THE CITY OF NEW YORK

DEPARTMENT

OF

PARKS AND RECREATION

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PHASE IA ARCHAEOLOGICAL/HISTORICAL SENSITIVITY EVALUATION OF THE PROPOSED ROSE, POND AND LIONS GARDENS AND PHASE IB ARCHAEOLOGICAL SURVEY OF THE ROSE AND LIONS GARDENS STATEN ISLAND BOTANICAL GARDENS RICHMOND COUNTY, NEW YORK

Prepared For:
City of New York
Department of Parks and
Recreation Olmstead Center
Flushing Meadows-Corona Park
Flushing, New York 11368

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March and August 1989

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TABLE OF CONTENTS

LIST OF FIGURES

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STATEN ISLAND BOTANICAL GARDENS

The purpose of this Phase I Sensitivity Study is to document potential prehistoric and historic sensitivity of the proposed new gardens at the Staten Island Botanical Gardens, Sailor's Snug Harbor, through the review of existing archival, cartographic and published references and then to make recommendations regarding possible subsurface testing. In order to provide a context for evaluating any identified resources within the parcel itself, this survey shall include a synthesis of published and unpublished prehistoric and historic resources in the immediate area surrounding the project area.

The Staten Island Botanical Gardens project area is located within the former Sailor's Snug Harbor on the north coast of Staten Island near Livingston, Richmond County, New York. The project area consists of three parcels. These parcels are designated the Rose Garden, the Pond Garden and the Lions Garden. See Figure 1 for the location of the Botanical Gardens and Figure 12 for the project parcels.

The Staten Island Botanical Gardens are located entirely within the boundaries of the Snug Harbor Cultural Center. A background research study of the history and archaeology of the Cultural Center was completed under the auspices of the N.Y.C. Landmarks Preservation Commission (Baugher etal 1985a). This study developed an archaeological predictive model for the cultural center which was presented in map form (ibid.:Figure 4.1). This map shows all of the archaeologically significant zones within the cultural center boundaries. These zones include all or part of the Rose Garden and Lions Garden parcels. See the Conclusions section below for a discussion of the archaeological potential of all three project area parcels.

This study is organized in the following manner: first, a section describing the geography and physical setting; second, a section on the prehistoric sensitivity of the area; third, a review of the historic sensitivity of the area; and fourth, the conclusions and recommendations.

GEOGRAPHY AND PHYSICAL SETTING

The project area is located in the Atlantic Coastal Lowland Physiographic Province of New York State. There is only one other location in the state (Long Island) where this province occurs (Van Diver 1985:34). Geographically, Staten Island is part of New Jersey from which it is separated by the Kill Van Kull and the Staten Island Sound (Skinner 1909). The Staten Island Sound is also known as Arthur Kill.

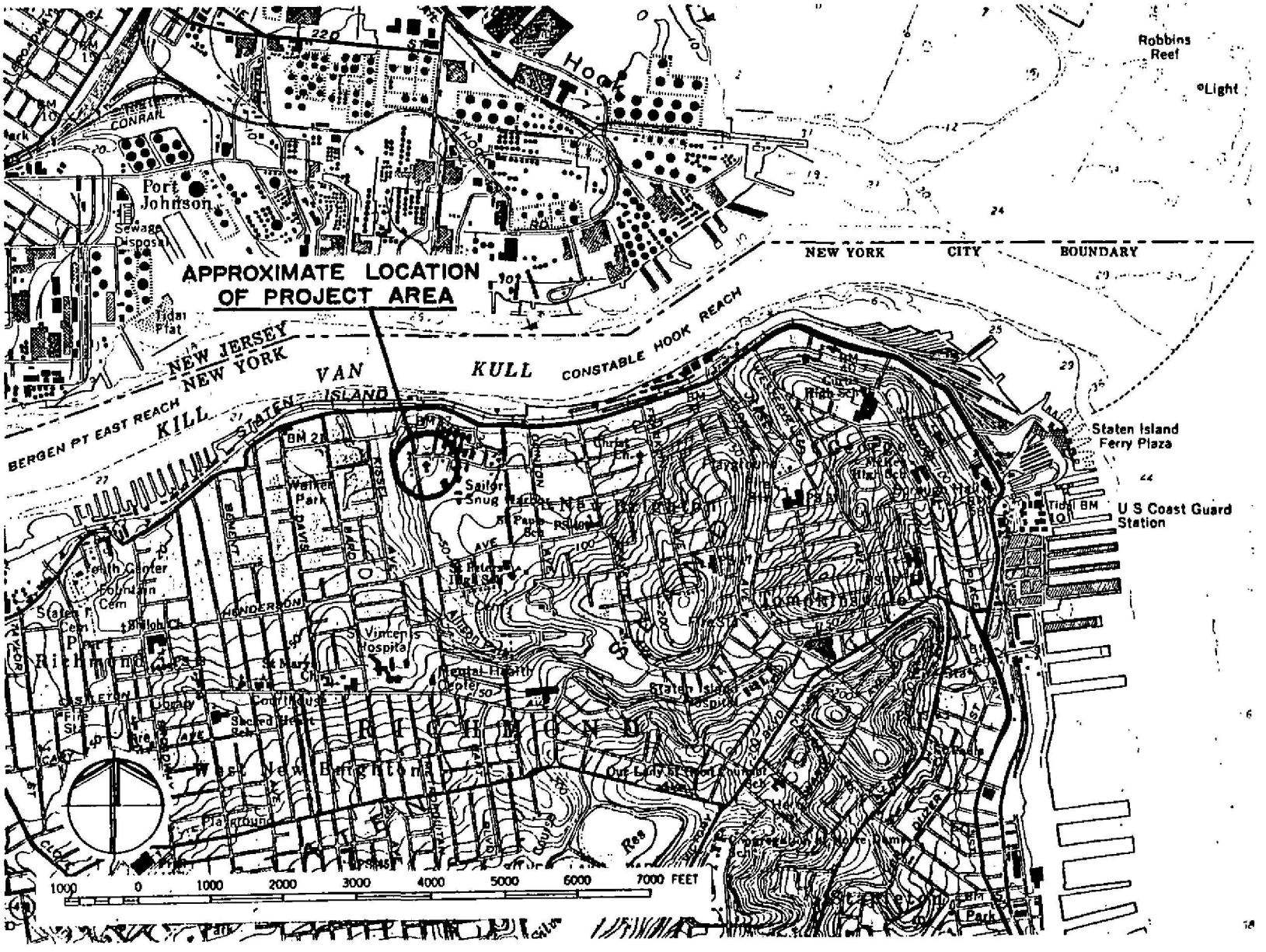


Figure 1 Location of the Project Area shown on U.S.G.S. 7.5 minute series, Arthur Kill N.Y./N.J.

The surficial geology of Staten Island consists of landforms and deposits of glacial origin. The sediments were deposited by the Wisconsin Ice Sheet 55,000-10,000 years ago and generally consist of ground moraine, terminal moraine and outwash sediments (Jacobson 1980:5). The shoreline area in this portion of Staten Island is comprised of sandy embankments of beach sand adjacent to and at times overlying the area's geologically earlier glacial deposits of Cretaceous formations of sand and clay (Weingartner 1967:41). Local glacial deposits may be overlaid by fill as well as beach, marsh, dune, swamp, and estuarine deposits (Jacobson 1980:5).

On portions of three days during July and November 1988, the Principal Investigator visited the project area in Staten Island. During these visits, which totaled no more than six hours, a pedestrian survey was utilized to inspect all three parcels of the project project area. Nearly all of the three parcels are covered with lawns and occasional trees or shrubs. There are no standing structures on the project area parcels, with the exception of the pond itself.

PREHISTORIC SENSITIVITY

As part of the project evaluation process, this sensitivity study has surveyed published and unpublished resources in the Archives and Library of the Staten Island Institute of Arts and Sciences (hereinafter SIIAS), the library of the New York City Landmarks Preservation Commission, the files of the New York State Museum Division of Historical and Anthropological Services, the Research Branch of the New York Public Library, and the New York State Office of Parks, Recreation and Historic Preservation (NYSOHP). Most prehistoric archaeological work undertaken by both professional and avocational archaeologists has historically been concentrated on the southwestern portion of Staten Island (Baugher 1985 pers. comm.). This northeastern portion may suffer from the problems of inadequate archaeological survey coverage particularly evident in the interior of the island.

Table 1 presents the results of our search for prehistoric sites in the vicinity of the Staten Island Botanical Gardens project area. Included in the table are eight sites located two miles or less from the project area. The locations of these sites are presented on Figure 2 with letter code identifiers which correspond to those in Table 1.

Of the eight known occurrences of prehistoric occupation within two miles of the project area, none were excavated recently under controlled conditions. These sites represent either surface finds, very limited excavations by early twentieth century professional archaeologists, less well documented excavated finds by local amateur archaeologists, or the usually completely undocumented finds of pothunters. These sites were

TABLE 1: PREHISTORIC SITES IN THE VICINITY OF THE STATEN ISLAND BOTANICAL GARDENS

	Site Name	NYSM#	Parker#	Skinner#	SIIAS#	Reference	Period	Description
A	Upper or Pelton's Cove	4591	ACP-RICH-1	1	STD-WNB	Parker 1922:676 Skinner 1909:4	Woodland	Village with burials, now destroyed, pottery reported by SIIAS
B	Pelton's Cove	734	---	---	---	---	---	Village with burials
C	Harbor Hills/Golf Links	4612	ACP-RICH-22	18	---	Parker 1922:684 Skinner 1909:16	---	Camp site with scattered relics
D	Harbor Hill	4614	ACP-RICH-24	20	---	Skinner 1909:16	---	Camp site
E	---	4618	ACP-RICH-28	--	---	Parker 1922:	Woodland	Trace of occupation, many triangular points
F	Ascension Church	4592	ACP-RICH-2	2	STD-WNB	Parker 1922:676 Skinner 1909:5	Woodland	Village with burials
G	Silver Lake (3 loci)	4613	ACP-RICH-23	19	STD-SL	Parker 1922:684 Skinner 1909:16	Woodland	Camp sites, one with pottery
H	Stuyvesant Place	4629	ACP-RICH	--	STD-ST	Parker 1922:Pl.211	---	Camp site, traces of occupation

Figure 2 Known Prehistoric sites within a 2 mile radius of the Project Area shown on U.S.G.S. 7.5 minute series, Arthur Kill N.Y./N.J.; The Narrows, N.Y./N.J.; Elizabeth, N.J./N.Y. and Jersey City, N.J./N.Y., Quadrangles..

not excavated by Greenhouse Consultants, or other contemporary professional archaeologists.

The two nearest sites, designated "A" and "B" in Table 1 and Figure 2, exist between 0.1 and 0.5 miles west of the project area. One is called Upper or Pelton's Cove and the other merely Pelton's Cove. Both are described as villages with burials. The former is noted in a list of sites with collections housed at the Staten Island Institute of Arts and Sciences as including pottery, so a date range including the Woodland period can be assigned. This site is noted by Parker as having been destroyed prior to 1922 (Parker 1922:676). The latter site is described only as a village with burials. It is possible that this site refers to the Upper or Pelton's Cove site with a slightly misplaced location, or that it represents another nearby village site. If the description of the latter site is accurate, it probably dates to the Woodland period, based on its description as a village. The Woodland Period in the region dates to circa 1000 B.C. through 1600 A.D. It is preceded by the Transitional Period which dates to circa 1200-1000 B.C., the Archaic Period circa 8000-1200 B.C., and the Paleo-Indian Period prior to circa 8000 B.C. (Funk 1976:Figure 27).

The Harbor Hill Golf Links site (designated "C" in Table 1 and Figure 2), is located approximately 0.6 miles southeast of the project area. This location is presently occupied by Intermediate School #61. This site is described by Alanson Skinner as a camp site and scattered relics. No date range can be assigned as no diagnostic artifacts are described.

The fourth nearest site to the project area, designated "D" in Table 1 and Figure 2, is the Harbor Hill site, located approximately 0.8 miles to the southeast. This site is described only as a camp site, and no period of occupation is suggested, by the early twentieth century archaeologist, Alanson Skinner. This location remains undeveloped.

An unnamed, Woodland period site (designated "E" in Table 1 and Figure 2), exists approximately 1.3 miles southeast of the project area within a developed portion of Ward Hill. This site is described by Parker as traces of occupation with many triangular projectile points, which indicates a date range in the Woodland Period.

The sixth nearest known prehistoric site to the Staten Island Botanical Gardens project area is the Ascension Church site, designated "F" in Table 1 and Figure 2. This site was initially located and described by Alanson Skinner who described it as a village which had produced some burials prior to his investigations (Skinner 1909:5). Based on Skinner's description of the site as a village, as well as the finding of a fragment of aboriginal pottery there, a date range including the Woodland period is suggested. The Ascension Church site is located approximately 1.3 miles west of the project area. Ascension Church itself was

moved from this location in 1948 to the corner of Brookside and Kingsley Avenues.

The Silver Lake site, designated "G" in Table 1 and Figure 2 is located approximately 1.0 to 1.4 miles south of the project area. Skinner and Parker describe at least three separate loci around the lake and Skinner describes recovering pottery at one of these. This indicates a date range in the Woodland period, although other periods may also be represented here.

The eighth nearest prehistoric site to the Staten Island Botanical Gardens project area, designated "H" in Table 1 and Figure 2, is the Stuyvesant Place site reported by the former New York State Archaeologist, Arthur C. Parker. This site, described only as a camp site with traces of occupation, is located approximately 1.4 miles east of the project area.

Alanson Skinner, one of the first professional archaeologists to work extensively on Staten Island, characterized the locations chosen by prehistoric populations on the island as follows. "Throughout Staten Island, with very few exceptions, aboriginal sites are confined entirely to the sandy spots" (Skinner 1912:90).

In terms of potential prehistoric sensitivity, the project impact area was evaluated from two points of view:

1) the proximity of known prehistoric sites in or near the project area (see Table 1 and Figure 2); and

2) the presence of fresh water drainage courses in general, and particularly the identification of river or stream confluence situations where two or more drainages come together, providing access to both water and food supplies of both systems (see Figures 1, 3, 4, 8, 9 and 11 for depictions of the stream course).

This survey has documented the recorded or published locations of no less than eight (8) sites within a two mile radius of the Staten Island Botanical Gardens project area. Two archaeological investigations were carried out recently within the confines of the present Snug Harbor Cultural Center under the direction of Dr. Sherene Baugher. The first investigation was a Phase 1B survey conducted in advance of improvements in two locations: the area immediately north of the Pond Garden, and in the vicinity of the Matron's Cottage to the north of the proposed Lions Garden. This survey concluded that the former area contained no potential archaeological resources, but recommended further investigation adjacent to the Matron's Cottage (Baugher et al 1985b:20-21). The second investigation is effectively a Phase II survey of the area adjacent to the Matron's Cottage (Baugher and Baragli 1987). Neither of

these investigations uncovered any evidence of prehistoric occupation. One present stream course can be documented for the project area running from south to north along the western side of the property. It is the opinion of the Principal Investigator that the project area has the potential for supporting a permanent or seasonal camp associated with the utilization of the marine resources of New York Harbor located only a few hundred feet to the north, taking fresh water and possibly food resources from the stream, and probably hunting and gathering other food resources in the interior of the island. The relatively elevated ground, particularly in the Rose Garden project area, overlooks the stream and is approximately 400 feet east of this now channelized water course.

HISTORIC SENSITIVITY

The Seventeenth and Eighteenth Centuries

Staten Island was known as Eghqaous, Motanucke, Monockong, or Aquehonga by the Indians who occupied it (Leng and Davis 1930 I:79-80). In 1626 the island was bought from the natives by the Director of the Dutch West India Company. Michael Pauw was given a patent of Patroonship in 1630, but he subsequently gave it up to the Directors of the Dutch West India Company (Historical Records Survey 1942:xiii; Leng and Davis 1930 I:88). The patent was sold to David Peters de Vries who established the first permanent settlement of Europeans on the island in 1638 (Historical Record Survey 1942:xiii). Willem Kieft was Director-General of the Dutch West India Company and Governor of the colony of New Amsterdam during the 1630s and 1640s (Lyman 1975:31-32; Bayles 1887:53-56). He was blamed for the Indian wars that had erupted throughout the 1640s on Staten Island and in other parts of New Amsterdam as a result of his overly forceful methods (Bayles 1887:53-56). Under Director Kieft an Indian war broke out during 1640 which brought destruction to the settlement (Historical Record Survey 1942:xiii; Leng and Davis 1930 I:92-93). About this same time Kieft built a rum distillery (the first distillery in North America) for the purpose of selling rum in return for furs (Historical Records Survey 1942:xiii-xiv). The Dutch West India Company granted Cornelius Melyn (1641) all of Staten Island except for the de Vries farm (Historical Records Survey 1942:xiv). Ten years later Baron Hendrick van der Capellan was granted a deed from Melyn for one third of the island (ibid.:xv). Upon the death of Capellan (1659) Melyn sold his interest to the company thus ending the Patroon system on Staten Island (ibid.:xvi).

In 1664 the colony of Nieuw Amsterdam was taken from the Dutch West India Company by the British. Governor Francis Lovelace (1670) made the final purchase of Staten Island from the Indians. The English made all of Staten Island a single town with Nicholas Stillwell as the first constable. Lovelace set up two towns on the island (Old Dorp or Town and New Dorp) and granted patents to several people (ibid.:xviii). Land

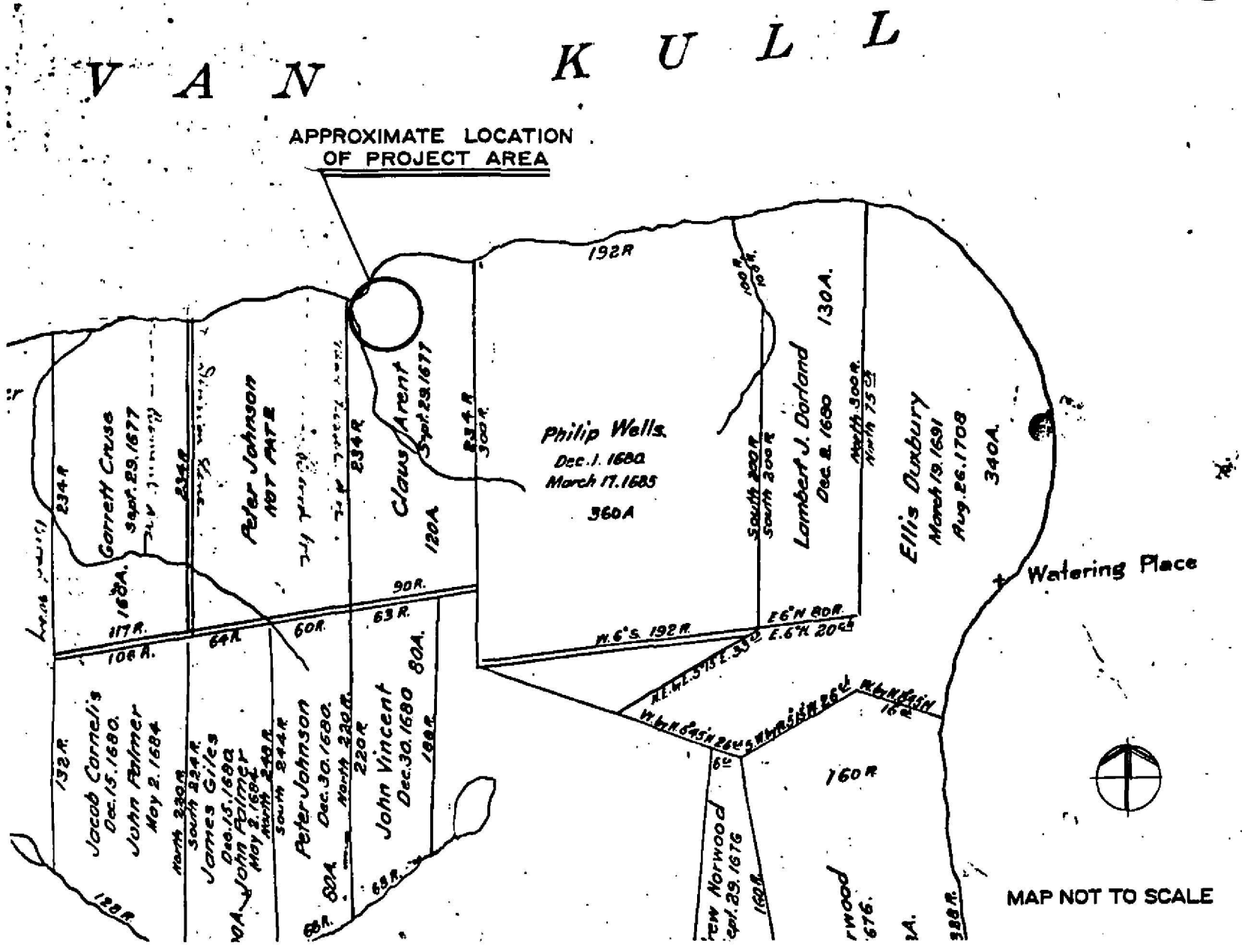


Figure 3 From Frederick Skene's 1907 Map of Staten Island, showing Colonial Land Patents 1668-1712.

surveys were initiated under Lovelace and completed under the governorship of Andros in 1677. Major Edmund Andros (Governor of New York from 1674-1681) was unpopular because the colonists wanted more local autonomy (Lyman 1975:46). He continued the surveys on Staten Island (1675-1677) giving land-grants to settlers (Leng and Davis 1930 I:119). According to Leng and Davis the present site of Sailors' Snug Harbor was on the property of a certain Claus Arent. Figure 3 shows the property of Claus Arent on the Kill Van Kull.

