sUAS technology offers BSC surveyors another tool in the box and an opportunity to provide innovative services.





BSC was founded by surveyors - we've been providing land surveying services for over 50 years and have one of the largest surveying staffs in New England to meet any project need.

BSC SURVEYORS ARE WELL-VERSED IN HISTORICAL RESEARCH AND CONVENTIONAL SURVEY TECHNIQUES, COMPLEMENTED BY STATE-OF-THE-ART TECHNOLOGY TO IMPROVE EFFICIENCY AND PROVIDE IMPORTANT DATA FOR DECISION MAKING.





GIS, TECHNOLOGY & CUSTOM SOFTWARE SOLUTIONS

Today's data collection and technology tools make you smarter than ever—analyzing trends, improving decision making, or visualizing what could be. But beyond that initial comprehensive inventory of assets, the challenge is integrating diverse types of data into your workflow to improve processes, compliance, or project delivery. What's more, technical and business obstacles can't be solved with off-the-shelf software products; you may also need high value, custom software solutions.

BSC's software specialists and GIS staff, including our Geonetics* team, help clients automate, integrate, and communicate data using mobile, web, GIS, and cloud-based solutions. We tailor our approach using data suited to the need—whether through government entities or firsthand data collection and manipulation. We offer comprehensive GIS services and deliver innovative custom software applications for facilities, utilities, transportation, and multiple levels of government.

* Geonetics is a BSC Group subsidiary and has developed hundreds of custom mobile and distributed software applications enabling our clients to better manage information and make decisions.

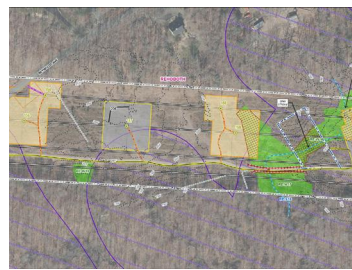
SERVICES

Advanced GIS Integration & Automation	GPS & Mobile Data Collection
Asset Management	Infrastructure Management
Business Process Management Services	Legacy System Integration
Climate Modeling	Mobile & Web GIS Applications
Cloud-Based Solutions	Spatial Data Management
Data Visualization & 3D Modeling	sUAS Based Remote Sensing
Database Design	Systems Planning
Document & Content Management	Workflow Automation
Geospatial & Imagery Analysis	



BEVERLY REGIONAL TRANSMISSION RELIABILITY PROJECT, BEVERLY, MA

Data collected for the flood modeling program and GIS mapping is used to develop conceptual climate adaptations and potential regional solutions for energy substations.



**BSC'S EXPERIENCE AUTOMATING
BUSINESS WORKFLOWS AND
MANAGING COMPLEX DATASETS
WITH GEOSPATIAL EXPERTISE
ENABLES CLIENTS TO BE MORE
EFFICIENT AND CONNECTED
THAN EVER.**



SHAPING
OUR
COMMUNITIES

together

Contact us today.

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