



URBAN PARK & LANDSCAPING PROJECT EXPERIENCE

Elsie Turner Field, Trapelo Road, Waltham, MA – Marshall-Gary Site Planning and Environmental Design/City of Waltham

The project required the preparation of an existing conditions base plan for proposed site improvements. The survey was referenced to NAD83 and NGVD88 and included location of all site features and visible evidence of utilities. An existing conditions survey was prepared showing all site detail, compiled utilities (including inverts on gravity structures), spot grades, and one-foot contours. ALPHA was later requested to layout proposed park lighting for the Town to review and approve.

MacArthur Elementary School Play Area Improvements, 540 Lincoln Street, Waltham, MA – Marshall-Gary Site Planning and Environmental Design/City of Waltham

The client was contracted by the City of Waltham to design improvements in the use of a portion of the school property that was under-utilized. ALPHA performed an existing conditions and utility investigation of a portion of the playground and ball field. The survey was referenced to NAD83 and NGVD88 and included location of all site features and visible evidence of utilities. An existing conditions survey was prepared showing all site detail, compiled utilities (including inverts on gravity structures), spot grades, and one-foot contours.

Graverson Playground Site Improvements, Trapelo Road, Waltham, MA – Marshall-Gary Site Planning and Environmental Design/City of Waltham

The client was designing park improvements utilizing a survey prepared by others and required additional existing conditions information and utility verification. Utilizing existing survey control ALPHA provided the additional information required by the client and provided the information in digital format.

Frazier State Pier & Pilgrim Memorial Park, Plymouth, MA – Bourne Consulting Engineers/MA DCR

An Existing conditions survey was performed the Pilgrim Memorial Park and +/- 2500 LF of shoreline meandering along. The survey included the Frazier State Pier and Pilgrim Memorial Park from Water Street to the rip-rap shoreline. The project was referenced to NAD83 and NAVD88, with elevations converted to MLW datum. Detail location included Water Street and the utilities therein, all improvements within the park, the State Pier and associated buildings. The client was provided with an AutoCAD Civil 3D 2016 and elevation model.

Foss Park/Latta Brothers Memorial Pool (DCR), Broadway, Somerville, MA – AECOM/DCR

An Existing Conditions survey was performed of the main pool and wading pool in support of a pool rehabilitation project and design of a spray park. Survey control was referenced to NAD83 and NAVD88. In addition to collecting standard topographic features and existing improvements with elevations, particular attention was paid to collecting elevations on concrete deck panels surrounding the pool, pool floor drains, and a top-side perimeter drain. An existing wading pool is slated for demolition, and a new spray park is to be designed in another area adjacent to the main pool. An AutoCAD Civil 3D 2016 file and elevation model was delivered to the client containing the Existing Conditions survey with compiled utilities, spot grades and one-foot contours.

Cedarwood Playground Improvements, 25 Interval Road, Waltham, MA Park – Design Services Contract for Multiple Parks – Carolyn Cooney & Associates/City of Waltham Planning Department

The project consisted of a complete boundary and existing conditions survey of the existing playground and abutting street. Research was performed with the City and the Middlesex Registry of Deeds for record deeds and plans, as well as utility research. The site is surrounded by Brandeis University requiring coordination with their facilities maintenance staff for access to the site. GPS was utilized to establish the survey in the Massachusetts State Plane (NAD83) coordinate system, as well as vertically in NAVD88 as required by the City of Waltham Engineering Department. A boundary and existing conditions survey was performed of the project area and included the location of all site features, utility compilation with rim and inverts on gravity structures and the location of wetland resource delineation by others. The final deliverable consisted of an AutoCAD file prepared in ALPHA's layering and symbology standards portraying the boundary lines, existing site conditions, utility compilation, and one-foot contours.

Drake Playground Improvements, 17 Hazel Street, Waltham, MA – Design Services Contract for Multiple Parks – Carolyn Cooney & Associates/City of Waltham Planning Department

The project consisted of a complete boundary and existing conditions survey of the existing playground abutted by three streets and privately owned property. Research was performed with the City and the Middlesex Registry of Deeds for record deeds and plans, as well as utility research. GPS was utilized to establish the survey in the Massachusetts State Plane (NAD83) coordinate system, as well as vertically in NAVD88 as required by the City of Waltham Engineering Department. A boundary and existing conditions survey was performed of the project area and included the location of all site features, utility compilation with rim and inverts on gravity structures and the location of wetland resource delineation by others. The final deliverable consisted of an AutoCAD file prepared in ALPHA's layering and symbology standards portraying the boundary lines, existing site conditions, utility compilation, and one-foot contours.