The next governor of New York, Thomas Dongan, divided the colony into counties with Staten Island designated Richmond County. Staten Island was further partitioned into four precincts (North, South, West, and the "Manor" or "Castletown") (ibid. XIX, in Bayles 1887:91). The last included the holdings of Dongan. In 1688 the four divisions were known by the names of Northfield, Southfield, Westfield, and Castletown. Castletown included the site of what was to become Sailors' Snug Harbor (Historical Records Survey 1942:XIX-XX, in Bayles 1887:95). Peter Housman (Huysman), a wheelwright, purchased from Thomas Dongan forty-six acres in Castletown (1760). One of Peter Housman's sons, John, gave to his son-in-law, John Van Name, two acres on Watchogue Road in Castletown. John Housman's son, Richard (Dirk), married Mary and had a son, Isaac. It was Isaac (1778-1859), a judge, who sold property to Snug Harbor (Van Name 1955:8-9). Figure 5 shows the house on the north end of the property. Some members of the Housman family were involved in the Revolutionary War (ibid.:9).

The British held Staten Island during the entire Revolutionary War period (William McMillen, 1988 pers. comm.). Fortifications were constructed on the northern part of the island, and if we include the British sailors on ship as well as those on Staten Island the total garrison consisted of thirty thousand armed men (Steinmeyer 1949:10). When the British fleet sailed past the Narrows it formed a double line of ships from the mouth of Kill Van Kull to Simonson's Ferry. See southeastern corner of Anglo-Hessois map of 1780-1783 (Figure 4). Figure 4 shows this channel along the north coast of Staten Island leading out into New York Bay. There was a minor sea battle, but no casualties (Steinmeyer 1949:7). William Howe, the British general, set up headquarters in the house of Adrian Banker (Bauker) which, facing Richmond Terrace, was three or four hundred yards west of the present site of Snug Harbor according to the Anglo-Hessois map of 1780-1783 (William McMillen, 1988 pers. comm.). Figure 4 shows the Banker property along the Kill Van Kull just west of the small stream. On the Snug Harbor site, itself, sat the Veghte or Vechten property. The Veghte or Vechten family were descendants of the same individual who held the property a century earlier. Figure 3 (the handwritten notations on this map are the names of small roads or farm lanes) shows the land of Claus Arent, ancestor of Veghte, and Figure 4 shows a stream flowing into the channel from the Veghte property. Directly to the east of the Veghte or Vechten land was the property of a J.V. Derbilt. According to Figure 4, the

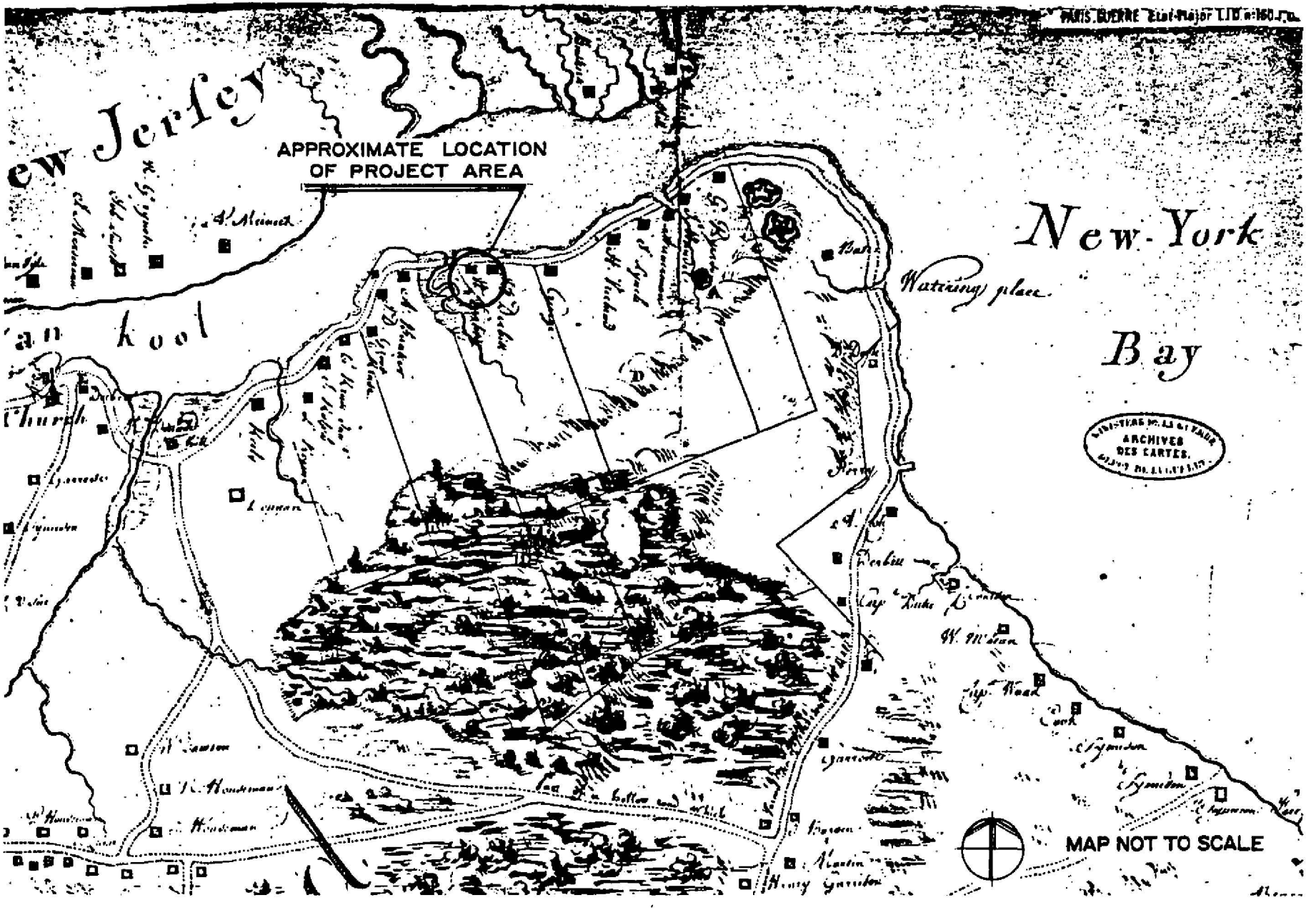


Figure 4 From Plan No. 31 Du Camps Anglo-Hessois dans Staten Island, 1780-1783.

'Derbilt' property lies to the east of the stream. This may be a misinterpretation of the Dutch name Vanderbilt when we consider the fact that this map was made by an individual who was not Dutch and probably did not have much familiarity with that language. After the Revolution the property of Tory landowners was confiscated and given to small farmers in what was to be the New Brighton and West New Brighton areas (Historical Records Survey 1942:xxiii; Leng and Davis 1930 I:208-209).

The Nineteenth Century

In 1801, eighteen years after the American Revolution had come to a close, the history of Sailors' Snug Harbor begins. Captain Robert Richard Randall of New York, in his will, left his estate in trust for the purpose of building an institution "for the maintenance and support of decrepit, aged, and worn-out sailors" (Harper's 1873 from Archives of Staten Island Institute of Arts and Sciences (SIIIAS):191). Foreign-born inmates had to prove that they had sailed for at least five years under the American flag (ibid.:190). Alexander Hamilton drew up the will providing that the estate be used to found Sailors' Snug Harbor (Archives, SIIAS). Randall's estate consisted of land in Manhattan. Due to a shortage of space on the Manhattan property the trustees had to look elsewhere (Bagger 1873:191-192). It was not until 1828, however, that the Legislature granted permission to the trustees to purchase the land on Staten Island offered to them (ibid.). There were lawsuits against the trustees by individuals claiming to be heirs of Randall (ibid.). In 1830 the United States Supreme Court decided in favor of the trustees and in 1831 they bought the Staten Island site (ibid.).

Captains John Whetten and William Whitlock (president and vice-president respectively) of the Marine Society selected the present location of Snug Harbor (Bayles 1887:653). It was at this time that the farm of Isaac Housman was purchased by Snug Harbor. On Figure 5 note the house on the northern end of the property. Construction began in 1831 with the laying of the first cornerstone. Two years later thirty-seven residents were able to move into the first completed building (Baugher et al 1985a:36). It should also be noted that according to a map of 1831, the same map that has the Housman farm, there was a factory very close to the farm. Unfortunately the name of the factory cannot be determined (see Figure 5, taken from Gibson, Shepherd and Bauer).

The institution was in operation by 1831, and further expansion and construction was undertaken. In 1834 the Randall memorial was erected and two years later a wooden fence was begun for the purpose of keeping alcohol out of the Harbor (Baugher et al 1985a:36). The wrought iron fence that was erected in 1842 was not much more successful than the wooden fence in keeping alcohol out of the residents' hands (ibid.). Two wings, connected by corridors, were added to the main building. Snug Harbor was run by a hierarchy of officers: the Governor, Steward, Physician, and Chaplain (ibid.:47). The Steward functioned as an accountant and began to serve as assistant governor in 1842 (ibid.). All

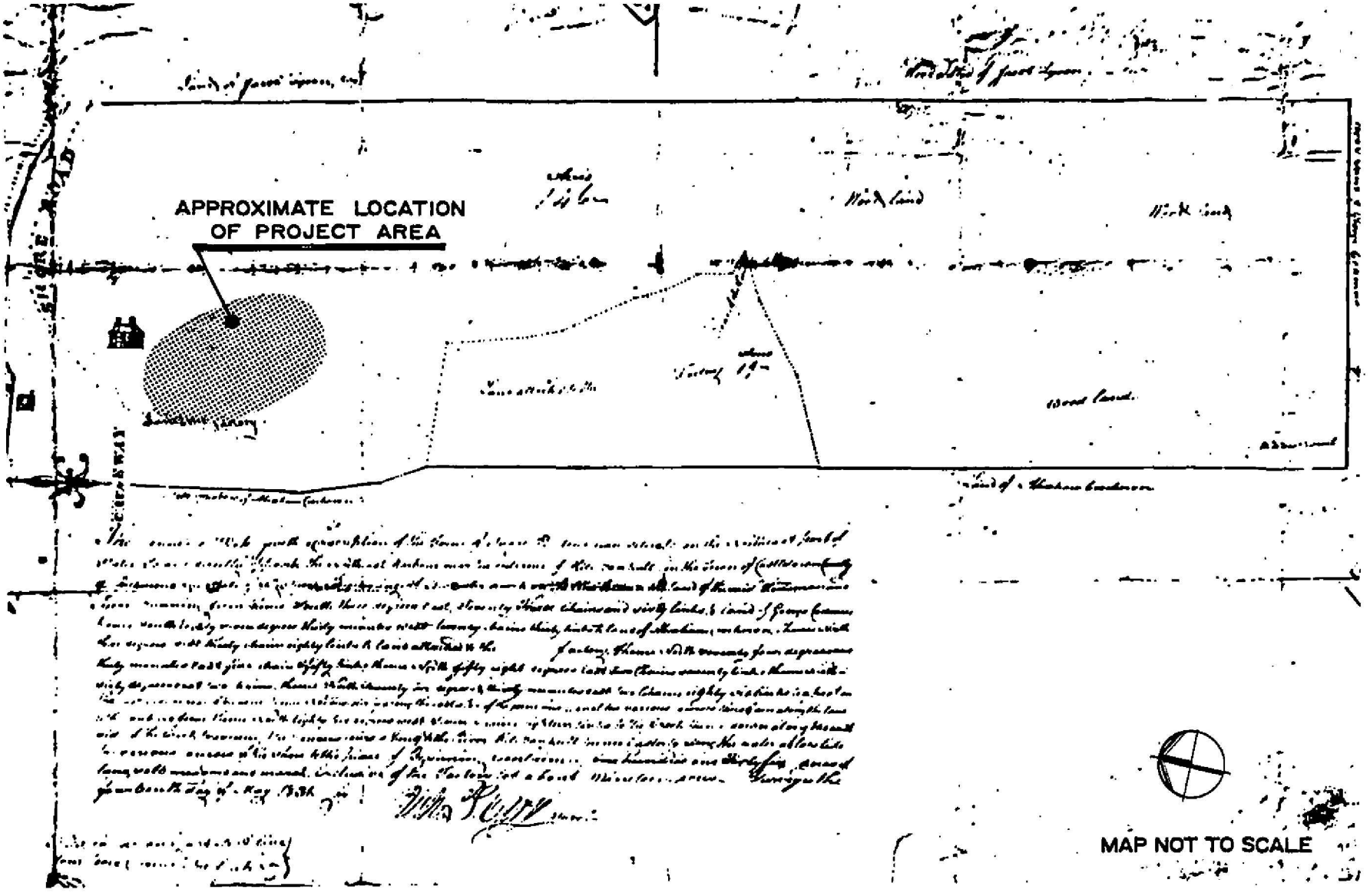


Figure 5 1835 Survey of the Isaac Housman Farm, (Gibson, Shephard and Bauer 1979).

supplies were purchased by the Steward who assisted the Governor in the management of the institution. There was a Matron who served as a directress of female staff and inventoried laundry supplies, bedding, and other household items (ibid.).

The Governor and then the Chaplain lived in the Housman farmhouse, bought from Isaac Housman in 1831, until the construction of their residences had been completed (Baugher et al 1985a:66, see Figure 5). The Housman farm seems to have been located near the Randall memorial in the northwest corner of Snug Harbor (ibid.). By 1847 the original Governor's House lay just north of the present site of the duck pond. The Steward and his wife (the matron) lived in the Matron's Cottage between 1845 and 1879. In that year a new residence was built for the Steward and his family while the Matron's Cottage housed the Matron (who after 1879 was no longer the Steward's wife) and the female employees. On Figure 8, note the Steward's residence in the northeast section of the Snug Harbor property. The Matron's Cottage was designed by Frederick Diaper (1845) as a wash house and bake house (Baugher and Baragli 1987:7). Even though the cottage was a wash house the Steward and his family resided there (ibid.). In 1855 a new wash house was erected thus leaving the Matron's Cottage for the single purpose of housing the Steward. The Matron's Cottage stands to the southeast of the duck pond. In 1852 the hospital was completed and three years later a chapel was built for the full-time Chaplain (ibid.). Figure 8 shows the hospital in the center of the property and the church to the northeast.

Construction and physical improvements continued under the auspices of Governor Thomas Melville, a sea captain and brother of author Herman Melville (Baugher et al 1985a:36). The archives of Snug Harbor indicate that there were sewers, water closets, and piped water at the institution before the other residents of northern Staten Island were benefiting from such conveniences (Baugher and Baragli 1987:68). The Matron's Cottage, for example, was provided with plumbing and a toilet room in 1866 (ibid.). According to an Engineer's Annual Report (1878) there was "more piping here than there is in all the houses in New Brighton combined" in referring to Snug Harbor (ibid.:69). In 1875 Snug Harbor became a part of the Village of New Brighton thus giving it the use of the village's public services (ibid., Figure 6). During the early 1880s New Brighton began to receive public water and the construction of sewers had been initiated (ibid.). Sailors' Snug Harbor was linked to the New Brighton system. Also, during the Melville period of the 1870s, two gatehouses were erected, wings were added to the hospital, three dormitories were built in addition to a boat house and a dock house. Another dormitory was built and the hospital was expanded in 1880. At this time the building that had originally been the Housman farm was demolished (Baugher et al 1985a:66). As of 1887 Sailors' Snug Harbor had eight dormitories. a hospital for two hundred patients, a church, a laundry, quarters for employees, offices, a machine shop, a paint shop, an icehouse, refrigerators and meat rooms, a kitchen, a morgue, barns

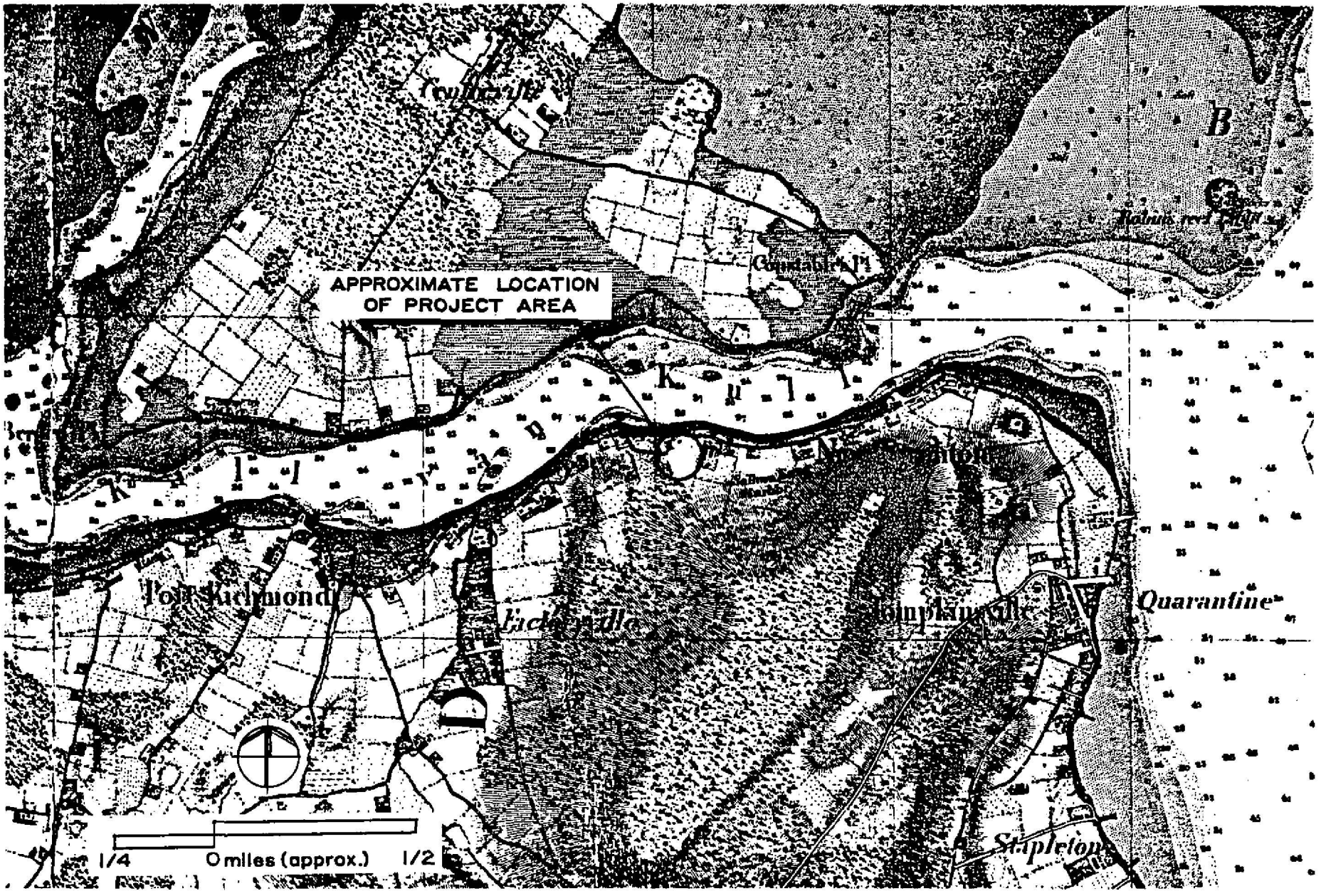


Figure 6 From U.S. Coastal Survey Charter of New York Harbor, 1836-1839.

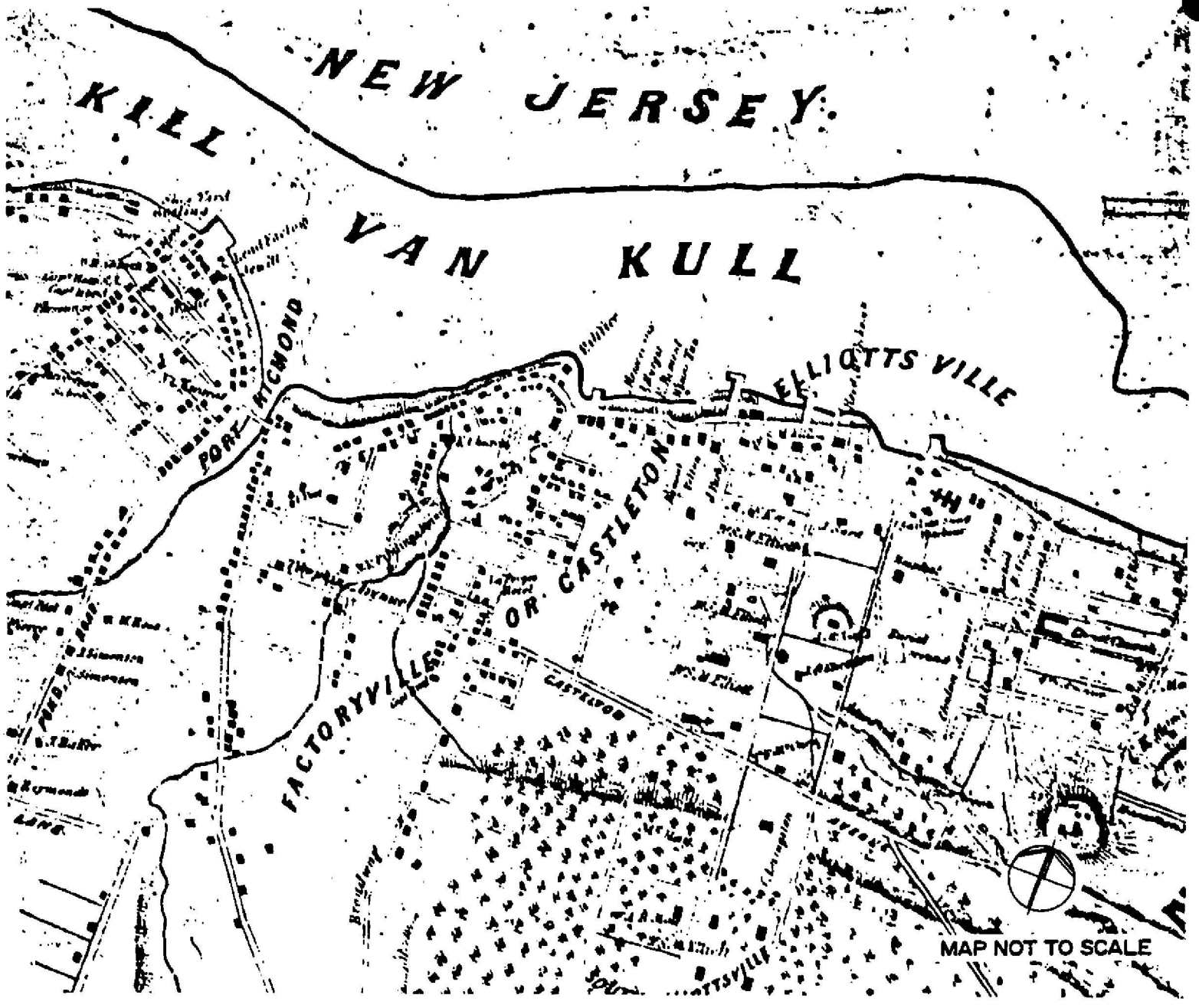


Figure 7 From Butler's 1853 Map of Staten Island.

