

LAND DEVELOPMENT

Sustainable and Resilient.



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At KC Engineering and Land Surveying, P.C. (KC), our interdisciplinary team ensures responsible solutions tailored to planning challenges and specific clients' needs.

KC's land development group is a leading provider of feasibility studies, constraints mapping, and conceptual development plans for commercial and residential construction.

We provide information on the feasibility of improving a site in conformance with all land use regulations and existing site conditions. After the feasibility review, we can subsequently prepare a constraints map, which is a visually-comprehensive plan depicting the remaining area available for the development proposal. A conceptual development plan then incorporates the results of the feasibility study and constraints map. This plan may include preliminary stormwater detention areas, proposed utility connections, parking and potential building areas, preliminary road layouts, and the feasible number of conforming subdivided lots.

The planning of new construction requires both vision and engineering excellence. Well-designed developments take advantage of natural conditions to accomplish an efficient layout that maximizes development objectives while reducing construction costs. Our diversified staff of engineers and planners are experts at integrating new construction within existing communities. Our understanding of state and local permitting processes expedites costly regulatory submissions and minimizes the public review processes. The design team focuses on creating site plans that are sensitive to the community and environment while achieving land improvements that are functional and aesthetically pleasing.

Services

Access & Entry Design	Office Engineering
Bridge & Highway Design & Construction Supervision (CI)	Regulatory Approvals
Code Compliance	Resident Engineering
Community Liaising	Roadway Design
Construction Administration & Management	Site Planning
Drainage Design	Soil Erosion & Sediment Control Plans
Environmental Permitting & Analyses	Stormwater Management
Expert Testimony	Structures Design
Feasibility Studies	Subdivision & Site Plans
Geographic Information System (GIS) Services	Traffic Impact Analysis
Infrastructure Planning & Design	Vehicle & Pedestrian Traffic Counts
Land Surveying	



Wappingers Highway Garage, Wappingers Falls, NY | KC provided civil engineering and surveying services for the construction of the new highway garage for the Village of Wappingers Falls. The 7,254 SF building was constructed on a vacant site in the Village of Wappingers Falls on Market Street.

Our services consisted of coordinating the necessary subsurface soil investigations, designing and laying out the foundation, providing sanitary sewage facilities for the building, providing water facilities for both domestic and firefighting purposes for the building, and designing the stormwater management plan for the site. KC coordinated with the Building Superintendent of the Village of Wappingers Falls during the construction of the building and site throughout the project.



Orange County Veteran's Cemetery, Goshen, NY

| KC developed a master plan for the Orange County Veterans Memorial Cemetery as well as provided architectural design and engineering for pavilions, lighting, landscaping, and a plot locator. KC analyzed the layout of the site and developed a master plan that included site topography, roadway configuration, access and internal circulation, signage for both vehicles and pedestrians, landscaping and lighting, water, sewer, irrigation, drainage facilities, and an evaluation of the existing structures and facilities.



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Kingston Connectivity, Kingston, NY | KC completed a site analysis, schematic design, design development, and construction documents to fully develop surface street and rail trail improvements for Midtown Kingston.

After gathering site inventory data, KC provided surveying services and base mapping, prepared three schematic designs for multi-modal connections to bring existing regional trail systems to the Midtown Hub, created a walkable connection along the Rondout Waterfront, completed the design of the 1.5-mile Kingston Point Rail Trail, and drafted the final design construction drawings and specifications.



Science of the Soul Conference Center, Goshen, NY | Science of the Soul proposed to construct a 338,600 square foot conference / study center, associated structures, and parking areas. KC was responsible for assisting with preparation of the Orange and Rockland (O&R) Electrical Service Application, which included correspondence with the O&R Engineer to determine the scope of work, modification of the field survey to identify service connection equipment locations and details, preparation of a one-line diagram of exterior equipment and service connection, assisting with submission of the Electrical Load Letter, and submission of electrical equipment cutsheets for approval. KC designed a primary and secondary electrical system to determine which setup would be the preferred option. KC also provided site utility survey, which included identification and location of visible and accessible utilities on the project site. All survey data was produced in New York State Plane (NAD83), Eastern Zone.





Warwick Public Transit Garage, Warwick, NY | KC provided architectural and engineering services to complete the design of the Warwick Public Transit Garage, including the design of the prefabricated steel building, foundation, and slab-on-grade; plumbing systems; roof drainage system; heating, ventilating, and air conditioning (HVAC) systems; and other components. Additionally, KC prepared technical specifications for the project to comply

with all current code provisions. During the design phase, KC was committed to delivering a facility with both exceptional functionality and aesthetic appeal. Accordingly, special consideration was given to the rural character intrinsic to the area in addition to the building's proximity to a main artery to the village and its placement within the Town building complex.



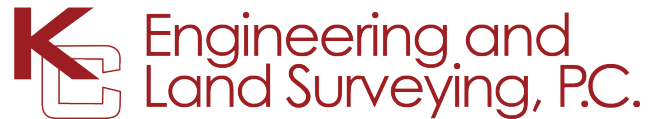
Streetscape and Riverfront Access Design, Plattsburgh, NY | The project scope included sidewalk and street improvements and widening, green space and lighting enhancements, and implementation of traffic calming measures. KC determined current and estimated future walkability conditions; provided design input and analysis for potential conflicts with parking and waterfront recreation; reviewed project specifications and final design drawings; provided drawings in support of relevant permit applications; and conducted ADA, Rehabilitation Act, and Title VI Conformance summaries. KC also provided supplementary survey services to support development of construction drawings for the City as well as bid phase support services for development of technical specifications.

WillsWay Equestrian Center, Goshen, NY | The project consisted of redeveloping an underutilized 130-acre horse farm in the Town of Goshen. KC was retained by the new owner for due diligence and master planning of the proposed farm and equestrian facilities. The existing barn was determined to be salvageable and complete renovation was proposed. It now includes 15 boarding stalls, a tack room, storage rooms, and garage. A new 200' by 85' indoor riding arena was designed to allow for year-round usage of the facilities along with an administration building with climate-controlled tack rooms, offices, a kitchen, and an elevated viewing area.



NYSDOT Salt Barn, Hauppauge, NY | KC provided consulting services to the NYSDOT for construction of a salt shed in Hauppauge, NY. KC worked closely with another firm to develop the architectural plans for the 104 x 70 foot salt storage shed, which is capable of storing up to 3,000 cubic yards of salt. KC performed all of the site development and worked closely with the architect, designed the electrical system, and wrote the specifications for the project.

One of the requirements was completion of the salt shed by the end of November so that it could be used that winter. The project design was started in mid-July, and salt was being stored in the shed by mid-December.



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New York City

7 Penn Plaza, Suite 1204
New York, NY 10001
(212) 947-4945

Hudson Valley

15 Governor Drive, Second Floor
Newburgh, NY 12550
(845) 931-2900

Albany

100 Great Oaks Boulevard, Suite 122
Albany, NY 12203
(518) 209-7489

 kcepc.com

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KC Engineering and Land Surveying, P.C. (KC) is a diversified, multidisciplinary consulting engineering firm. Since 1983, KC has provided our public and private sector clients with a comprehensive range of professional services using only the latest technical equipment. The corporate headquarters of the firm is located in New York City with a branch office in Newburgh, NY. KC has extensive experience with government agencies, municipalities, and private clients; a diverse, professional staff; and an impeccable record of services rendered.