Peter Gilmore Playground Improvements, 46 High Street, Waltham, MA – Design Services Contract for Multiple Parks – Carolyn Cooney & Associates/City of Waltham Planning Department

The project consisted of a complete boundary and existing conditions survey of the existing playground abutted by four streets. Research was performed with the City and the Middlesex Registry of Deeds for record deeds and plans, as well as utility research. The site is comprised of an existing building utilized the City Recreation Department, a playground, and paved basketball courts. GPS was utilized to establish the survey in the Massachusetts State Plane (NAD83) coordinate system and vertically in NAVD88 as required by the City of Waltham Engineering Department. A boundary and existing conditions survey was performed of the project area and included the location of all site features, utility compilation in all abutting streets and on-site with rim and inverts on gravity structures. The final deliverable consisted of an AutoCAD file prepared in ALPHA's layering and symbology standards portraying the boundary lines, existing site conditions, utility compilation, and one-foot contours.

Pond End Tot Lot Improvements, 93 Winter Street, Waltham, MA – Design Services Contract for Multiple Parks – Carolyn Cooney & Associates/City of Waltham Planning Department

The project consisted of a complete boundary and limited existing conditions survey of a playground abutted by two public streets, a private way, and private residential property. Research was performed with the City and the Middlesex Registry of Deeds for record deeds and plans, as well as utility research. GPS was utilized to establish the survey in the Massachusetts State Plane (NAD83) coordinate system and vertically in NAVD88 as required by the City of Waltham Engineering Department. A boundary and existing conditions survey was performed of the project area and included the location of all site features, utility compilation in the abutting streets and on-site with rim and inverts on gravity structures. The final deliverable consisted of an AutoCAD file prepared in ALPHA's layering and symbology standards portraying the boundary lines, existing site conditions, utility compilation, and one-foot contours.

Prospect Hill Park Improvements, Totten Pond Road, Waltham, MA - Design Services Contract for Multiple Parks – Carolyn Cooney & Associates/City of Waltham Planning Department

The site was a former ski facility where the City has an on-going improvements plan to encourage day-use of this resource. The focus of this project was for siting handicap accessible public restroom facilities. Survey control was established in the Massachusetts State Plane (NAD83) coordinate system and vertically in NAVD88 as required by the City of Waltham Engineering Department. A limited existing conditions survey was performed adjacent to the former 'ski lodge facility' for the client's use in designing the comfort station and parking facilities. Detail location included the former lodge building, utilities, and other existing site features. The final deliverable consisted of an AutoCAD file prepared in ALPHA's layering and symbology standards portraying the boundary lines, existing site conditions, utility compilation, and one-foot contours.

Fitch Spray Park, City of Waltham – 14 Ash Street, Waltham, MA – Carolyn Cooney & Associates/City of Waltham Planning Department

The project consisted of the conversion of a portion of City School Department property containing an under-utilized wading pool into a spray park. The project was under the direction of the City's Planning Department and being funded through a Community Development Block Grant (CDBG) by the US Department of Housing and Urban Development. Initially the project started with a boundary and existing conditions survey of the existing wading pool area which was physically defined by a fenced-in area on a portion of a school property. As part of the park development, the City wished to subdivide the school property to create a parcel to be conveyed to the Parks and Recreation Department. Research was performed with the City of Waltham Assessor and Engineering Departments, and with the Middlesex County Registry of Deeds for property ownership, street ROW, and deeds and plans of record. A boundary survey was performed of the complete school property, and a subdivision plan was prepared according to the Registry of Deeds standards to create the new Fitch Spray Park. A metes and bounds description was also prepared of the proposed park for the City's use in creating the conveyancing deed. The existing conditions survey consisted of a topographic survey and utility compilation of the park area and abutting streets. The final deliverable consisted of a CAD file prepared in ALPHA's layering and symbology standards portraying the existing site conditions, property lines, and one-foot contours. Upon completion of the construction of the Park, ALPHA installed stone monuments at the lot corners per the Engineering Department's requirements, and performed an as-built survey. The final deliverable consisted of an AutoCAD file prepared in ALPHA's layering and symbology standards portraying the as-built conditions, property lines, and one-foot contours.

Prospect Terrace Playground Improvements, Prospect Hill Road, Waltham, MA – Design Services Contract for Multiple Parks – Carolyn Cooney & Associates/City of Waltham Planning Department

Utilizing CDBG funding, the project was for the upgrade of an existing playground within the Prospect Terrace Housing Development. The proposed improvements included a new surface on the basketball court, walkway/path and land restoration, updated fence and basketball court accessories, installation of new planting areas, and removal of existing overgrowth. The site consisted of an existing fenced basketball court, walks, utility lines, with significant rock outcrops and retaining walls resulting in a twenty-foot change in elevation across the site. Research was performed with the City Housing and Engineering Departments for utility plans of the development. The only existing site information were the original design drawings dating to 1949. GPS was utilized to establish survey control in the Massachusetts State Plane (NAD83) coordinate system, and vertically in NAVD88 as required by the City of Waltham Engineering Department. The existing conditions survey included location of the adjacent housing units, walks, utilities with inverts of the gravity structures, fences, basketball court, significant trees, rock outcrops, retaining walls, and other relevant features. The final deliverable consisted of an AutoCAD file prepared in ALPHA's layering and symbology standards portraying the existing site conditions with one-foot contours.