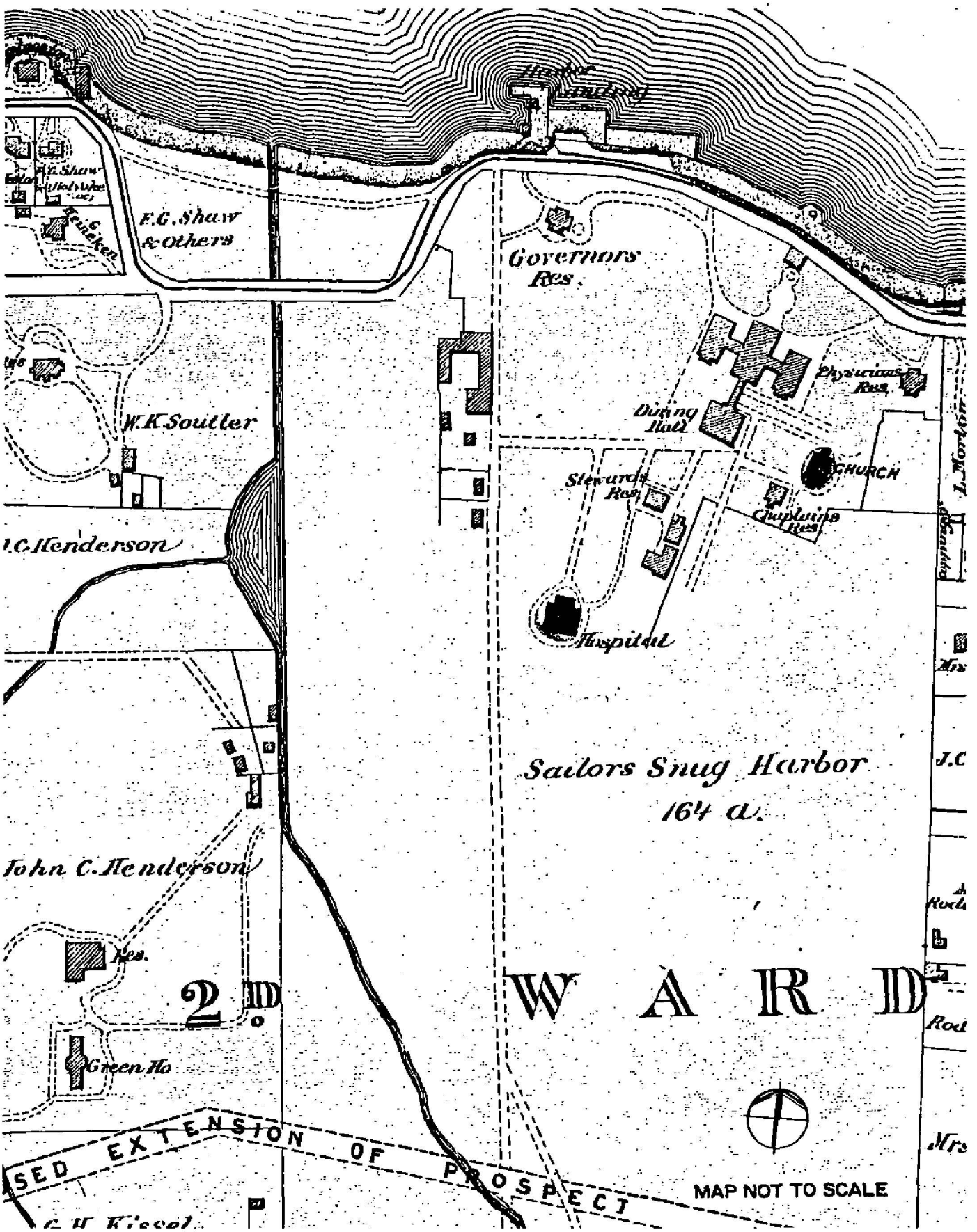


Figure 8 From Beers' 1874 Atlas of Staten Island, Richmond County, New York.

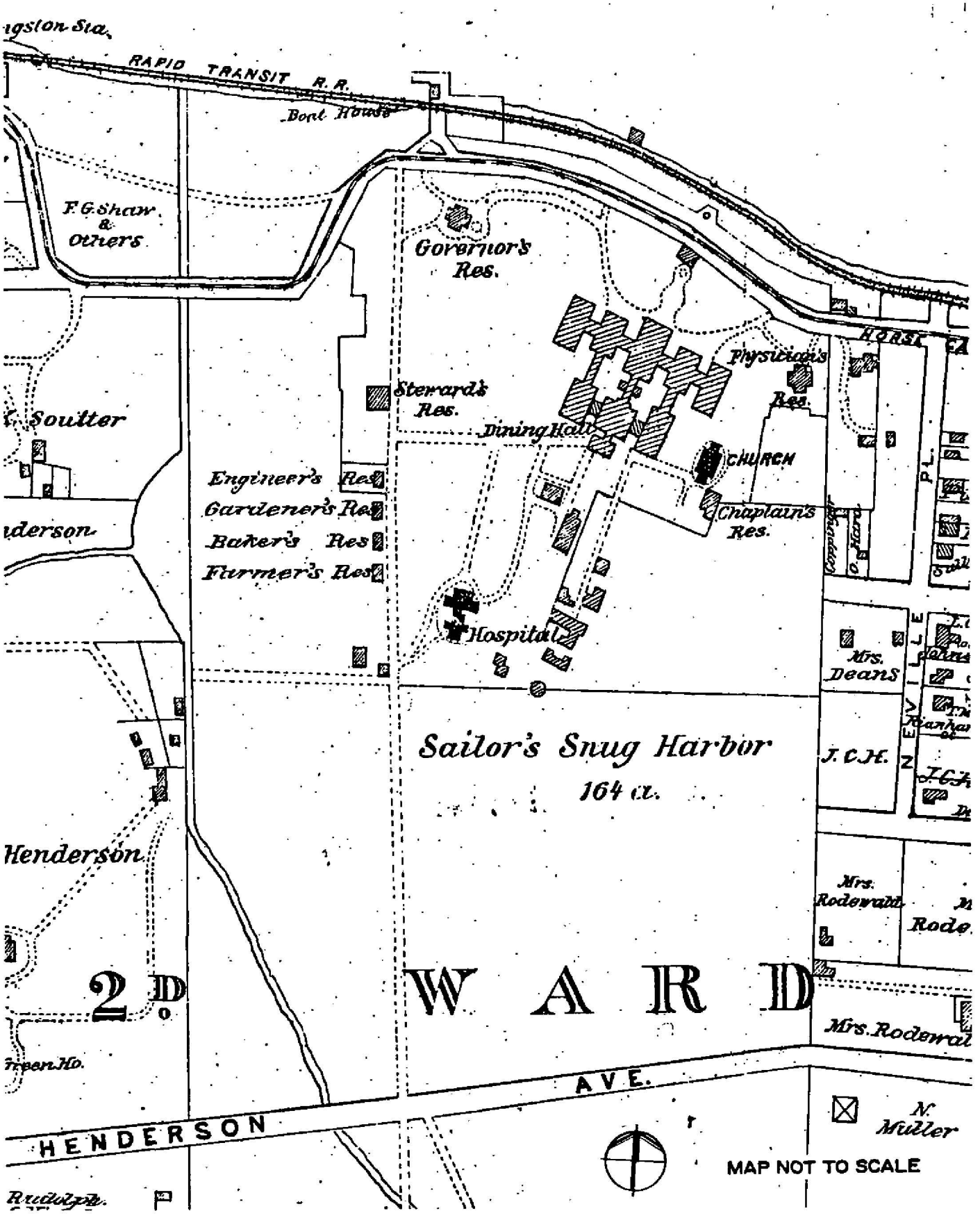


Figure 9 From Beers' 1887 Atlas of Staten Island, Richmond County, New York.

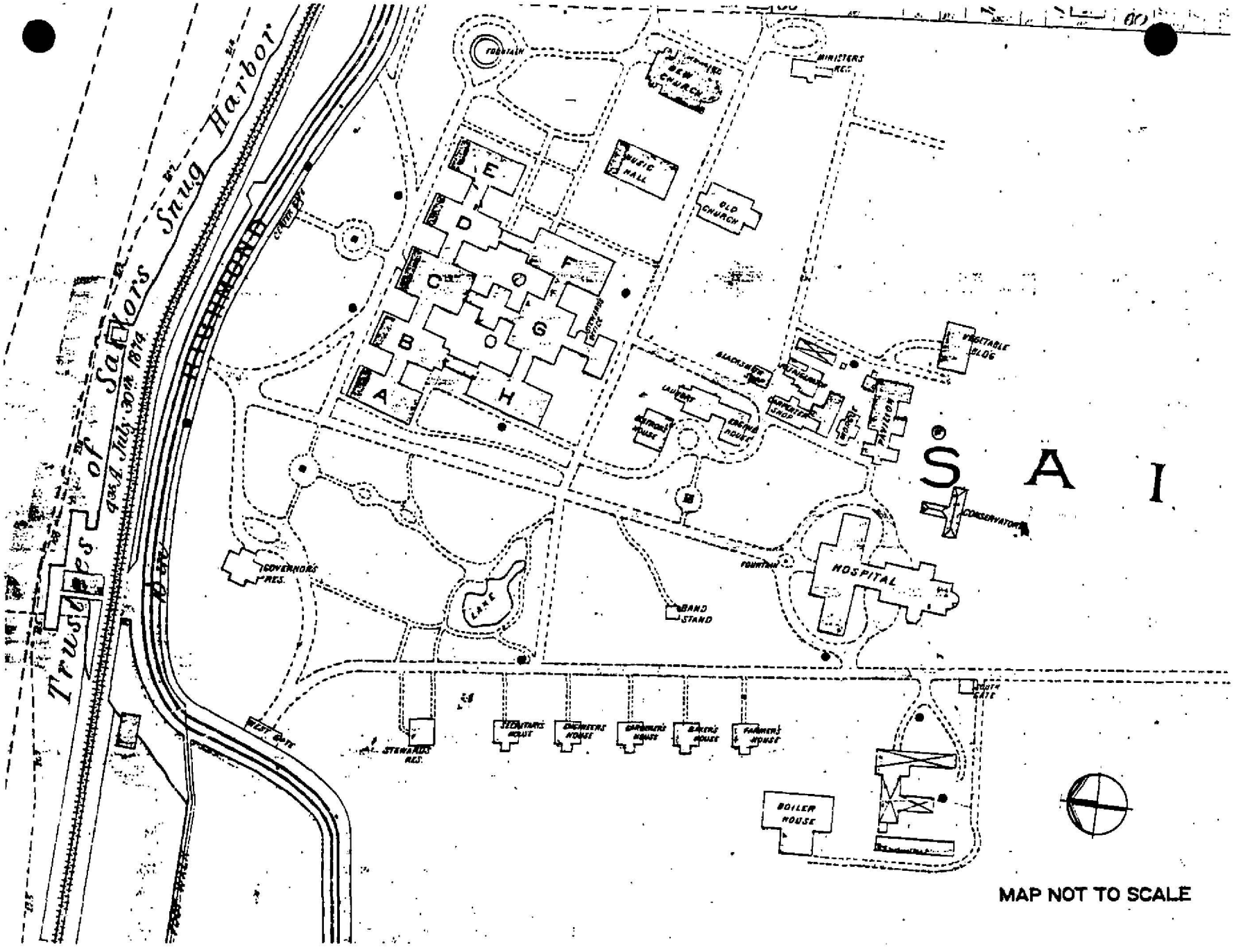


Figure 10 From Robinson's 1898 Atlas of the Borough of Richmond, New York.

and greenhouses (Bayles 1887:655) (see Figures 9 and 10). Some of the features not shown in Figure 9 show up in Figure 10 and are labelled. Bayles, who gives a lengthy description, uses no diagrams and gives no references to his sources (Bayles 1887:655). There is a greenhouse standing adjacent to the present project area. There was a central building which housed the Governor's offices, the library, and the grand entrance hall (ibid.). The five connected buildings which make up the central building was linked by corridors which were used as sitting rooms. "The central rear building contains the four dining rooms, steward's office and store rooms, and from this corridor connects with the main kitchen below, and the matron's office and clothesroom above" (ibid.). There were springs and a reservoir in the rear of the property (ibid.:655-656). The springs and reservoirs do not appear on any of the maps, however. Foods and supplies for the residents were produced on the grounds of the institution (ibid.:656). There was a Tailor Shop which was housed in a building called the "Pavillion" (see upper-center of Figure 10). The same structure is labelled "Tailor Shop" and "Employees Quarters" on a 1906-7 topographical map (see also the 1898 Bird's Eye Drawing in Curry and Paulo 1984:18). Also, by 1887 the original Physician's house was demolished and a new building was added to the hospital (Baugher et al 1985a:37). Further embellishments on the property at the end of the nineteenth century included the statue of Robert Richard Randall (1884), the Randall Memorial Church (1892), the Music Hall (1892), and a circular pool in front of the Randall Memorial Church (1893). During the same year a statue of Neptune was also completed in front of the church and the Music Hall, and in 1899-1900 a sanatorium was erected (ibid., Figure 10).

The Twentieth Century

During the early decades of the twentieth century Sailors' Snug Harbor was faced with a legal problem. In 1903 the right of the residents to vote was taken away by a court of New York State which declared that "wards of charities" could not vote, according to state law (Baugher et al 1985a:37). This ruling was not rescinded until 1946. In 1915 sailors at Snug Harbor witnessed the passing of the Seamen's Act by Congress, legislation designed to improve conditions on ships (ibid.). One other event relevant to seamen was the strike of 1936-1937 at the port of New York. The outcome of the strike was the formation of the National Maritime Union of America and the application of the New Deal legislation to seamen (ibid.).

From the 1930s onward Sailors' Snug Harbor began to experience some major changes. First of all, due to the Federal laws designed to help seamen, there was less of a need for a charity such as Snug Harbor. In addition to this social phenomenon the institution was running into financial difficulties. During the 1930s the trustees of Snug Harbor sold some of the property to developers (ibid.). As of 1945 there were only 375 residents at the Harbor and four years later the trustees leased to New York University the block north of Washington Square

Figure 11 From Borough of Richmond Topographic Survey, Sheets No. 3 (April, 1907) and No. 10 (December 1906).

(ibid.). Demolition of certain buildings began in the early 1950s. The barn (located west of Hospital #2), machine shop, carpenter shop, and three hospital buildings were torn down in 1951. The Randall Memorial Church and the Governor's House (1847) were removed in 1952 and 1955 respectively. In 1965 New York City Landmarks Preservation Commission gave landmark status to Snug Harbor, but the trustees fought it because they believed that its preservation would be an economic hardship (ibid.). In 1967 the Supreme Court of New York State ruled in favor of the trustees, but a year later the court decided that further evidence would be required before the remaining buildings could be torn down (ibid.). The City of New York (1972) bought the buildings and thirteen Snug Harbor acres (ibid.). During the following year the city purchased the other sixty-two acres (ibid.). The trustees moved to Sea Level, North Carolina where they opened a six-million dollar facility in 1976 (ibid.).

Presently Sailors' Snug Harbor is a museum and cultural center. It features a Botanical Garden, an Art Lab, galleries, an conference center, a Children's Museum, and a Visitor's Center. There is a Veteran's Memorial Hall in which shows and films are presented. Seven buildings are declared landmarks (ibid.:3). Parking lots, sewer, and conduit lines are included (ibid.:4). According to an engineer's diagram there is a bricklined pond with drainage pipes within the Pond Garden parcel. There are two brick buildings, one is a two story structure, the other is two and one-half storiesin the vicinity of the Rose Garden parcel. Electrical lines are present as well. High bushes are also in the vicinity. The Lions Garden parcel is vacant with the exception of the brick Morgue structure adjacent to the north.

CONCLUSIONS AND RECOMMENDATIONS

The above text has documented the fact that the Staten Island Botanical Garden project area may preserve evidence of prehistoric occupation. This is particularly true of the location of the proposed Rose Garden. This parcel contains relatively elevated ground within a reasonable distance of both fresh water and potential food resources. This location was also judged archaeologically sensitive in the predictive model developed for the cultural center (Baugher etal 1985a: Figure 3.27). That report also suggested that this location may preserve remains from three former structures, dating to the later nineteenth century. This conclusion is based on the 1874 Beers' Atlas (see Figure 8) which is the only map depicting them. It is possible that remains of these buildings are within the Rose Garden project area, or that they lie to the west between the project area and the present baseball diamond. This reasoning is based on our comparison of the Beers' 1874 and 1887 atlases with the 1890 Robinson Atlas and the 1906/7 Topographical Survey (see Figures 8-11). If the two rectangular structures west of the Steward's Residence in Figure 8 (later the Matron's Residence) are the Engineer's and

Gardener's Residences shown in Figure 9 and 10, then Beers has placed all of this line of structures too close to the north-south road. This suggests that all of the structures depicted in Figure 8 along the west side of Snug Harbor are shown too near the road. This location is also close to that of the unnamed early nineteenth century factory shown on Figure 5 and possibly Figure 6. A detailed comparison of the topography of the proposed Rose Garden location in 1906/7 and 1984 was carried out using the Topographical Survey (Figure 11) and the Department of General Services 1984 Topographical and Property Line Map (see Figure 13). These maps depict this location before the installation of the tennis court and after it went out of use. There is virtually no change in elevation shown by these two maps. It is therefore very unlikely, in our opinion, that any considerable amount of fill was deposited here to prepare the location for the tennis court. It is likely that only a thin layer of clay was deposited and graded to form the court. It is our conclusion that there is little evidence to suggest disturbance in this location. The Beers' 1874 Atlas is the only source that shows structures here (Figure 8), but there is reason to believe that it is possibly inaccurate. It is possible that with the exception of landscaping and grading nearly all of this location has remained undisturbed for over one and one-half centuries, and could therefore preserve evidence of the prehistoric period.

The proposed Pond Garden project parcel was not judged archaeologically sensitive in the cultural center predictive model (Baugher etal 1985a:Figure 3.14). The existing duck pond was evidently constructed between 1887 and 1898 based on cartographic evidence (see Figures 9 and 10). The pond is also depicted on the 1902 Drainage System Map and the 1906/7 Topographical Survey (Figure 11) as well as subsequent maps such as the Department of General Services 1984 Topographical and Property Line Map. Both the 1902 and 1984 maps show a drain line leading off to the northwest. A detailed comparison of the topography depicted on the 1906/7 and 1984 maps shows very little change (see Figure 14). To the west of the pond the grade has increased by up to one foot, indicating that some additional fill may have been added here. To the south of the pond the grade has decreased by approximately six inches, indicating that some soil may have been removed. The construction of the pond with its low brick surrounding wall and associated water supply and drains would have disturbed at least the top three feet of soil here. This would leave virtually no chance of recovering any prehistoric evidence in situ. No documentary or cartographic evidence was found that suggested that any other historic structures existed here. It is our conclusion that the only potential archaeological evidence that may be preserved within the Pond Garden parcel would be related to the construction and subsequent maintenance of the existing duck pond.

The third project area parcel is the location of the proposed Lions Garden. This location adjacent to the standing morgue building was formerly the site of the Tailor's Shop and Employee's Quarters or Pavi-

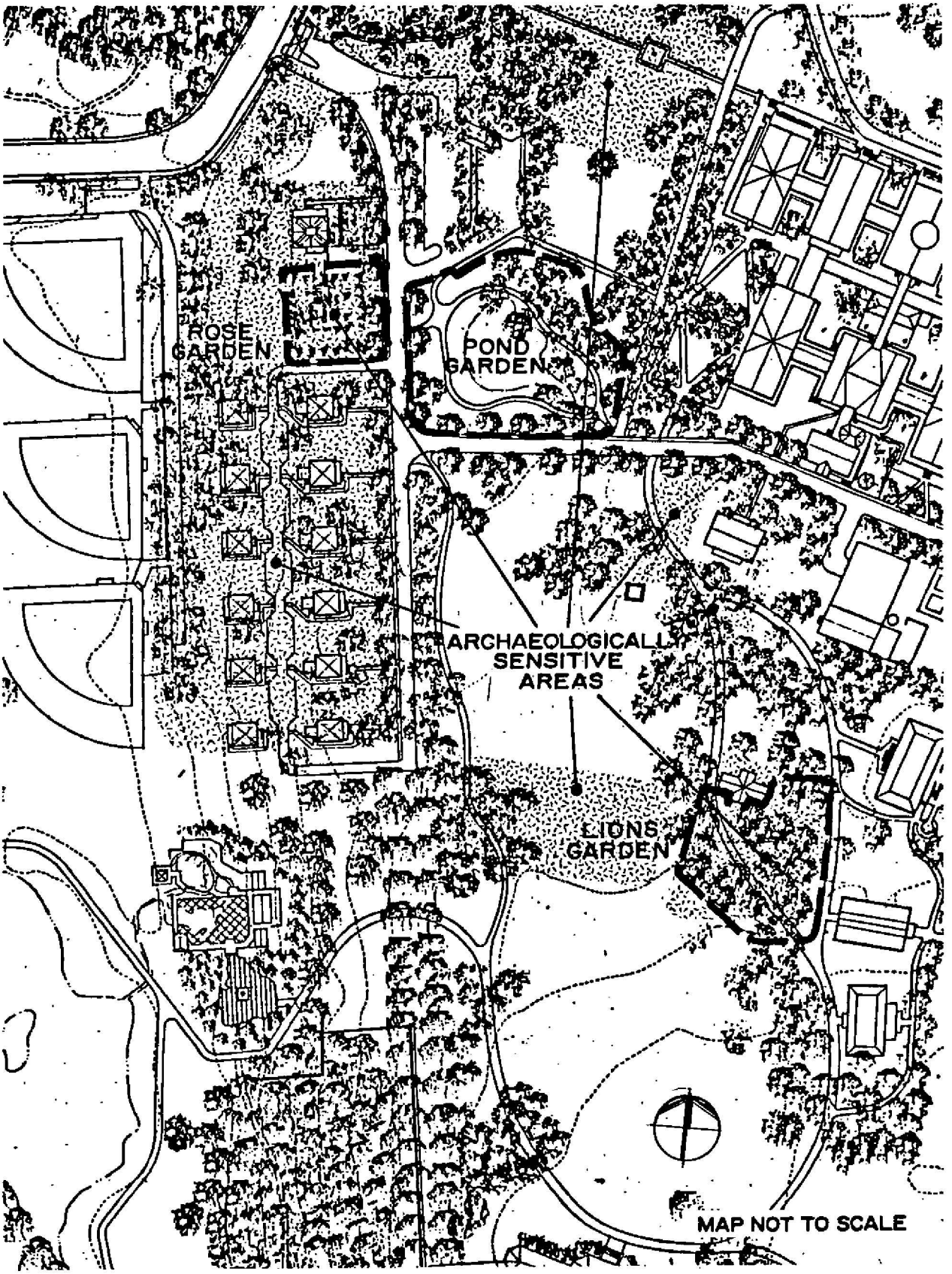


Figure 12 Project impact areas and archaeologically sensitive areas (Baugher and Baragli 1987).

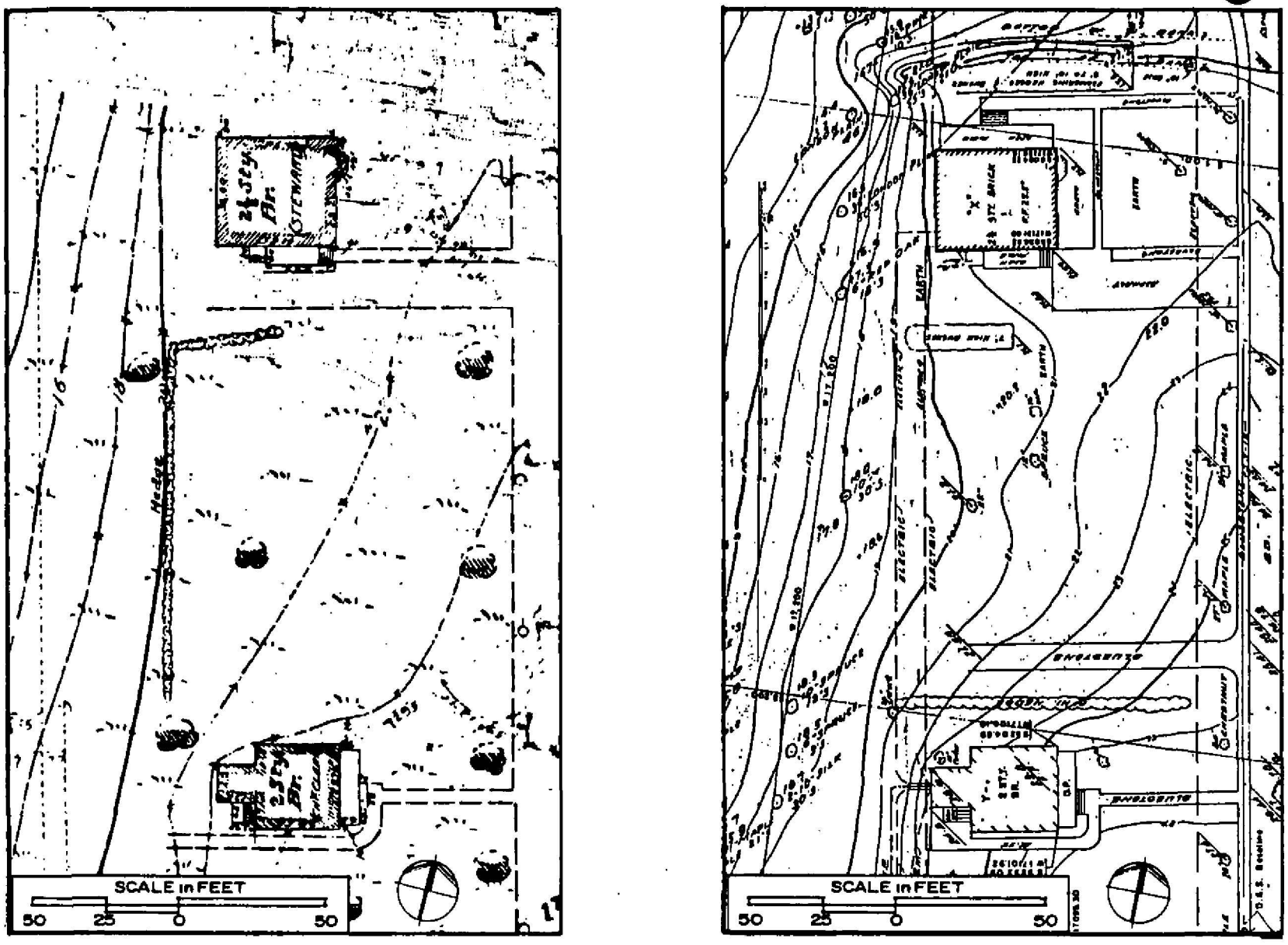
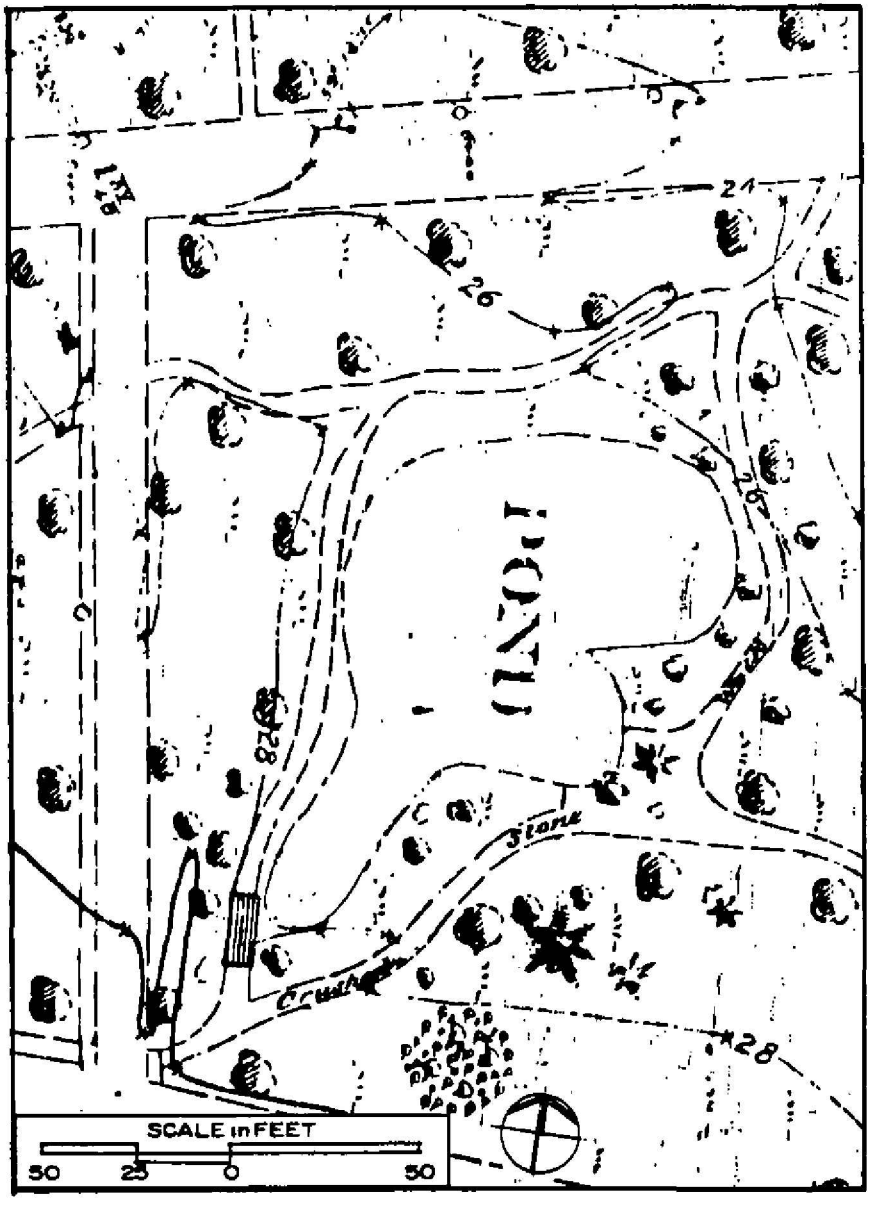


Figure 13 Topography of the proposed Rose Garden in 1907/7 and 1970/84 (Borough of Richmond 1906/7: Department of General Services 1984).



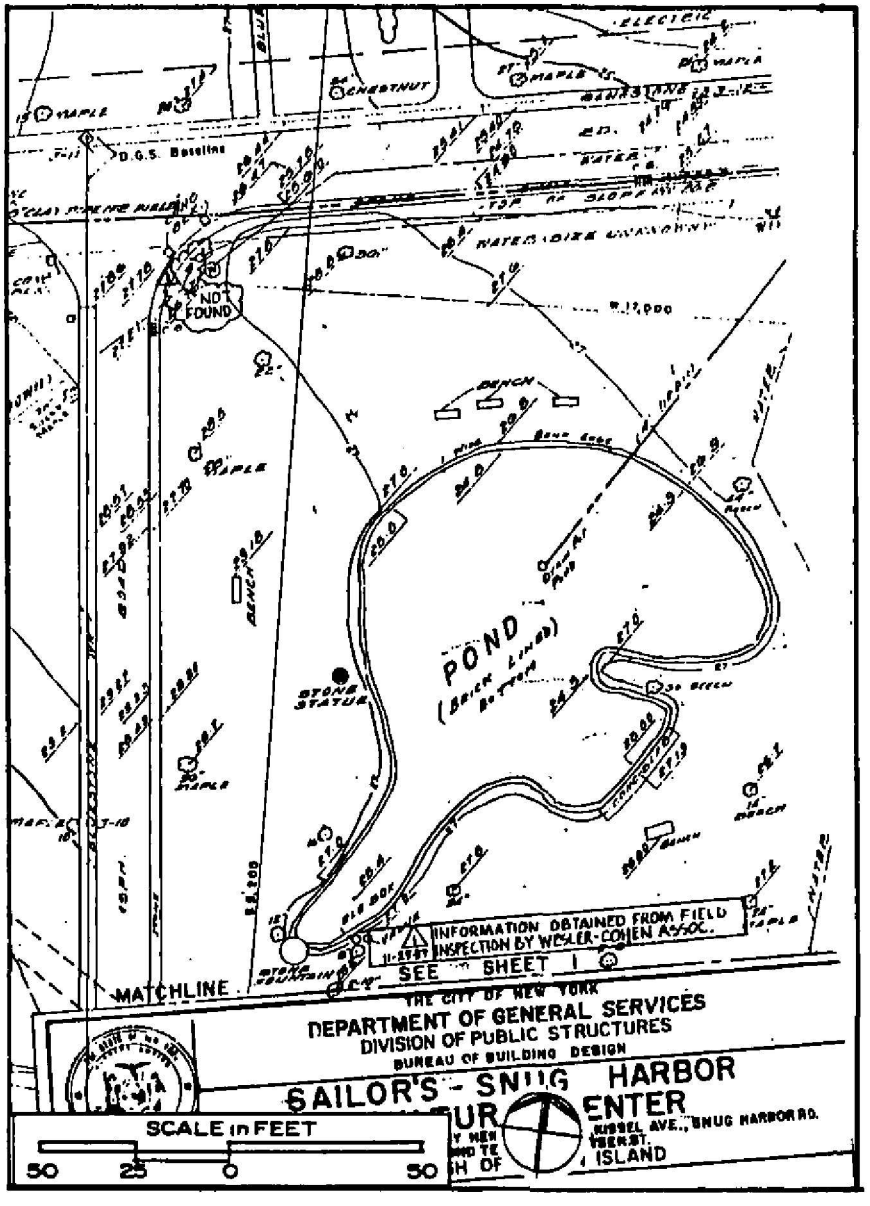


Figure 14 Topography of the proposed Pond Garden in 1906/7 and 1970/84 (Borough of Richmond 1906/7: Department of General Services 1984).

lion (see Figures 10 and 11). The Pavilion structure first appears on the Robinson Atlas of 1898 (Figure 10) and in a "bird's eye view" drawing also of that year (Curry and Paulo 1984:18). This structure is described as a one story brick and frame Tailor Shop and Employee's Quarters on the 1906/7 Topographical Survey (Figure 11). Unfortunately, this map is not consistent in noting basements in the structures depicted. For example, the row of five cottages south of the proposed Rose Garden do not include references to basements although they clearly exist. The 1902 Drainage System Map provides one clue. Five drains are shown running under the Tailor Shop and Employees' Quarters structure (which is not named on this map). None of the drains for the five cottages run underneath those structures, so it appears likely that the Tailor Shop structure had no basement. The Tailor Shop structure must have been demolished between 1907 and 1931. An aerial photograph of Sailors' Snug Harbor taken in 1931 shows the location as vacant (Curry and Paulo 1984:22). Parts of the foundation and possibly some of the ground floor of this structure and a small outbuilding adjacent to the northeast may still exist below the surface of the Lions Garden parcel. There would appear to be little chance of recovering prehistoric evidence here, since the fresh water supply of the stream is well over 300 yards distant. The Lions Garden location was judged potentially sensitive in the predictive model (Baugher et al 1985a:Figure 4:1).

We are recommending that Phase 1B archaeological testing be undertaken on both the Rose Garden and Lions Garden parcels prior to construction. This is being done to test the former primarily for prehistoric evidence and the latter primarily for nineteenth century historic evidence relating to Sailors' Snug Harbor. We suggest that a shovel testing program with a level of effort equivalent to a 50 foot grid pattern would be an appropriate methodology for this presence/absence testing. Since the Pond Garden project consists largely of the reconstruction of this pond, we suggest that archaeological monitoring of the construction excavations might recover information relating to the pond structure. This information could be of use in reconstructing the pond.

Acknowledgements

We would like to extend our thanks to the Map Division and to the Genealogy Division of the New York Public Library as well as to Mr. Hugh Powell of the Staten Island Institute of Arts and Sciences, to Mr. Carl Hempel of the Topographical Bureau of Staten Island's Borough Hall, to the staff of the New York City Landmarks Preservation Commission, in particular, Dr. Sherene Baugher and Mr. Daniel Pagano, to Sailors' Snug Harbor Cultural Center, and to Dr. Barnett Shepherd, Mr. Steven Barto and Mr. William McMillen of the Staten Island Historical Society for their help in the acquisition of materials necessary for the completion of this project.

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PHASE 1B ARCHAEOLOGICAL SURVEY OF THE PROPOSED ROSE AND LIONS GARDENS STATEN ISLAND BOTANICAL GARDENS RICHMOND COUNTY, NEW YORK

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August 1989

TABLE OF CONTENTS

LIST OF PLATES

LIST OF FIGURES

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PHASE 1B ARCHAEOLOGICAL SURVEY OF THE PROPOSED ROSE AND LIONS GARDENS STATEN ISLAND BOTANICAL GARDENS RICHMOND COUNTY, NEW YORK

INTRODUCTION

The purpose of this Phase 1B Archaeological Survey is to document the presence or absence of potential prehistoric and/or historic archaeological resources within the proposed Rose and Lions Gardens Project Areas in the Staten Island Botanical Gardens, Richmond County, New York, through use of physical testing techniques.

The project areas are located entirely within the boundaries of the former Sailors' Snug Harbor in northeastern Staten Island. The specific project area for the proposed Rose Garden is located within the northwestern portion of the Harbor just to the south of the former Governor's House. See Figure 1 for the location of the project parcel. The Phase 1A report on the Botanical Gardens (Roberts and Adams 1989) concluded that this parcel could preserve evidence of both the prehistoric and historic periods. A Phase 1B survey was recommended for the proposed Rose Garden project area to provide evidence of the presence or absence of these resources.

The project area for the proposed Lions' Garden is located within the west-central portion of Snug Harbor immediately to the south of the former Morgue. See Figure 1 for the location of this parcel. The Phase 1A report on the Botanical Gardens concluded that this location was not sensitive to the preservation of prehistoric archaeological evidence, but that it potentially could preserve evidence relating to the late nineteenth and twentieth century operation of Sailors' Snug Harbor (Roberts & Adams 1989:11-12). The Lions Garden parcel falls within an area judged to be archaeologically sensitive in the Archaeological Predictive Model of Snug Harbor Cultural Center (Baugher et al 1985), and includes the former location of the Tailor's Shop and Employees Quarters, also known as the Pavillion. It was expected that remains of the walls and/or foundations of this structure would be found within the Lions Garden parcel, as well as possible features relating to either the Tailor's Shop and Employees Quarters or the earlier Morgue which still stands to the north. Some additional documentary research was undertaken at Fort Schuyler (S.U.N.Y. Maritime College) in the Bronx and at the Staten Island Historical Society at Richmondtown to determine if features associated with these structures could exist within the project parcel.

The Morgue was constructed during 1885/6 (Gibson, Shepherd and Bauer 1979:4.34). Prior to this both a water supply system and a sewer system had been constructed at Sailors' Snug Harbor. During June 1877 an agreement was made between the Harbor and one P.J. Condon of Jersey City, New Jersey to construct a reservoir. The Sailors' Snug Harbor Governor's Report for 1876 states:

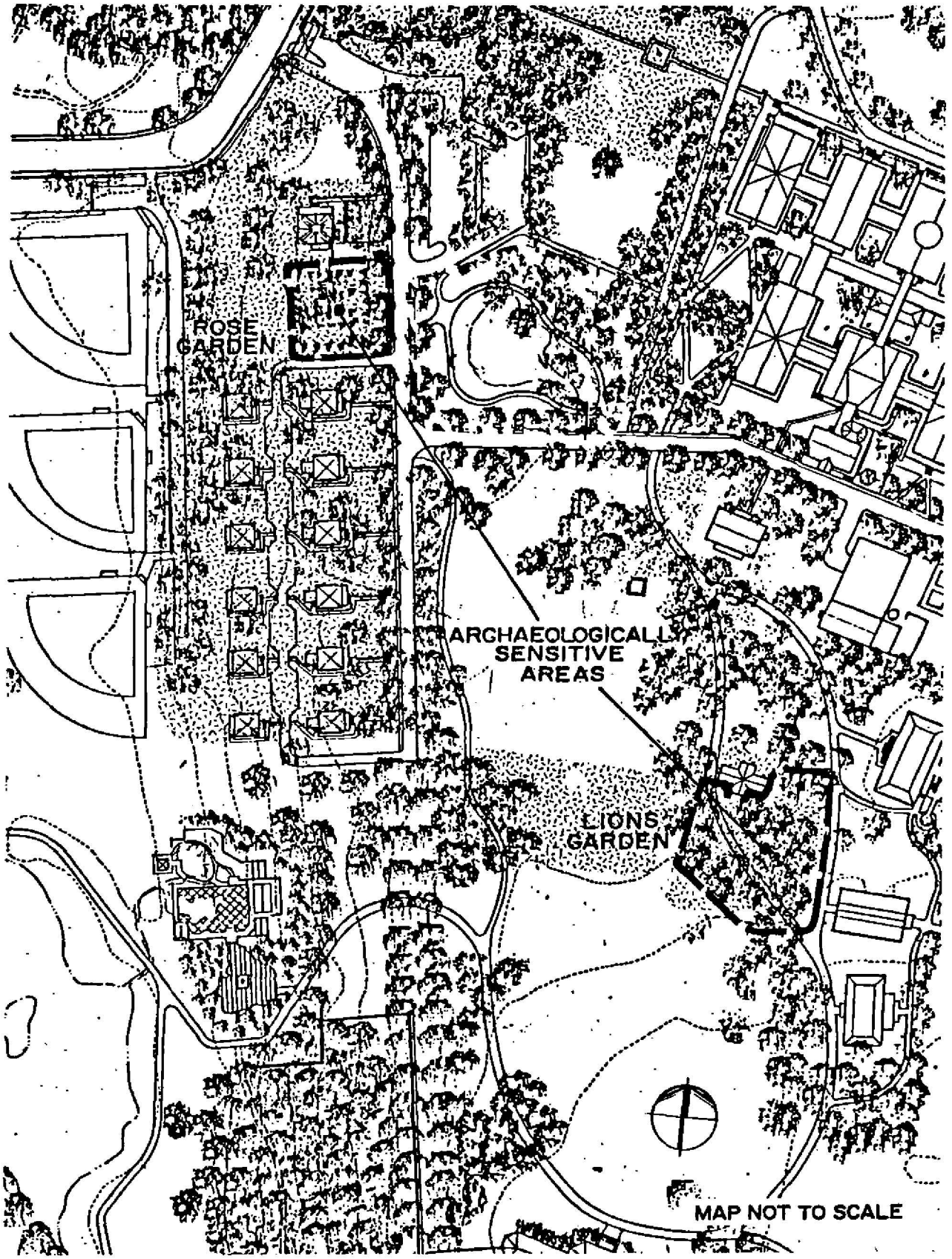

Figure 1 Location of project parcels within the Staten Island Botanical Gardens, Sailors' Snug Harbor.

> "An eighteen inch drain three hundred and fifty feet long and averaging thirteen feet deep has been dug from the N.W. corner of the Dining Hall Building connecting with the Main Sewer to drain the new kitchen." (Governor S.S.H. 1876)

These two documents provide evidence that both systems were either constructed during or in existence prior to the late 1870s. This is confirmed by the Sailors' Snug Harbor Engineer's Report for March 1878:

> "... the plumbing work throughout the Institution is in good condition, although I believe we have more piping here than there is in all the houses in New Brighton combined together." (Engineer S.S.H. 1878)

We now have supporting evidence to state that there is virtually no possibility that any wells, cisterns or privies were built in association with the Morgue. This reasoning also applies to the Tailor's Shop and Employees Quarters or Pavillion which formerly stood to the south of the Morgue but has since been demolished. This structure was built between 1887 and 1898 based on cartographic evidence (Beers Atlas of 1887; Robinson's Atlas of 1898). This is at least a year later than the construction of the Morgue.