McKenna Playground Improvements, 10 Whitcomb Street, Waltham, MA – Design Services Contract for Multiple Park – Carolyn Cooney & Associates/City of Waltham Planning Department

Utilizing CDBG funding, the project consisted of the extension of recent renovations to the existing 3.2 acre playground to include rehabilitation of an existing parking lot, installation of signage and guardrail, land restoration of a portion of the site, and other improvements/additions to the previously constructed playground components and ball field. McKenna Playground is bordered by the Massachusetts Department of Conservation and Recreation's (DCR) Charles River Reservation, and Elm, Benefit, and Whitcomb Streets. Whitcomb Street is a dead end street which is partially public and private in ownership and posed concerns to the City for ensuring the proposed improvements did not infringe upon the abutting landowners use of the private portion of the street ROW. Research was performed with the Assessor and Engineering Departments for property, street ROW, and utility information for Whitcomb Street, where most of the proposed improvements were to be designed. ALPHA also contacted the Massachusetts DCR to request plans of the Reservation boundaries and the existing sewer main within the Reservation. Based on the existing survey control from the prior project, ALPHA performed a boundary and existing conditions survey of Whitcomb Street and of a portion of the newly renovated playground where the new design components would need to be merged with the existing site conditions. The boundary survey defined the Whitcomb Street ROW, Charles River Reservation, and McKenna Playground boundaries. The existing conditions survey included a full-width survey of Whitcomb Street including utility locations with rim and invert elevations on gravity structures, sidewalks, the playground parking lot which was an extension of Whitcomb Street, and playground features such as fencing, batting cage, and other relevant items bordering the project area. The final deliverable consisted of a CAD file prepared in ALPHA's layering and symbology standards portraying the existing site conditions, property and Whitcomb Street ROW lines, and one-foot contours.

Seaport Boulevard Entrance (Seaport World Trade Center) and Commonwealth Hall Lobby Renovations, 200 Seaport Boulevard, Boston, MA – D. Schumacher Landscaping

ALPHA was requested to provide construction layout support for sidewalk entrance improvements where the design grades were contingent upon matching existing sidewalk and curb elevations bordering the project area. ALPHA established existing sidewalk, curblines, and other relevant elevations to assist the client with meeting the required sidewalk slopes while matching the new entrance apron and sidewalk to the existing streetscape.

Oak Bluffs Brick Bathhouse, Sea View Avenue, Oak Bluffs, MA - Barbato Construction Co.

ALPHA was contracted by the client to perform a complete site as-built of the new public bathhouse facility constructed adjacent to the Martha's Vineyard Ferry Dock in Oak Bluffs. The survey included the location with elevations, of the bathhouse, retaining walls, sidewalks and steps, landscaped areas, utilities, and other site improvements. The final deliverable consisted of an as-built plan of the site with spot grades and one-foot contours.

Metropolitan Sate Hospital Site (Former), Waltham, MA – Carolyn Cooney & Associates/City of Waltham Planning Department

Beginning in the 1990s, ALPHA performed numerous topographic and utility surveys of this formerly 338 acre for the City of Waltham Engineering Department. Subsequently working for numerous private sector clients, ALPHA performed a topographic and utility compilation of the entire site, based on aerial photography and base mapping prepared by others. In 2002, as a subconsultant to an engineering firm under contract to DCAM, ALPHA performed a complete boundary survey and prepared a subdivision plan for simultaneous approval by the Towns of Lexington and Belmont, and the City of Waltham. The subdivision became the basis for the subsequent sale of a portion of the site for residential development and the creation of Metropolitan Parkway North and South. This particular project consisted of updating the prior existing conditions and utility survey of an approximate two-acre area encompassing the last remaining former State Hospital building, and the terminations of the two completed sections of the Parkway, which had been linked by an unimproved section of pavement lying within a utility easement. The survey is to support site improvements including the eventual renovation of the former Hospital building, and more importantly for the redesign of the connection between the two Parkways to discourage their use as a cut-through, and for the creation of a parking lot for future recreational use of the property. Particular attention was paid to identify utilities lines and service tunnels from the prior Hospital facility. The final deliverable included an AutoCAD file prepared in ALPHA's laying and symbology standards depicting boundary and easement lines, the building, existing site improvements, and physical evidence of utilities of the original site. Also included were the cul-de-sac termini of the two Parkways, with complete utility compilation and rim and invert elevations on gravity structures.

Water Wizz Water Park Expansion Project – 3031 & 3033 Cranberry Highway, Wareham, MA – Water Wizz of Cape Cod/WhiteWater West Industries, Ltd.

Based on a prior boundary and limited existing conditions survey of this 6.7 acre site, ALPHA expanded the topographic survey to include an existing water slide at the focal point of the site. The proposed expansion was to be adjacent to the slide, and therefore the survey included the adjacent park attractions and associated support facilities, as well as the main office building, abutting parking lots, and highway access. ALPHA performed extensive research with the utility companies servicing the site to identify service connections and major water, gas, electrical, and communication lines servicing the numerous site facilities. The client's designer was provided with an AutoCAD file prepared in ALPHA's CAD layering and symbology standards.