In the opinion of the Principal Investigator, the only other variety of features that would be likely near a Morgue would be burials. This is evidently not a possibility in this case. During January 1950, Theodore Siccama, who was the Comptroller and Secretary of the Trustees of Sailors' Snug Harbor, gave a sworn deposition before a court of the County of New York. This deposition states that during or shortly after 1833 a seven acre cemetery was set aside for the burial of retired sailors who died without living relatives (Siccama 1950). The establishment of this burial ground over 50 years before the construction of the Morgue makes it very unlikely that any of the mariners were buried adjacent to the Morgue. Phase 1B archaeological testing of the Lions Garden was recommended despite the lack of archaeological sensitivity at this location to answer questions regarding the nature of the foundations of the Tailor's Shop and Employees Quarters. The landscape architect designing the garden had asked specifically whether any walls or foundations from this building would survive sufficiently intact to be incorporated into the garden design. It was for this reason alone that testing was conducted within the proposed Lions Garden.

FIELD METHODOLOGY

The Phase 1B testing of the proposed Rose Garden at the Staten Island Botanical Gardens began on 1 May 1989 and finished on 4 May 1989. Following the surface collection the entire project area was tested by excavating postholes on 10-foot intervals on five parallel transects. The posthole tests were excavated with standard 6 inch diameter posthole diggers (see Plates 1 and 2). A total of 40 posthole tests were

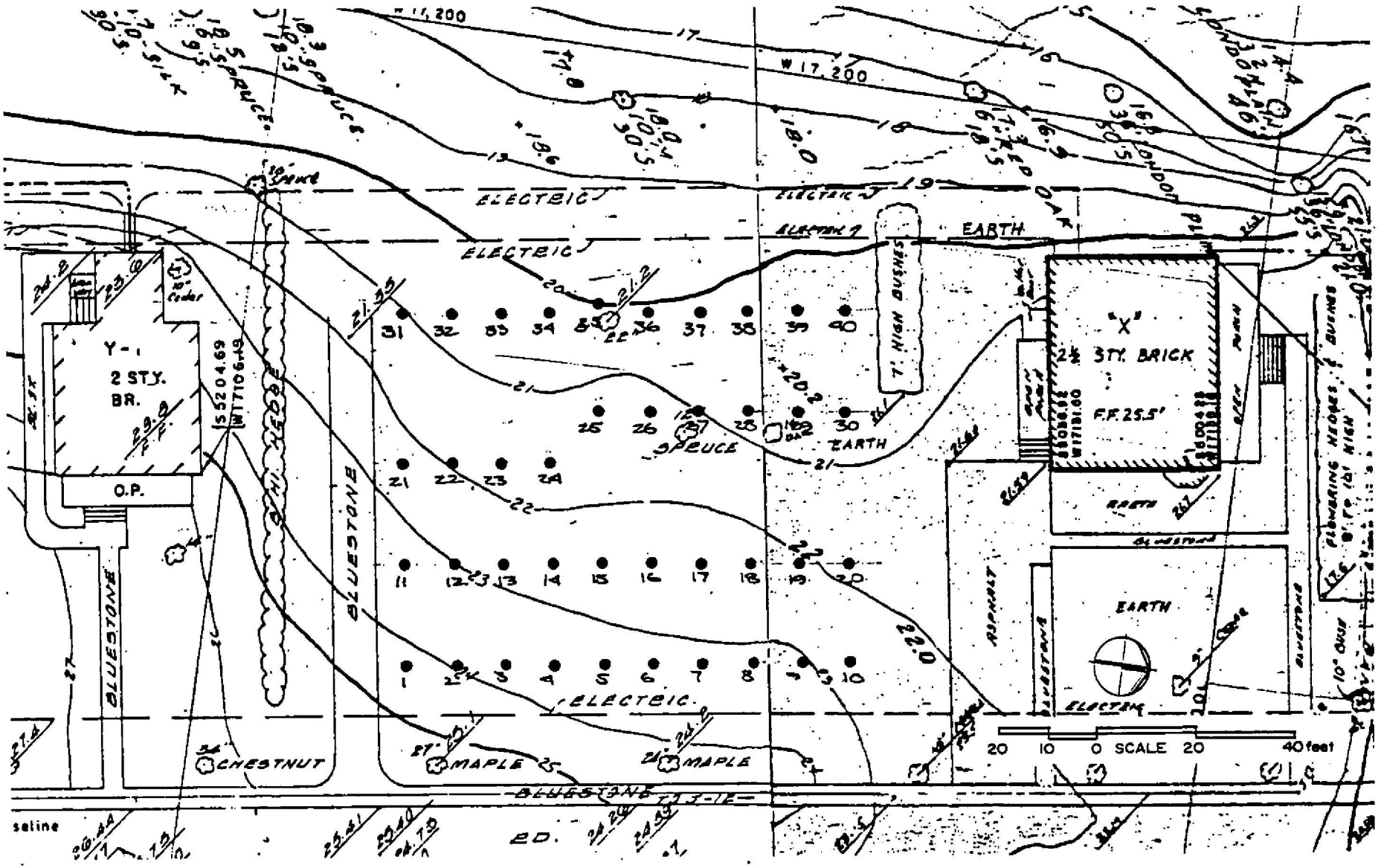

Figure 2 Locations of post-hole tests in the proposed Rose Garden.

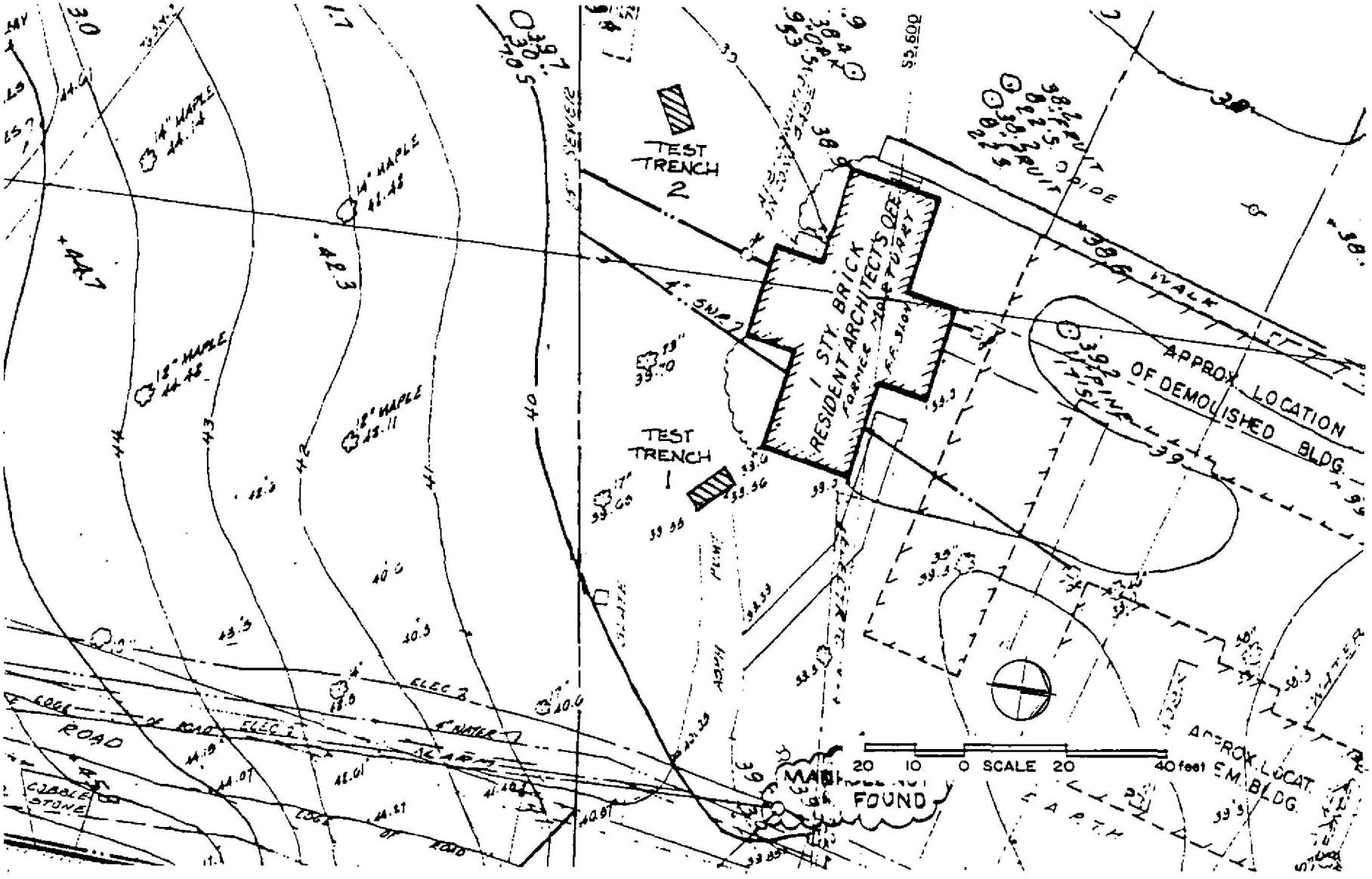

Figure 3 Locations of test trenches in the proposed Lions Garden.

completed. See Figure 2 for the locations of the post-hole tests in the proposed Rose Garden.

The Phase 1B archaeological field testing of the proposed Lions Garden at the Staten Island Botanical Gardens took place from the 10th through the 13th of July 1989. Two trenches were excavated in an attempt to locate remains from the Tailor's Shop and Employees Quarters which once stood on this location. The western trench was three feet by seven feet and the eastern trench three feet by eight feet. The western trench was located to cross the line of the western wall of the Tailor's Shop as well as the porch or veranda that provided the western entry to this structure. The eastern trench was located just to the east of the Morgue adjacent to a dumpster in an attempt to cross part of the northern wall of the Tailor's Shop and Employees Quarters (see Plates 3 and 4). See Figure 3 for the location of the trenches excavated within the proposed Lions Garden.

All stratigraphic information was recorded on standard pre-printed forms. This included the soil texture and inclusions, Munsell color readings, thickness of deposits, etc. See Appendix 2 for copies of the completed forms used and Appendix 3 for a description of the recording system. All soils recovered during posthole testing and trenching were screened through 1/4 inch mesh for the recovery of artifacts. The posthole tests and trenches were located horizontally using triangulation techniques from the corners of adjacent standing structures.

ARTIFACT PROCESSING, ANALYSIS AND INVENTORY

Subsequent to all fieldwork, all recovered materials were washed, marked, stabilized, and catalogued in the Greenhouse laboratory. The majority of artifacts were washed in room temperature tap water with added ORVUS paste (modified sodium lauryl sulfate), which is a non-ionic detergent. Harsh detergents leave an alkali residue if not completely rinsed away, which will chemically attack certain artifacts (the overglazed decoration on porcelain, for instance). ORVUS is a mild and free-rinsing surface active agent with a low pH of 6.3. Metal artifacts were systematically dewatered by submersion in acetone immediately after rinsing. Bones recovered were usually dry brushed, unless they were recovered from a wet context. Other cleaning techniques were performed when necessary by the Laboratory Director. Lithic materials for analysis were additionally cleaned using an ultra-sonic cleaner. This insured undamaged, clean edges to facilitate microscopic analysis. The drying procedure was dependent upon the condition and material class of the artifact. The standard procedure employed was slow air drying on screens in the laboratory processing area.

All recovered materials were then catalogued according to the National Park Service Cultural Material Data Base taxonomy for artifacts (see Appendix 1). All historic artifacts were coded as to group, class, and material. All diagnostic historic artifacts such as glass and ceramics were dated based on the stylistic and technical criteria according to the TPQ (terminus post quem, or the beginning date of manufacture). The TPQ

provided a time frame for establishing the initial date after which the deposit had to have been laid down. The prehistoric artifacts recovered consist of lithic materials, such as flakes and fire-cracked rock, as well as ceramics. During tabulation, the National Park Service code system was also employed to the group, class and material level.

Subsequent to cataloging, all artifacts were then computer inventoried on the micro-computer data base system, which provided sorted catalogues with totals and dates for each excavated group of artifacts by units of stratigraphic association. The final inventory is reproduced on paper and appears as Appendix 1, and is also stored as an ASCII file readable on IBM compatible hardware and other software programs.

Artifact Analysis

Forty postholes were excavated during the Phase 1B testing at Staten Island Botanical Gardens, Rose Garden project area, all of which produced cultural material. Nine hundred and fifty-four artifacts were recovered, of which one was possibly prehistoric. The historic finds date to the eighteenth through twentieth centuries and most likely represent occupation related debris.

The Staten Island Botanical Garden Rose Garden project is surrounded by eight documented prehistoric sites within a two mile radius, rendering the potential for finding evidence of prehistoric occupation high (Roberts 1989). Only one artifact was found, a flake, which is debris that comes from chipping stone to form a tool. This chert flake was found (see Plate 5) in association with an early nineteenth century ceramic sherd, as well as coal and glass in context 30.02.

The historic cultural material recovered consisted of household and architectural remains. The amount of coal fragments found was 232 or 740.85 grams, with the largest concentrations being found in post hole tests 4 (14 fragments, 93.90 grams), 21 (19 fragments, 144.07 grams) and 22 (9 fragments, 58.72 grams). Coal was not present in five of the forty post holes, which were located in the last transects, the west section of the project area. Ceramics made up the second largest group, a total of 181 sherds. The transect farthest to the west contains the most ceramic sherds of which post holes 34 and 35 had the highest counts. Post holes 10, 12, 20, and 28 had no ceramic sherds. The third largest artifact group was bone, 169 fragments or 349.02 grams. Tests 31, 34, 35, 36, 37, and 39, found in the furthest transect, all contained bone (see Plate 7). The rest of the artifacts were comprised of a decorated tobacco pipe fragment, glassware and bottle fragments, nails, brick, wire, unidentified metal, worked wood cement/mortar, slag/clinker, shell, quartz, sandstone and styrofoam.

The one hundred and eighty ceramic sherds included: buff earthenware, red earthenware, creamware, pearlware, whiteware, ironstone, porcelain, kitchenware, and tile. The sherd with the earliest TPQ was one of white salt-glaze stoneware (TPQ 1720, Huey 1984) which was discovered in post hole 35, level 2, the last transect to the west. Six sherds of creamware (TPQ 1762, South 1972, Noel Hume 1976) were found, each transect being

represented. See Plate 9 for one example of creamware recovered. The single largest diagnostic group was whiteware, with TPQ dates of 1820 (South 1972, Noel Hume 1976), 1830 (Lofstrom 1976 Price 1979), and 1844 (Lofstrom et al 1976). The ninety whiteware sherds were found scattered throughout the project area, almost in every post hole test.

The glass fragments recovered at Staten Island Botanical Gardens consist of: clear, amber, blue tint, green tint, green, and dark green bottle glass. Also found were clear glass containers, clear glass rims and window glass. Context 11.03 had a pale blue tinted container base with a diagonal seam (see Plate 6) which is a characteristic of a two-piece mold dating between 1750 and 1880 (Jones 1985:26-27). Unfortunately the rest of the glass fragments were too small or lacking in diagnostic marks to attribute any TPQ dates.

A white pipe stem fragment decorated with leaves and three parallel lines (see Plate 8) was recovered from context 26.04. It is a Dutch pipe produced by Jan Prince and Company ca. 1835-1881 (Alexander 1983:211, Figure IV D).

Architectural remains were scattered throughout the project area. Brick, nail and cement/mortar constituted these remains of which none could be assigned a manufacturing date.

Even though there exist eight documented prehistoric sites within a two mile radius of Staten Island Botanical Gardens, no significant prehistoric artifacts were discovered nor were any cultural features identified in the Phase 1B fieldwork. The only possible prehistoric artifact, a chert flake, is insignificant due to its being found in a disturbed context associated with nineteenth-century remains.

The historic artifacts numbered nine hundred and fifty-three. Possibly due to the testing methodology, no obvious overall horizontal patterns exist in the project area and the deposition sequence varies from transect to transect. The first transect is found on the eastern section of the site and consists of post holes 1-10. Post hole test #4 is statistically high in the amount of artifacts found as well as ceramic sherds and bone fragments. The majority of sherds from this transect were found in levels 2 and 3. Their ceramic TPQ ranges from 1820 to 1840. In post holes 11-20, the second transect, most of the ceramics were found in the second level. However, post hole 13, which is statistically high, contained ceramics as far down as level 7. This is the deepest that any ceramics were recovered. The ceramic TPQ for this transect ranges from 1813 to 1844. Ceramics are found throughout levels 1 and 5 in post holes 21-30 in transect 3. Statistically high ceramic counts were found in 21 and 26. Bone counts were also statistically high in post hole 21. The ceramic TPQ for post holes 21-30 ranged from 1813 to 1844. The last transect, post holes 31-40, was considerably high in butchered bone fragments. Six of the ten tests contained bone. Postholes 34 and 35 had large ceramic sherd counts, of which post hole 35 contained a saltglaze stoneware sherd, the earliest ceramic artifact. All of the ceramics were

found in levels 1 and 2. The ceramic TPQs for postholes in transect 4 ranged from 1820 to 1830.

Overall three general categories of artifacts were identified in the Rose Garden collection. Domestic debris included ceramics, glass containers, and bone fragments. Architectural remains consisted of brick, mortar, building stone fragments, window glass and nails. Coal, cinders and slag make up the third and final group. These items could have been produced as by-products of industrial processes, but in this case are more likely to have been deposited as a result of heating the adjacent structures with coal furnaces.

The Phase 1B testing of the Lions Garden project area consisted of excavating two rectangular trenches, although the first trench was recorded in two parts as Trenches 1 and 3. Both trenches (including both parts of the first trench) contained artifacts. A total of 387 artifacts were recovered, all of which date to the historic period.

The artifacts recovered at the Lions Garden fall into three general categories: domestic debris, architectural debris and coal/slag. The first category includes ceramics, container glass and clay tobacco pipes. The TPQ dates range from 1813 for ironstone through 1820 for whiteware to 1850 for a tobacco pipestem made by Peter Dorne in Holland (Alexander 1983:210, Figure A). The second category consists of brick, mortar, nails, plaster, wood, window glass and an iron hinge. The only TPQ date for this groups is 1834 for plate glass. The final category is coal and slag. This could have resulted from an industrial process but is more likely the result of heating the adjacent buildings with coal furnaces. All three categories were recovered from both trenches.

CONCLUSIONS AND RECOMMENDATIONS

Rose Garden

This final report documents the procedures and results of the Phase 1B testing of the Rose Garden, Staten Island Botanical Gardens, New York. Based on this objective ground testing, it can now be concluded that no potentially significant prehistoric or historic archaeological resources are present within the boundaries of the Rose Garden area. We can now confidently state that additional testing is not necessary and no Phase II or Phase II work is recommended.

Lions Garden

Phase 1B was completed at the proposed Lions Garden within the Staten Island Botanical Garden, New York. This location was not considered archaeologically sensitive, so this testing was conducted to answer questions regarding possible survival of foundations from Tailor's Shop and Employees' Quarters. The foundation was located on the western side of this structure, where several courses of stone and mortar were found to remain in situ as shown in Plate 7. Along the northern side of this structure a robber trench was found to mark the line of the north wall. All of the stones and mortar had been removed and the trench backfilled

with asphalt as shown in Plate 3. We have now satisfactorily answered the questions and see no need to conducted any further testing within the Lions Garden project area. No Phase II or Phase III work is recommended.

Plate 1 Post-hole testing in progress on the eastern side of the proposed Rose Garden, looking north.

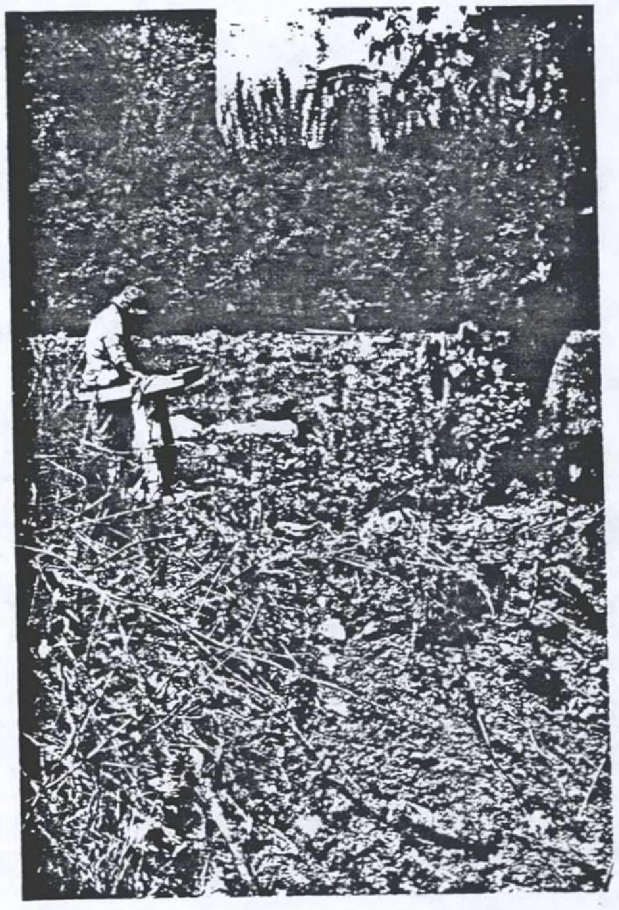

Plate 2 Soil from post-hole testing at the proposed Rose Garden being screened for artifacts, looking north.

Plate 3 . Trenches 1 and 3 at the proposed Lions Garden looking west. Note robber trench has been backfilled with asphalt.

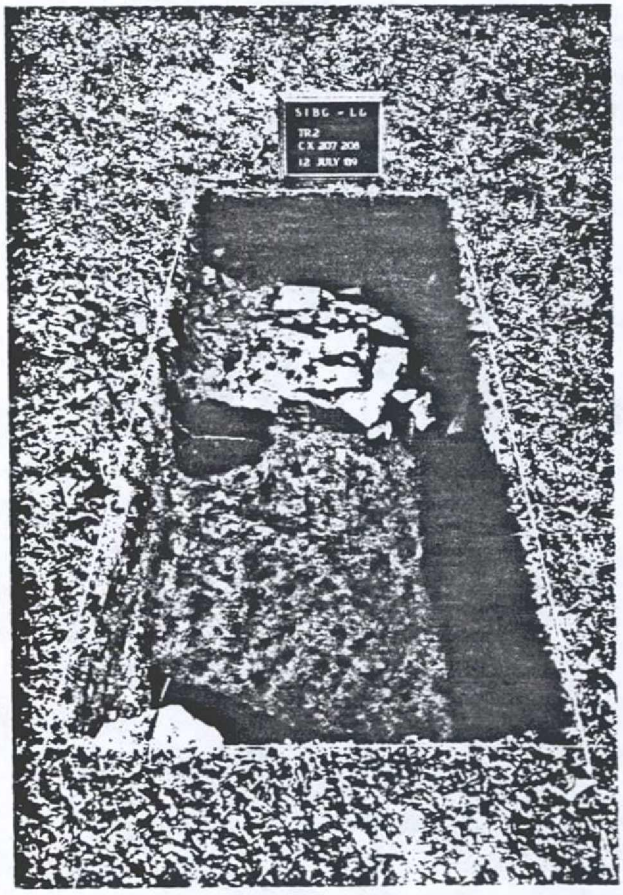

Plate 4 Trench 2 at the proposed Lions Garden looking northeast. Note wall foundation.

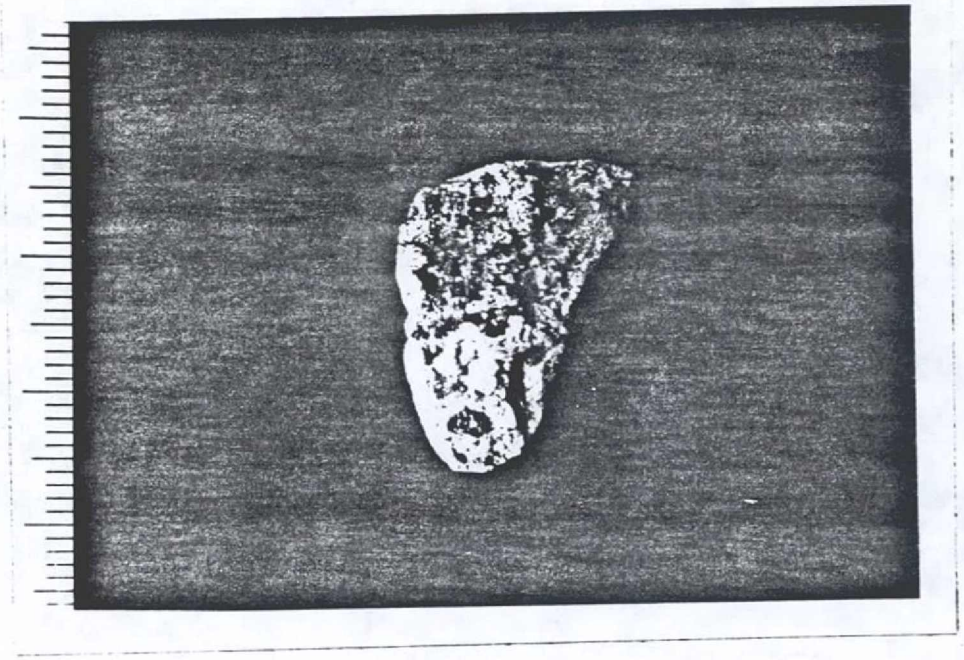

Plate 5 Context 30.02, Rose Garden. Probable chert flake.

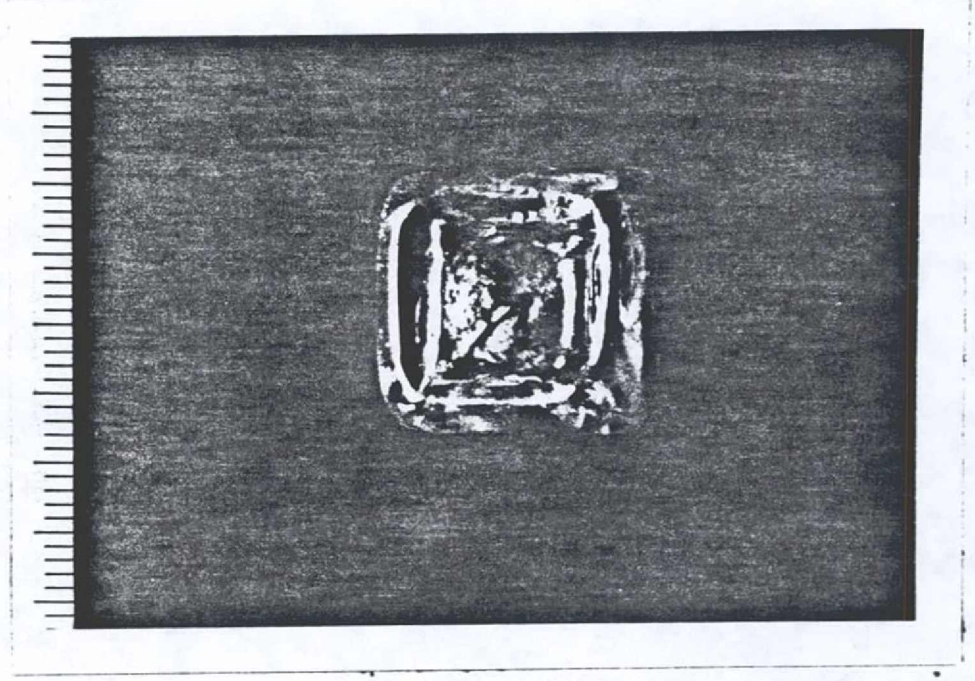

Plate 6 Context 11.03, Rose Garden. Base to glass medicine bottle, mold made.

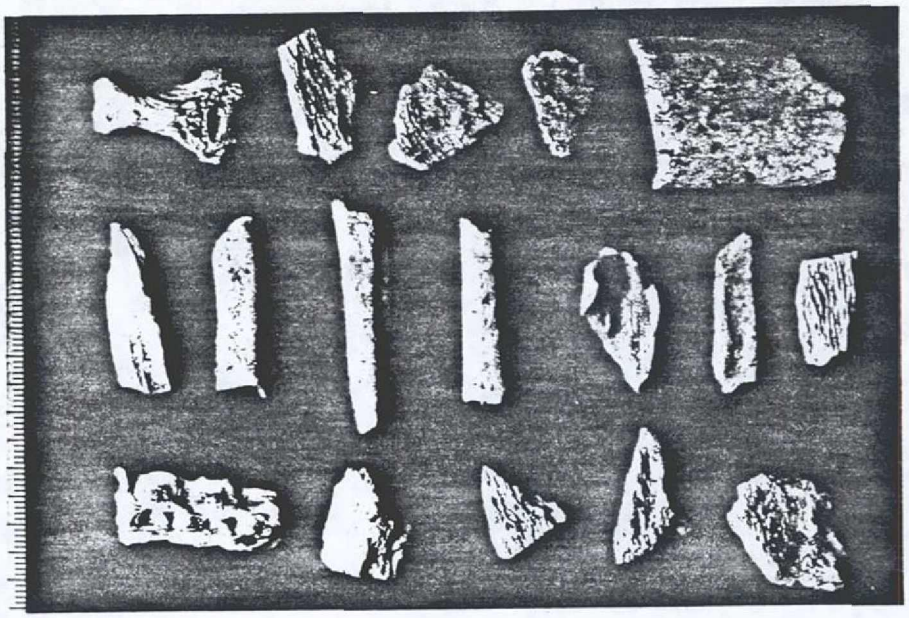

Plate 7 Context 21.02, Rose Garden. Group of bones recovered.

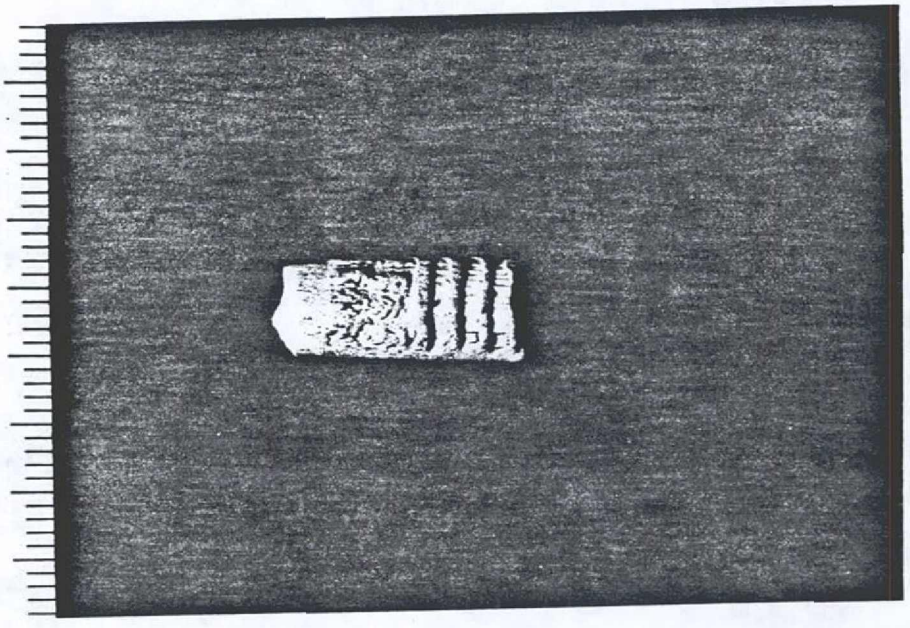

Plate 8 Context 26.04, Rose Garden. Decorated white clay pipestem manufactured by Jan Prince and Company of Holland, TPQ 1835 (Alexander 1983:211, Figure IVD).

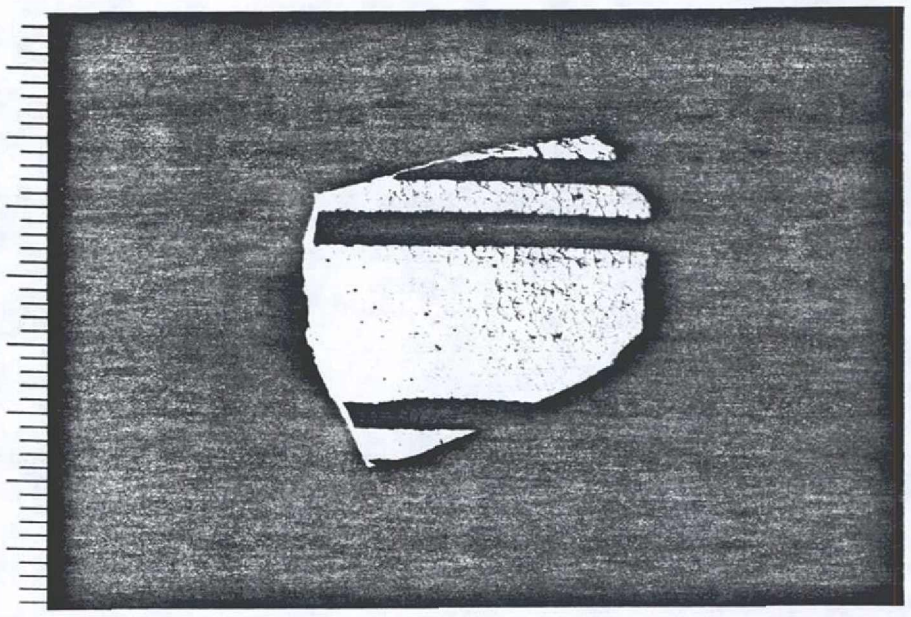

Plate 9 Context 35.02, Rose Garden. Body sherd of annular creamware, TPQ 1780 (South 1972; Noel Hume 1976).

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ADDENDUM

Discussion of Methodology Employed in Field Testing:

Two different techniques were used for the field testing of the two proposed new gardens. The testing of the Rose Garden utilized a series of post-hole tests. These were excavated using standard 0.5 foot diameter post-hole diggers, and were arranged on a series of paralell transects. This method was not the choice of the Principal Investigator, who had recommended a grid pattern of shovel tests 1.5 feet in diameter. Regardless of the size of the holes excavated, a series of tests on paralell transects was considered the best method of testing for the potential presence of both prehistoric and historic remains. It was necessary to cover the majority of the location proposed for the Rose Garden, and a pattern of shovel or post-hole tests can provide a reasonably easy presence/absence assessment at each chosen point. Two other archaeologists were asked by Marcha Johnson of NYC Parks and Recreation to provide peer review comments on the testing proposal. It was in these comments that the suggestion to use smaller diameter test holes was made. The initial suggestion was to use augers, but the post-hole diggers were considered to be a reasonable alternative and were readily available. Due to the decreased area of the post hole test compared to a shovel test, it was necessary to increase the number of tests from 9 to 38. Despite the increased number of tests it is still the opinion of the Principal Investigator that the larger size tests would have provided a better chance at identifying potentially significant deposits and recovering artifacts. Experiments with 3" and 6" diameter augers and 12" diameter shovel tests on known sites in California indicate that artifacts were recovered by the 3" and 6" augers only 50% of the time while the 12" shovel tests recovered artifacts 89% of the time (Chartkoff and Chartkoff 1980: App. A, 21).

The testing of the Lions Garden utilized two rectangular trenches. This technique was chosen because the purpose of the testing was to locate and expose the remains of the foundation of the former Tailors' Shop and Employees Quarters. These foundations were expected to be linear features, so long narrow trenches crossing the expected lines of the foundation at right angles were chosen. These rectangular trenches provided the best chance of intersecting the foundation and uncovering several feet of it in each location. It was not necessary to test the remainder of the proposed Lions Garden location since this area was not considered to be sensitive to the preservation of prehistoric or historic archaeological evidence excepting the aforementioned foundation.

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APPENDIX I
THE COMPLETE ARTIFACT INVENTORY

including

Table 1. The National Park Service Material Culture Data Base Coding Chart.

Table 2. Coded Examples from the Data Base.

Table 3. Data Base Codes for Ambiguous Items.

GROUPS AND CLASSES

01 KITCHEN GROUP
- 01 Dishes
- 02 Containers
- 03 Tableware
- 04 Kitchenware

02 BONE GROUP
- 01 Mammalia
- 02 Aves
- 03 Reptilia
- 04 Amphibia
- 05 Pisces

03 ARCHITECTURAL GROUP
- 01 Window Glass
- 02 Nails
- 03 Spikes
- 04 Door & Window Hardware
- 05 Other Structural Hardware
- 06 Construction Materials

04 FURNITURE GROUP
- 01 Hardware
- 02 Materials
- 03 Lighting Device
- 04 Decorative Furnishings

05 ARMS GROUP
- 01 Projectiles
- 02 Cartridge Case
- 03 Arms Accessories
- 04 Gun Parts

06 CLOTHING GROUP
- 01 Apparel
- 02 Ornamentation
- 03 Making and Repair
- 04 Fasteners

07 PERSONAL GROUP
- 01 Coins
- 02 Keys
- 03 Writing Paraphernalia
- 04 Grooming and Hygiene
- 05 Personal Ornamentation
- 06 Other Personal Items

08 KAOLIN TOBACCO PIPE GROUP
- 01 Kaolin Pipe Class

09 ACTIVITIES GROUP
- 01 Construction Tools
- 02 Farm Tools
- 03 Leisure Activities
- 04 Fishing Gear
- 05 Nonkaolin Pipe
- 06 Smoking Accessories
- 07 Pottery Class
- 08 Storage Items
- 09 Ethnofaunal Zoological
- 10 Stable and Barn
- 11 Miscellaneous Hardware
- 12 Specialized Activities
- 13 Military Objects
- 14 Housekeeping
- 15 Public Services
- 16 Ethnobotanical

10 PREHISTORIC GROUP
- 01 Weapons
- 02 Domestic
- 03 Stone Working
- 04 Wood Working
- 05 Digging Tools
- 06 Other Fabricating or Processing Tools
- 07 Other General Utility Tools
- 08 Ceremonial & Ornamental
- 09 Miscellaneous Artifacts

98 UNSPECIFIED GROUP

MATERIALS - COMMON LIST (classified)

INORGANIC MATERIALS

CERAMIC
- 003 earthenware
- 004 ironstone/granite/whiteware
- 001 porcelain
- 002 stoneware
- 134 undifferentiated ceramic

CLAY
- 047 clay
- 062 kaolin
- 079 red clay

CONSTRUCTION
- 069 brick
- 071 cement
- 070 mortar
- 072 plaster

GLASS
- 078 glass
- 013 glass, milk
- 112 slag and clinker

METALS
- 029 aluminum
- 035 chrome
- 026 cuprous metal
- 028 ferrous alloy
- 021 gold
- 034 lead
- 096 mercury
- 019 silver
- 032 steel
- 005 tin
- 136 undifferentiated metal

STONE
- 129 agate
- 075 asbestos
- 133 chalk
- 052 chert
- 046 gravel
- 109 jet
- 038 limestone
- 041 marble
- 049 mica
- 058 obsidian
- 057 ochre
- 068 precious stone
- 053 quartz
- 054 quartzite
- 039 sandstone
- 044 shale
- 040 slate
- 060 steatite
- 043 schist
- 126 undifferentiated stone
- 042 granite

ORGANIC MATERIALS

CELLULOSIC
- 115 bark
- 108 burlap
- 128 charcoal
- 092 cork
- 087 cotton
- 131 fiberboard/masonite
- 085 hemp
- 011 paper
- 006 wood
- 121 cellulose seeds/seed covering

CONSTRUCTION
- 093 asphalt
- 125 formica
- 101 linoleum
- 102 tar paper

WAX
- 076 wax

GUM/RESIN
- 010 rubber, elastic
- 009 rubber, hard

PETROCHEMICALS
- 073 carbon
- 095 coal
- 048 graphite
- 116 tar

PROTEIN
- 118 chitin (arthropod, exoskeleton)
- 106 felt
- 122 flesh
- 016 hair
- 117 keratin (horns/fingernail/claws)
- 015 leather
- 107 silk
- 090 sponge, natural
- 105 wool

COMBINATION MATERIALS
- 017 bone
- 132 ivory
- 067 pearl
- 089 shell

SYNTHETIC MATERIALS
- 103 celluloid
- 088 nylon
- 008 plastic
- 077 soap
- 091 sponge, synthetic
- 104 synthetic

TEXTILE
- 151 undifferentiated textile

Table 1: The National Park Service Material Culture Data Base Coding Chart

GROUPS AND CLASSES		SAMPLE ARTIFACTS
01	KITCHEN	
	01 Dishes	Historic fragments, plate, cup, salt cellar
	02 Containers	Bottle glass fragments
	03 Tableware	Eating Utensils
	04 Kitchenware	Cooking Utensils, pot, kettle
02	BONE GROUP	
	01 Mammalia	Mammal Bones
	02 Aves	Bird Bones
	03 Reptilia	Reptile Bones
	04 Amphibia	Amphibian Bones
	05 Pisces	Fish Bones
03	ARCHITECTURAL GROUP	
	01 Window Glass	Window pane glass
	02 Nails	Copper nails, iron nails
	03 Spikes	Railroad spikes
	04 Door & Window Hardware	Doorknob, door hinge
	05 Other Structural Hardware	Pipe, fireplace tiles
	06 Construction Materials	Brick, mortar, metal roofing
04	FURNITURE GROUP	
	01 Hardware	Handle, drawer pull, latch
	02 Materials	Stove parts, chair part, bed frame
	03 Lighting device	Candlestick, lamp base
	04 Decorative Furnishings	Flower pot, clock parts, vase
05	ARMS GROUP	
	01 Projectiles	Shot, bullets
	02 Cartridge Case	Cartridge
	03 Arm Accessories	Gun flints, bullet molds, powder horn
	04 Gun Parts	Pistol barrel, flint lock assembly
06	CLOTHING GROUP	
	01 Apparel	Hat, coat, scarves, glove, shoe
	02 Ornamentation	Beads, sequin, hatpin, feather
	03 Making & Repair	Thimble, straight pin, straight scissors
	04 Fasteners	Buttons, snaps, buckles, cuff links
07	PERSONAL GROUP	
	01 Coins	Silver coins, copper coins
	02 Keys	Door lock keys, padlock keys
	03 Writing Paraphernalia	Quill, fountain pen nib, graphite pencil
	04 Grooming & Hygiene	Hair brush, razor, mirror, tweezers
	05 Personal Ornamentation	Jewelry, ribbon, ornamental comb
	06 Other Personal Items	Pocket watch, key chain, pocket knife
09	KAOLIN PIPE GROUP	
	01 Kaolin Pipe Class	Kaolin pipe fragments

GROUPS AND CLASSES (cont'd)		
09	ACTIVITIES GROUP	
	01 Construction Tools	Axe head, drill bit, saw, paint brush
	02 Farm Tools	Hoe, rake, plow blade
	03 Leisure Activities	Marbles, jew's harp, doll parts
	04 Fishing Gear	Fish hooks, sinkers, crab trap
	05 Nonkaolin Pipe	Corncob pipe
	06 Smoking Accessories	Snuff tin, tobacco tin, pipe cleaner
	07 Pottery Class	(Indian) water jar, effigy pot
	08 Storage Item	Crock, barrel staves, sacks
	09 Ethnofaunal Zoological	Oyster shells, crab shells
	10 Stable and Barn	Stirrup, horse shoe, rein, harness belt
	11 Miscellaneous Hardware	Rope, bolts, nuts, washers, chain
	12 Specialized Activities	Button blanks, metallurgic debris, saggers
	13 Military Objects	Insignia, bayonets
	14 Housekeeping	Broom, coat hanger, washboard
	15 Public Services	Sewer pipe, water pipe
	16 Ethnobotanical	
10	PREHISTORIC GROUP	
	01 Weapons	Projectile point, atlatl hook
	02 Domestic	Vessel, mortar, pestle
	03 Stone Working	Hammerstone, baton, flake, core
	04 Wood Working	Celt, grooved axe
	05 Digging Tools	Hoe
	06 Other Fabricating or Processing Tools	Drill, chisel, needle
	07 Other General Utility Tools	Knife, prismatic blade, chopper
	08 Ceremonial and Ornamental	Sheet, gorget, bead
	09 Miscellaneous Artifacts	Function unknown

Table 2: Coded Examples from the National Park Service Material Culture Data Base

THE ITEMS LISTED BELOW MAY BE AMBIGUOUS OR HARD TO PLACE IN A TAXONOMIC CATEGORY, BUT AS A CONVENTION, FOR INVENTORY PURPOSES, WILL BE CODED AS FOLLOWS:

Unident Wood Frags	98	00	006
Construction Wood, Wooden Pegs, Wood Planks	03	06	006
Twigs, Branches	09	16	006
Burned Wood (Partial)	Code as wood (above) and put "burnt wood" in the comments section.		
Charcoal & all small frags of completely burnt wood	Code as charcoal		
Coal	98	00	095
Slag, burned coal, vitrified metalworking or manufacturing by-products	98	00	112
Puntiles	03	06	003
Delft fireplace tiles, wall skirting, etc.	04	04	003
Porcelain bathroom tiles, other bathroom furniture (tub, toilet, etc)	03	05	001
Chamber Pot	04	02	( )
Flower Pot	04	04	003
Teeth	02	( )	132
Fish scales	09	09	118
Coral	98	00	119
Eggshell	09	09	119
Seeds, Seed Covering	09	16	121
Schist (construction)	03	06	043
Schist (unident)	98	00	043
Red Brick	03	06	169
Yellow Brick	03	06	155
Linoleum	03	06	101
Metal Hardware (probably construction)	03	06	( )
Furniture Hardware	04	01	( )
Misc. hardware (other and unident), screws, car parts	09	11	( )
Leather Shoe Parts	06	01	015
Unident Leather scraps	98	00	015
Leather Personal Items	07	( )	015

Table 3: National Park Service Material Culture Data Base Codes for Ambiguous Items

INVENTORY
PART 1
STATEN ISLAND BOTANICAL GARDENS
THE ROSE GARDEN

Greenhouse Consultants Inc.

Inventory for Staten Island Botanical Garden
Rose Garden

Context	Gp	Cl	Mat	Identity	Count	Weight	Comment	Reference	TPQ	rec#
1.01	03	06	070	MORTAR OR CEMENT	3	0.00				179
1.01	98	00	053	QUARTZ	1	0.00				180
1.01	98	00	095	COAL	2	1.40				181
1.02	03	02	028	NAIL	1	0.00	SCREW	PATENT	1798	174
1.02	03	06	069	BRICK	1	0.00				173
1.02	03	06	070	MORTAR OR CEMENT	1	0.00				170
1.02	98	00	003	RED EARTHENWARE	1	0.00				172
1.02	98	00	089	SHELL	3	8.50				169
1.02	98	00	095	COAL	4	1.40				171
2.01	03	06	070	MORTAR?	2	0.00				47
2.01	98	00	095	COAL	2	7.80				46
2.02	98	00	089	COAL	2	1.20				145
2.03	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	65
2.03	01	02	078	GLASS BOTTLE	1	0.00	AMBER			66
2.03	98	00	028	METAL	2	0.00	CORRODED			68
2.03	98	00	095	COAL	7	16.60				67
2.03	98	00	112	SLAG & CLINKER	3	7.20				64
3.01	03	04	006	WORKED WOOD	1	0.00	PAINTED GREEN			5
3.02	01	01	004	IRONSTONE?	1	0.00		SOUTH:1972 NOEL HUME:1976	1813	165
3.02	01	01	104	STYROFOAM	1	0.00				162
3.02	98	00	095	COAL	6	7.90				163
3.02	98	00	112	CLINKER	2	1.00				164
3.03	01	01	003	BUFF EARTHENWARE	2	0.00	YELLOW GLAZE, WHITE GLAZE BLUE BAND MEND			155
3.03	01	01	004	WHITEWARE	2	0.00		SOUTH:1972 NOEL HUME:1976	1820	157
3.03	03	06	069	BRICK	1	0.00				159
3.03	08	01	062	PIPE	1	0.00	BOWL			156
3.03	98	00	095	COAL	1	6.00				158
4.01	98	00	095	COAL	3	2.30				3
4.02	01	01	004	WHITEWARE	3	0.00	ANNULAR MENDS	PRICE:1979	1840	71
4.02	01	02	078	GLASS CONTAINER	1	0.00				69
4.02	03	01	078	WINDOW GLASS	3	0.00				70
4.02	03	06	069	BRICK	3	0.00				72
4.02	03	06	070	MORTAR	1	0.00				73
4.02	98	00	095	COAL	6	30.00				74
4.03	01	01	001	PORCELAIN	1	0.00	BASE UNDERGLAZE BLUE PAINTED			75
4.03	01	01	003	EARTHENWARE	1	0.00	HANDLE YELLOW GLAZED			76
4.03	01	01	004	WHITEWARE	1	0.00	BASE SPONGE DECORATED?	LOFSTROM:1976	1840	84
4.03	01	04	003	KITCHENWARE	6	0.00	DARK BROWN GLAZE ON ONE SIDE			77
4.03	01	04	003	KITCHENWARE	4	0.00	DARK BROWN GLAZE ON ONE SIDE			87
4.03	03	01	078	WINDOW GLASS	3	0.00				79
4.03	03	01	078	WINDOW GLASS	5	0.00				83
4.03	03	01	078	WINDOW GLASS	1	0.00				96
4.03	03	06	039	FLAGSTONE? SANDSTONE?	1	0.00				4
4.03	03	06	069	BRICK	9	0.00				7
4.03	03	06	069	BRICK?	1	0.00				80
4.03	03	06	069	BRICK	2	0.00				81
4.03	03	06	069	BRICK	1	0.00				95
4.03	09	11	028	METAL	2	0.00	VERY CORRODED			86
4.03	98	00	017	BONE	21	87.00				97

Greenhouse Consultants Inc.

Inventory for Staten Island Botanical Garden
Rose Garden

Context	Gp	Cl	Mat	Identity	Count	Weight	Comment	Reference	TPQ	rec#
4.03	98	00	089	SHELL	1	2.40				78
4.03	98	00	095	COAL	5	61.60				94
4.03	98	00	112	SLAG & CLINKER	2	3.30				85
4.03	98	00	126	STONE	3	0.00				82
5.02	01	01	078	GLASS RIM	1	0.00	TEXTURED SURFACE			48
5.02	03	06	069	BRICK	1	0.00	WITH LAYER OF PLASTER			51
5.02	98	00	095	COAL	2	1.20				49
5.02	98	00	112	SLAG	1	1.10				50
5.03	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	11
5.03	01	01	078	GLASS RIM	2	0.00	TEXTURED SURFACE			9
5.03	01	01	078	GLASS	2	0.00	TEXTURED SURFACE			12
5.03	03	01	078	WINDOW GLASS	2	0.00				10
5.03	98	00	095	COAL	5	7.50				8
5.03	98	00	112	SLAG	1	21.90				13
5.04	01	02	078	GLASS CONTAINER	1	0.00				334
5.04	98	00	095	COAL	2	8.60				335
5.04	98	00	112	SLAG & CLINKER	5	129.70				336
6.01	03	01	078	WINDOW GLASS	1	0.00				57
6.01	98	00	089	SHELL	1	0.40				58
6.01	98	00	089	COAL	2	0.90				59
6.01	98	00	112	SLAG	1	1.50				60
6.02	01	01	004	WHITEWARE	1	0.00	BASE	SOUTH:1972 NOEL HUME:1976	1820	32
6.02	03	01	078	WINDOW GLASS	1	0.00				34
6.02	03	06	069	BRICK	1	0.00				33
6.02	98	00	089	SHELL	1	0.90				36
6.02	98	00	095	COAL	3	3.00				35
6.04	98	00	017	BONE	4	2.20				38
6.04	98	00	095	COAL	6	0.00				39
6.04	98	00	112	SLAG & CLINKER	3	10.04				37
7.01	01	01	004	IRONSTONE	1	0.00	RIM	SOUTH:1972 NOEL HUME:1976	1813	62
7.01	98	00	089	COAL	2	1.90				61
7.01	98	00	112	CLINKER	1	8.80				63
7.02	01	01	003	PEARLWARE	1	0.00	GREEN EDGED			16
7.02	01	01	004	WHITEWARE	1	0.00	TRANSFER PRINTED BLACK	LOFSTROM:1976 pRICE:1979	1830	14
7.02	01	01	078	GLASS	1	0.00	TEXTURED SURFACE			15
7.02	01	02	078	GLASS CONTAINER	3	0.00				18
7.02	08	01	062	KAOLIN PIPE	1	0.00	STEM			17
7.02	98	00	095	COAL	6	6.20				19
7.04	03	01	078	WINDOW GLASS	1	0.00				55
7.04	03	06	004	TILE	1	0.00	IRONSTONE?	SOUTH:1972 NOEL HUME:1976	1813	56
7.04	03	06	069	BRICK	1	0.00				54
7.04	98	00	017	BONE	12	5.60				53
7.04	98	00	095	COAL	2	4.90				52
7.04	98	00	112	SLAG AND CLINKER	5	75.80				6
8.01	01	01	004	GLASS BOTTLE	1	0.00				42
8.01	03	06	069	BRICK	1	0.00				43
8.01	98	00	095	COAL	6	6.40				40
[illegible]	98	00	112	SLAG & CLINKER	2	1.30				41
8.02	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	154

Greenhouse Consultants Inc.

Inventory for Staten Island Botanical Garden
Rose Garden

Context	Gp	Cl	Mat	Identity	Count	Weight	Comment	Reference	TPQ	rec
8.02	03	01	078	WINDOW GLASS	1	0.00				15
8.02	03	06	069	BRICK	1	0.00				15
8.02	98	00	095	COAL	2	0.00				15
9.01	01	02	078	GLASS BOTTLE	1	0.00	AMBER			3
9.01	03	01	078	WINDOW GLASS	1	0.00				3
9.01	98	00	095	COAL	8	14.30				2
9.01	98	00	112	SLAG & CLINKER	11	17.70				2
9.03	01	01	003	CREAMWARE?	1	0.00		SOUTH:1972 NOEL HUME:1976	1762	20
9.03	01	01	004	WHITEWARE	1	0.00	BLUE TRANSFER PRINT	LOFSTROM:1976 PRICE:1979	1830	21
9.03	01	01	004	WHITEWARE	2	0.00	RIM	SOUTH:1972 NOEL HUME:1976	1820	21
9.03	03	01	078	WINDOW GLASS	1	0.00				20
9.03	08	01	062	PIPE	1	0.00	BOWL			20
9.03	98	00	095	COAL	3	1.00				20
10.02	01	02	078	GLASS BOTTLE	1	0.00	GREEN			2
10.02	01	02	078	GLASS BOTTLE	1	0.00				2
10.02	98	00	095	COAL	13	8.90				2
10.02	98	00	126	STONE	2	0.00				2
11.02	98	00	089	SHELL	1	0.40				4
11.02	98	00	095	COAL	1	0.70				4
11.03	01	01	003	BUFF EARTHENWARE	1	0.00	YELLOW GLAZE WHITE BANDS ON ONE SIDE			11
11.03	01	01	003	BUFF EARTHENWARE	2	0.00	YELLOW GLAZE			11
11.03	01	01	004	WHITEWARE	1	0.00	RIM FLOW BLUE TRANSFER PRINT	LOFSTROM:1976	1844	10
11.03	01	01	004	WHITEWARE	2	0.00		SOUTH:1972 NOEL HUME:1976	1820	11
11.03	01	02	078	GLASS BOTTLE	5	0.00	BLUE TINT LETTER PANEL			11
11.03	01	02	078	GLASS BOTTLE	1	0.00	BLUE TINT			11
11.03	01	02	078	GLASS BOTTLE	1	0.00	BASE DRUGSTORE TYPE BLUE TINT			20
11.03	03	01	078	WINDOW GLASS	1	0.00				11
11.03	03	06	069	BRICK	1	0.00				11
11.03	03	06	070	MORTAR	1	0.00				11
11.03	09	11	028	MISCELLANEOUS HARDWARE	2	0.00				11
11.03	98	00	095	COAL	8	4.20				11
12.02	98	00	095	COAL	6	7.20				
12.04	03	01	078	WINDOW GLASS	1	0.00				40
12.04	98	00	017	BONE	3	8.00				40
12.04	98	00	028	METAL	2	0.00				40
12.04	98	00	095	COAL	3	8.00				41
12.04	98	00	112	CLINKER	2	5.60				40
13.02	01	02	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	9
13.02	01	02	078	GLASS CONTAINER	1	0.00				8
13.02	98	00	028	METAL	1	0.00	CORRODED			9
13.02	98	00	095	COAL	1	1.40				8
13.04	98	00	095	COAL	2	2.20				20
13.06	01	01	001	PORCELAIN	1	0.00	BASE?			24
13.06	01	01	003	CREAMWARE?	1	0.00	RIM	SOUTH:1972 NOEL HUME:1976	1762	23
13.06	01	01	003	CREAMWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1762	23
13.06	01	01	004	WHITEWARE	1	0.00				23
13.06	01	01	004	IRONSTONE	1	0.00		SOUTH:1972 NOEL HUME:1976	1813	24
13.06	01	01	004	WHITEWARE	1	0.00	TRANSFER PRINT BLUE	LOFSTROM:1976 PRICE:1979	1830	24
13.06	03	01	078	WINDOW GLASS	1	0.00				24

Greenhouse Consultants Inc.

Inventory for Staten Island Botanical Garden
Rose Garden

Context	Gp	Cl	Mat	Identity	Count	Weight	Comment	Reference	TPQ	rec
13.06	03	02	028	NAIL	1	0.00				235
13.06	98	00	095	COAL	2	2.10				237
13.07	01	01	003	RED EARTHENWARE	1	0.00	BROWN GLAZE			186
13.07	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	189
13.07	01	02	078	GLASS CONTAINER	1	0.00				190
13.08	98	00	089	SHELL	2	4.10				234
14.01	01	02	078	GLASS CONTAINER	1	0.00				196
14.01	98	00	095	COAL	4	8.60				198
14.01	98	00	112	SLAG & CLINKER	2	17.60				197
14.02	01	01	004	WHITEWARE	2	0.00		SOUTH:1972 NOEL HUME:1976	1820	244
14.02	03	06	069	BRICK	1	0.00				245
14.02	98	00	095	COAL	1	4.60				246
14.03	01	02	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	93
14.03	98	00	095	COAL	1	1.70				92
15.01	01	01	003	PEARLWARE?	1	0.00		SOUTH:1972 NOEL HUME:1976	1780	396
15.01	03	06	069	BRICK	1	0.00				397
15.01	98	00	089	SHELL	1	0.90				396
15.01	98	00	095	COAL	3	6.20				395
15.02	03	01	078	WINDOW GLASS	2	0.00				401
15.02	98	00	095	COAL	2	2.50				399
15.02	98	00	112	SLAG	1	1.20				400
16.02	01	01	003	BUFF EARTHENWARE	1	0.00	GREEN GLAZE			105
16.02	01	01	004	WHITEWARE	1	0.00	ANNULAR	PRICE:1979	1830	102
16.02	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	103
16.02	01	02	078	GLASS CONTAINER	1	0.00				101
16.02	01	02	078	GLASS BOTTLE	1	0.00	GREEN			104
16.02	03	01	078	WINDOW GLASS	6	0.00				99
16.02	03	06	069	BRICK	1	0.00				107
16.02	09	11	028	METAL WIRE	1	0.00				98
16.02	09	11	028	MISCELLANEOUS HARDWARE	1	0.00				106
16.02	98	00	095	COAL	8	5.70				108
16.02	98	00	112	CLINKER	1	0.80				100
17.02	01	01	004	IRONSTONE	2	0.00		SOUTH:1972 NOEL HUME:1976	1813	315
17.02	01	01	004	IRONSTONE	1	0.00	ANNULAR?	SOUTH:1972 NOEL HUME:1976	1813	316
17.02	01	02	078	GLASS CONTAINER	1	0.00				313
17.02	03	01	078	WINDOW GLASS	4	0.00				318
17.02	98	00	089	SHELL	1	3.60				314
17.02	98	00	095	COAL	4	3.80				317
17.03	01	02	078	GLASS CONTAINER	1	0.00				295
17.03	03	01	078	WINDOW GLASS	1	0.00				296
17.03	98	00	095	COAL	1	8.40				294
18.02	01	01	004	WHITEWARE	1	0.00	RIM FLOW BLUE TRANSFER PRINT	LOFSTROM:1976	1844	139
18.02	98	00	008	PLASTIC	3	0.00	MENDS			138
18.02	98	00	095	COAL	2	3.30				137
18.04	98	00	095	COAL	1	1.80				264
19.02	01	01	001	PORCELAIN	1	0.00				298
19.[illegible]	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	299
19.[illegible]	98	00	095	COAL	3	2.60				297
20.02	09	11	028	METAL	1	0.00	CORRODED			127

Greenhouse Consultants Inc.

Inventory for Staten Island Botanical Garden
Rose Garden

Context	Gp	Cl	Mat	Identity	Count	Weight	Comment	Reference	TPQ	rec
20.02	98	00	095	COAL	1	0.80				128
20.03	03	06	069	BRICK	1	0.00				130
20.03	98	00	095	COAL	7	12.20				135
21.01	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	369
21.01	01	02	078	GLASS CONTAINER	1	0.00				370
21.01	03	06	069	BRICK	1	0.00				371
21.01	98	00	095	COAL	2	9.40				367
21.01	98	00	095	SHELL	1	0.30				368
21.02	01	01	003	CREAMWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1762	442
21.02	01	01	004	IRONSTONE	6	0.00		SOUTH:1976 NOEL HUME:1976	1813	440
21.02	01	01	004	IRONSTONE	4	0.00	RIM BODY MENDS	SOUTH:1972 NOEL HUME:1976	1813	445
21.02	01	02	078	GLASS CONTAINER	1	0.00				120
21.02	01	02	078	GLASS BOTTLE	1	0.00	GREEN			121
21.02	01	02	078	GLASS BOTTLE	1	0.00	NECK GREEN MOLD BLOWN			122
21.02	03	05	003	EARTHENWARE TILE?	1	0.00				125
21.02	03	06	069	BRICK	2	0.00				129
21.02	98	00	017	BONE	24	20.02				212
21.02	98	00	017	BONE	13	68.20				443
21.02	98	00	028	METAL	2	0.00	CORRODED			441
21.02	98	00	095	COAL	9	30.07				126
21.02	98	00	095	COAL	5	66.40				444
21.02	98	00	112	SLAG & CLINKER	4	31.00				123
21.02	98	00	112	COAL	1	32.70				446
21.03	01	01	004	WHITEWARE	1	0.00	RIM	SOUTH:1972 NOEL HUME:1976	1820	372
21.03	98	00	095	COAL	2	5.50				373
22.01	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	161
22.01	98	00	112	SLAG & CLINKER	2	1.60				160
22.02	01	01	003	PEARLWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1780	422
22.02	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	423
22.02	98	00	017	BONE	1	0.20				424
22.02	98	00	095	COAL	3	40.02				420
22.02	98	00	112	SLAG & CLINKER	5	6.10				421
22.03	01	01	004	WHITEWARE	3	0.00				177
22.03	03	01	078	WINDOW GLASS	1	0.00				178
22.03	03	06	069	BRICK	1	0.00				176
22.03	98	00	095	COAL	3	12.90				175
22.04	98	00	017	BONE	1	0.80				167
22.04	98	00	095	COAL	3	5.80				166
22.04	98	00	112	SLAG & CLINKER	2	28.90				168
23.01	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	192
23.01	98	00	095	COAL	2	2.70				191
23.02	01	02	078	GLASS BOTTLE	1	0.00	GREEN			150
23.02	03	06	070	MORTAR?	1	0.00				148
23.02	08	01	062	PIPE	1	0.00	BOWL			149
23.02	98	00	095	COAL	4	15.70				146
23.02	98	00	112	SLAG & CLINKER	3	6.70				147
23.04	98	00	095	COAL	1	0.70				2
24.01	01	01	004	WHITEWARE	1	0.00	FLOW BLUE TRANSFER PRINT	LOFSTROM ET AL:1976	1844	27
24.02	01	01	078	GLASS	1	0.00	TEXTURED SURFACE			24

Greenhouse Consultants Inc.

Inventory for Staten Island Botanical Garden
Rose Garden

Context	Gp	Cl	Mat	Identity	Count	Weight	Comment	Reference	TPQ	rec#
24.02	98	00	095	COAL	3	1.50				26
24.02	98	00	112	SLAG & CLINKER	6	10.03				25
24.04	01	01	004	WHITEWARE	1	0.00	POLYCHROME UNDERGLAZE HANDPAINTED	PRICE:1979	1830	329
24.04	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	333
24.04	03	01	078	WINDOW GLASS	1	0.00				330
24.04	03	06	069	BRICK	1	0.00				328
24.04	98	00	028	METAL	3	0.00				326
24.04	98	00	089	SHELL	3	1.10				331
24.04	98	00	095	COAL	4	19.40				327
24.04	98	00	112	SLAG & CLINKER	2	2.20				332
24.05	01	01	004	WHITEWARE?	2	0.00		SOUTH:1972 NOEL HUME:1976	1820	427
24.05	01	01	004	WHITEWARE	1	0.00	RIM	SOUTH:1972 NOEL HUME:1976	1820	428
24.05	01	01	004	IRONSTONE	1	0.00	BASE	SOUTH:1972 NOEL HUME:1976	1813	430
24.05	03	06	069	BRICK	2	0.00				426
24.05	98	00	028	METAL	1	0.00				429
24.05	98	00	095	COAL	5	5.10				431
24.05	98	00	112	SLAG & CLINKER	4	41.70				425
25.01	01	02	078	GLASS CONTAINER	2	0.00				133
25.01	98	00	095	COAL	5	1.70				134
25.02	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	142
25.02	01	01	004	IRONSTONE?	1	0.00	BURNT	SOUTH:1972 NOEL HUME:1976	1813	144
25.02	03	06	069	BRICK	1	0.00				140
25.02	98	00	028	METAL	1	0.00	CORRODED			141
25.02	98	00	095	COAL	3	11.50				143
25.03	01	01	003	BUFF EARTHENWARE	1	0.00	CREAM OR TRANSPARENT GLAZE			130
25.03	03	06	069	BRICK	3	0.00				129
25.03	08	01	062	PIPE	1	0.00	STEM			131
25.03	98	00	095	COAL	3	17.00				132
26.01	03	01	078	WINDOW GLASS	1	0.00				194
26.01	98	00	095	COAL	1	1.80				195
26.01	98	00	126	STONE	1	0.00				193
26.02	03	01	078	WINDOW GLASS	1	0.00				218
26.02	98	00	028	METAL	2	0.00				219
26.02	98	00	095	COAL	1	2.60				217
26.03	03	01	078	WINDOW GLASS	1	0.00				213
26.03	98	00	095	COAL	2	3.60				214
26.04	01	01	003	BUFF EARTHENWARE	1	0.00	RIM YELLOW GLAZE			247
26.04	01	01	003	RED EARTHENWARE	1	0.00				251
26.04	01	01	003	BUFF EARTHENWARE	1	0.00	BASE YELLOW GLAZE			255
26.04	01	01	003	BUFF EARTHENWARE	2	0.00	YELLOW GLAZE			263
26.04	01	01	004	IRONSTONE	2	0.00	RIM	SOUTH:1972 NOEL HUME:1976	1813	252
26.04	01	01	004	IRONSTONE	4	0.00		SOUTH:1972 NOEL HUME:1976	1813	256
26.04	01	01	004	IRONSTONE	1	0.00	BASE	SOUTH:1972 NOEL HUME:1976	1813	259
26.04	01	01	078	GLASS	1	0.00				257
26.04	01	04	002	STONEWARE	1	0.00	RED GLAZE ON ONE SIDE			253
26.04	03	01	078	WINDOW GLASS	1	0.00				260
26.04	03	02	028	NAIL	1	0.00	CORRODED			254
26.04	03	02	028	NAIL	1	0.00	CONCRETION OF COAL AND BONE			262
26.04	03	06	069	BRICK	1	0.00				249

Greenhouse Consultants Inc.

Inventory for Staten Island Botanical Garden
Rose Garden

Context	Gp	Cl	Mat	Identity	Count	Weight	Comment	Reference	TPQ	rec
26.04	03	06	070	MORTAR	1	0.00				25
26.04	08	01	062	PIPE	1	0.00	STEM DECORATED			19
26.04	98	00	017	BONE	17	9.20				25
26.04	98	00	095	COAL	1	6.80				24
26.04	98	00	112	SLAG	1	3.90				26
27.01	01	01	126	CERAMIC?	1	0.00	BURNT			34
27.01	01	02	078	GLASS BOTTLE	1	0.00				34
27.01	01	02	078	GLASS BOTTLE	1	0.00	AMBER			34
27.01	01	02	078	GLASS BOTTLE	1	0.00	GREEN TINT			34
27.01	03	06	069	BRICK	2	0.00				34
27.01	98	00	028	METAL	1	0.00	CORRODED			34
27.01	98	00	095	COAL	1	0.90				34
27.02	01	02	078	GLASS BOTTLE	1	0.00	BLUE TINT EMBOSSED			21
27.02	98	00	112	SLAG & CLINKER	1	2.90				21
27.03	01	01	004	WHITEWARE	2	0.00		SOUTH:1972 NOEL HUME:1976	1820	31
27.03	98	00	017	BONE	5	8.30				32
27.03	98	00	095	COAL	2	10.06				32
27.04	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	22
27.04	01	01	078	GLASS	1	0.00				22
27.04	03	05	004	IRONSTONE	2	0.00	TILE MENDS	SOUTH:1972 NOEL HUME:1976	1813	22
27.04	98	00	028	METAL	6	0.00	VERY CORRODED			22
27.04	98	00	095	COAL	1	1.90				22
27.04	98	00	117	BONE	6	6.20				22
27.05	09	11	126	MISCELLANEOUS HARDWARE	1	0.00				27
27.05	98	00	017	BONE	7	1.40				27
27.05	98	00	028	METAL	3	0.00	CORRODED			27
27.05	98	00	095	COAL	1	0.00				27
27.05	98	00	112	CLINKER	2	24.00				27
28.01	01	02	078	GLASS BOTTLE	1	0.00	RIBBED TINTED GREEN			20
28.01	03	01	078	WINDOW GLASS	1	0.00				20
28.02	01	02	078	GLASS BOTTLE	1	0.00	DARK GREEN TEXTURED SURFACE			18
28.02	03	01	078	WINDOW GLASS	1	0.00				18
29.01	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	26
29.01	98	00	089	SHELL	1	1.60				26
29.01	98	00	095	SLAG	1	1.10				26
29.02	01	01	004	WHITEWARE	3	0.00		SOUTH:1972 NOEL HUME:1976	1820	34
29.02	03	01	078	WINDOW GLASS	1	0.00				33
29.02	03	06	069	BRICK	1	0.00				33
29.02	98	00	112	SLAG	1	0.00				33
30.01	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	18
30.01	03	01	078	WINDOW GLASS	2	0.00				18
30.01	04	04	003	RED EARTHENWARE	1	0.00	RIM FLOWERPOT			18
30.01	04	04	003	RED EARTHENWARE	1	0.00	FLOWERPOT			18
30.02	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	32
30.02	01	02	078	GLASS CONTAINER	1	0.00				32
30.02	03	01	078	WINDOW GLASS	1	0.00				32
30	10	03	052	CHERT	1	0.00	FLAKE			20
30	98	00	095	COAL	1	0.60				32
31.01	01	01	003	PEARLWARE	1	0.00	RIM BLUE EDGED	SOUTH:1972 NOEL HUME:1976	1780	28

Greenhouse Consultants Inc.

Inventory for Staten Island Botanical Garden
Rose Garden

Context	Gp	Cl	Mat	Identity	Count	Weight	Comment	Reference	TPQ	rec
31.01	03	07	028	NAIL	1	0.00	CORRODED			279
31.01	98	00	095	COAL	1	2.80				280
31.02	01	01	004	WHITEWARE	1	0.00	RIM	SOUTH:1972 NOEL HUME:1976	1820	411
31.02	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	412
31.02	03	06	069	BRICK	1	0.00				413
31.02	98	00	017	BONE	2	0.10				415
31.02	98	00	095	COAL	1	5.20				414
32.01	01	01	003	PEARLWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1780	283
32.01	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	285
32.01	01	02	078	GLASS BOTTLE	1	0.00				282
32.01	01	02	078	GLASS BOTTLE	1	0.00	GREEN			284
32.02	01	01	003	PEARLWARE	1	0.00	RIM BLUE EDGED	SUSSMAN:1977	1780	292
32.02	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	288
32.02	01	01	004	WHITEWARE	1	0.00	TRANSFER PRINT BLUE	LOFSTROM:1976 PRICE:1979	1830	291
32.02	01	01	013	MILK GLASS	4	0.00				293
32.02	01	02	078	GLASS BOTTLE	1	0.00				286
32.02	01	02	078	GLASS BOTTLE	1	0.00	GREEN			287
32.02	01	02	078	GLASS BOTTLE	1	0.00	LIP NECK PATENT LIP CYLINDRICAL NECK			290
32.02	98	00	095	COAL	1	36.00				289
33.02	01	01	004	WHITEWARE	2	0.00		SOUTH:1972 NOEL HUME:1976	1820	385
33.02	01	02	078	GLASS BOTTLE	1	0.00	BLUE TINT			386
33.02	01	02	078	GLASS BOTTLE	1	0.00				387
33.02	03	05	003	PIPE	1	0.00	RIM RED EW MUCH GRIT BROWN GLAZE			384
33.02	98	00	095	COAL	1	32.60				383
33.02	98	00	112	SLAG	1	1.30				388
34.01	01	01	003	RED EARTHENWARE	1	0.00	BROWN GLAZE			358
34.01	01	01	004	WHITEWARE	1	0.00	RIM TRANSFER PRINT PINK	PRICE:1979	1830	359
34.01	01	01	004	WHITEWARE	1	0.00	RIM	SOUTH:1972 NOEL HUME:1976	1820	360
34.01	01	01	004	WHITEWARE	2	0.00	TRANSFER PRINT PINK MENDS	PRICE:1979	1830	361
34.01	01	01	004	WHITEWARE	2	0.00	MENDS MENDS WITH 34.02	SOUTH:1972 NOEL HUME:1976	1820	362
34.01	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	364
34.01	01	01	004	WHITEWARE	2	0.00	TRANSFER PRINT PINK	PRICE:1979	1830	365
34.01	01	01	004	WHITEWARE	1	0.00	ANNULAR	PRICE:1979	1830	366
34.01	98	00	017	BONE	2	0.10				363
34.02	01	01	003	BUFF EARTHENWARE	2	0.00	YELLOW GLAZE			382
34.02	01	01	004	WHITEWARE	5	0.00		SOUTH:1972 NOEL HUME:1976	1820	374
34.02	01	01	004	WHITEWARE	1	0.00	TRANSFER PRINT BROWN	PRICE:1979	1830	376
34.02	01	01	004	WHITEWARE	1	0.00	MENDS WITH 34.01	SOUTH:1972 NOEL HUME:1976	1820	380
34.02	01	02	078	GLASS BOTTLE	2	0.00	MENDS REDEPOSITED?			375
34.02	01	02	078	GLASS BOTTLE	5	0.00				381
34.02	03	01	078	WINDOW GLASS	2	0.00				379
34.02	98	00	095	COAL	3	4.90				378
34.02	98	00	112	SLAG	1	12.30				377
35.01	01	02	078	GLASS BOTTLE	1	0.00	GREEN			356
35.01	98	00	112	SLAG	1	1.70				357
35.02	01	01	002	STONEWARE	1	0.00	SALTGLAZE WHITE	HUEY:1984	1720	312
35.02	01	01	003	CREAMWARE	1	0.00	ANNULAR	SOUTH:1972 NOEL HUME:1976	1780	202
35.02	01	01	003	BUFF EARTHENWARE	1	0.00	YELLOW GLAZE BLUE DECORATION			311
35.02	01	01	004	WHITEWARE	1	0.00	TRANSFER PRINT BLUE	LOFSTROM:1976 PRICE:1979	1830	305

Greenhouse Consultants Inc.

Inventory for Staten Island Botanical Garden
Rose Garden

Context	Gp	Cl	Mat	Identity	Count	Weight	Comment	Reference	TPQ	rec#
35.02	01	01	004	IRONSTONE	2	0.00	RIM	SOUTH:1972 NOEL HUME:1976	1813	309
35.02	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	310
35.02	03	05	004	IRONSTONE	2	0.00	TILE			307
35.02	98	00	017	BONE	9	17.40				306
35.02	98	00	028	METAL	2	0.00	CORRODED			304
35.02	98	00	112	SLAG & CLINKER	1	2.00				308
36.01	01	01	003	RED EARTHENWARE	1	0.00	BROWN GLAZE BURNT			416
36.01	03	01	078	WINDOW GLASS	1	0.00				419
36.01	03	06	069	BRICK	1	0.00				417
36.01	98	00	095	COAL	1	0.00				418
36.02	01	01	003	PEARLWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1780	268
36.02	01	01	004	WHITEWARE	4	0.00		SOUTH:1972 NOEL HUME:1976	1820	269
36.02	03	01	078	WINDOW GLASS	2	0.00				270
36.02	98	00	017	BONE	12	11.50				273
36.02	98	00	089	SHELL	1	10.02				271
36.02	98	00	095	COAL	5	2.50				272
37.01	01	01	003	BUFF EARTHENWARE	1	0.00	YELLOW GLAZE ON BOTH SIDE			302
37.01	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	301
37.01	01	01	004	IRONSTONE	1	0.00		SOUTH:1972 NOEL HUME:1976	1813	303
37.01	03	01	078	WINDOW GLASS	1	0.00				300
37.02	03	06	069	BRICK	1	0.00	WITH PLASTER?			438
37.02	08	01	062	PIPE	1	0.00	STEM			436
37.02	98	00	017	BONE	23	3.80				437
37.02	98	00	028	METAL	1	0.00	WITH CONCRETION			435
37.02	98	00	095	COAL	1	12.80				439
38.01	01	01	002	STONEWARE	1	0.00	LIGHT BROWN GLAZE			392
38.01	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	393
38.01	03	01	078	WINDOW GLASS	1	0.00				391
38.01	03	06	069	BRICK	1	0.00				389
38.01	98	00	095	COAL	1	0.40				394
38.01	98	00	112	SLAG & CLINKER	1	2.50				390
38.02	01	01	003	RED EARTHENWARE	1	0.00	TRANSPARENT GLAZE WHITE SPLASHES			403
38.02	01	01	004	WHITEWARE	1	0.00	RIM	SOUTH:1972 NOEL HUME:1976	1820	402
38.02	98	00	028	METAL	1	0.00	WITH CONCRETION			404
38.02	98	00	112	SLAG	1	0.70				405
39.01	01	01	001	PORCELAIN	1	0.00	RIM WITH SLAG?			355
39.01	01	01	004	WHITEWARE	2	0.00		SOUTH:1972 NOEL HUME:1976	1820	353
39.01	01	02	078	GLASS CONTAINER	1	0.00				351
39.01	01	02	078	GLASS CONTAINER	1	0.00	RIBBED			352
39.01	03	01	078	WINDOW GLASS	5	0.00				354
39.01	03	06	069	BRICK	1	0.00				349
39.01	08	01	062	PIPE	1	0.00	STEM			350
39.01	98	00	112	SLAG	4	9.80				348
39.02	01	01	004	WHITEWARE	1	0.00	BLUE TRANSPER PRINT	LOFSTROM:1976 PRICE:1979	1830	432
39.02	98	00	017	BONE	7	12.00				433
39.02	98	00	112	SLAG	1	8.60				434
40.[illegible]	01	01	003	CREAMWARE?	2	0.00		SOUTH:1972 NOEL HUME:1976	1762	233
40.[illegible]	01	01	004	WHITEWARE	1	0.00	RIM	SOUTH:1972 NOEL HUME:1976	1820	230
40.02	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	231

Greenhouse Consultants Inc.

Inventory for Staten Island Botanical Garden
Rose Garden

Conte...	Gp	Cl	Mat	Identity	Count	Weight	Comment	Reference	TPQ	rec
40.02	01	01	078	GLASS	1	0.00				232
40.02	01	02	078	GLASS BOTTLE	1	0.00	GREEN			229
40.02	03	01	078	WINDOW GLASS	2	0.00				226
40.02	08	01	062	PIPE	1	0.00	STEM			227
40.02	08	01	062	PIPE	1	0.00	BOWL			228
*** Total ***					955	1492.36				

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INVENTORY
PART 2
STATEN ISLAND BOTANICAL GARDENS
THE LIONS GARDEN

Greenhouse Consultants Inc.

STATEN ISLAND BOTANICAL GARDENS
SNUG HARBOR
LIONS GARDEN

CONTEXT	GP	CL	MAT	IDENTITY	COUNT	WEIGHT	COMMENT	REFERENCE	TPQ	REC#
100.00	98	00	112	COAL	4	3.60				12
100.00	03	01	078	WINDOW GLASS	2	0.00				13
100.00	09	08	008	STYROFOAM	1	0.00	PACKING PEANUT			14
100.00	09	11	028	MISCELLANEOUS HARDWARE	2	0.00	CAR DOOR BOLT & WASHER BLUE PAINT			15
100.00	03	06	070	MORTAR	4	24.00	SOFT			16
100.00	09	11	028	MISCELLANEOUS HARDWARE	1	0.00	LONG THREADED BOLT & WASHER			17
100.00	09	08	006	WOOD	1	0.00	CRATE FRAGMENT			18
100.00	01	01	004	IRONSTONE	1	0.00	WHITE	SOUTH:1972, NOEL HUME:1976	1813	19
101.00	01	03	003	EARTHENWARE	1	0.00	BLUE GLAZE			20
101.00	01	02	013	MILK GLASS	2	0.00	OPAQUE			21
101.00	01	01	004	IRONSTONE	2	0.00	BODY SHERDS	SOUTH:1972 NOEL HUME:1976	1813	148
101.00	01	01	003	PEARLWARE	1	0.00	BASE SHERD UNDECORATED	SOUTH:1972 NOEL HUME:1976	1780	149
102.00	03	02	028	NAIL	1	0.00	CUT			22
102.00	01	02	008	PLASTIC	1	0.00	CONTAINER LID CIGAR TUBE LID?			23
102.00	03	02	028	NAIL	1	0.00				24
102.00	98	00	008	PLASTER	1	0.02				25
102.00	01	02	013	MILK GLASS	1	0.00				26
102.00	98	00	028	METAL	1	8.25				27
102.00	03	01	078	PLATE GLASS	1	0.00		WILSON IN PETERSON 1976:161	1834	28
102.00	03	01	078	WINDOW GLASS	3	0.00				29
102.00	03	06	169	BRICK	4	14.00				30
102.00	03	01	078	PLATE GLASS	1	0.00		WILSON IN PETERSON 1976:161	1834	31
102.00	98	00	028	IRON	2	0.00	CORRODED			32
102.00	02	01	017	BONE	1	0.03				33
102.00	01	02	078	BOTTLE GLASS	2	0.00	BROWN			34
102.00	01	02	078	GLASS	4	0.00	CONTAINER			61
104.00	98	00	095	COAL	1	77.00				1
105.00	03	02	028	NAIL	1	0.00				2
106.00	03	06	169	BRICK	1	492.00				3
106.00	03	06	169	BRICK	1	379.00				8
106.00	03	06	169	BRICK	1	3.50				35
106.00	01	01	004	WHITEWARE	1	0.00	BODY SHERD	SOUTH:1972, NOEL HUME:1976	1820	36
106.00	01	02	078	BOTTLE GLASS	1	0.00	GREEN			37
106.00	01	01	004	WHITEWARE	1	0.00	BODY SHERD	SOUTH:1972, NOEL HUME:1976	1820	38
106.00	08	01	062	PIPE BOWL	1	0.00	WHITE CLAY			39
106.00	09	11	026	WIRE	1	0.00	TWISTED AT BOTH ENDS			40
200.00	03	06	169	BRICK	2	19.00				41
200.00	98	00	112	COAL	12	30.00				42
200.00	98	00	008	PLASTIC	2	0.00	WIRE OR TUBING			43
200.00	03	01	078	WINDOW GLASS	1	0.00				44
200.00	03	01	078	WINDOW GLASS	1	0.00				45
200.00	03	01	078	PLATE GLASS	2	0.00		WILSON IN PETERSON 1976:161	1834	46
200.00	01	03	003	JACKFIELD WARE	1	0.00		SOUTH:1972 HUME:1976	1750	47
200.00	03	02	028	NAIL	1	0.00				48
200.00	98	00	008	PLASTIC	1	0.00				49
200.00	01	03	001	PORCELAIN	3	0.00				50
200.00	01	02	078	BOTTLE GLASS	3	0.00				5
200.00	01	02	078	BOTTLE GLASS	2	0.00	DARK GREEN			

Greenhouse Consultants Inc.

STATEN ISLAND BOTANICAL GARDENS
SNUG HARBOR
LIONS GARDEN

CONTEXT	GP	CL	MAT	IDENTITY	COUNT	WEIGHT	COMMENT	REFERENCE	TPQ	REC#
200.00	01	02	078	BOTTLE GLASS	1	0.00	BROWN			146
200.00	01	01	003	WHITEWARE	1	0.00	BODY SHERD	SOUTH:1972 NOEL HUME:1976	1820	147
201.00	03	06	169	BRICK	2	206.00				7
201.00	08	01	062	PIPE STEM	1	0.00	WHITE CLAY			52
201.00	98	00	095	COAL	1	0.50				53
201.00	01	02	078	CONTAINER GLASS	1	0.00	GREEN			54
201.00	03	06	070	MORTAR	1	24.50				55
201.00	01	01	004	WHITEWARE	1	0.00	BODY SHERD	SOUTH:1972 NOEL HUME:1976	1820	56
201.00	03	06	070	MORTAR	1	2.00				57
201.00	03	06	169	BRICK	8	32.20				58
201.00	03	02	028	NAIL	1	0.00				59
201.00	98	00	028	IRON	1	0.00	CORRODED			60
202.00	03	06	169	BRICK	1	1113.00				4
202.00	09	11	026	MISCELLANEOUS HARDWARE	1	0.00				62
202.00	01	03	004	WHITEWARE	1	0.00		SOUTH:1972, NOEL HUME:1976	1820	63
202.00	98	00	095	COAL	4	4.00				64
202.00	08	01	047	PIPE	1	0.00	"PETER DORNE" P. 210 FIG. A 1850-81	ALEXANDER:1983	1850	65
202.00	98	00	112	SLAG	3	6.00				66
202.00	01	02	078	BOTTLE GLASS	2	0.00				67
202.00	03	01	078	WINDOW GLASS	2	0.00				68
202.00	04	04	003	FLOWERPOT	7	0.00				69
202.00	01	02	078	BOTTLE GLASS	1	0.00	BROWN			70
202.00	01	03	004	WHITEWARE	2	0.00		SOUTH:1972 NOEL HUME:1976	1820	71
202.00	03	06	169	BRICK	1	0.50				72
202.00	01	02	029	ALUMINUM FOIL	2	0.00				73
202.00	98	00	095	COAL	1	0.25				74
202.00	01	02	078	BOTTLE GLASS	1	0.00	AQUA			144
203.00	04	04	003	FLOWERPOT	14	0.00				5
203.00	03	06	069	BRICK	1	725.00				9
203.00	03	02	028	NAIL	5	0.00	CUT			75
203.00	03	06	070	MORTAR	1	22.50				76
203.00	03	01	078	WINDOW GLASS	1	0.00				77
203.00	98	00	095	COAL	4	5.00				78
203.00	01	02	078	BOTTLE GLASS	5	0.00				79
203.00	01	02	078	BOTTLE GLASS	1	0.00	DARK GREEN			80
203.00	03	02	028	NAILS	4	0.00				81
203.00	03	06	169	BRICK	1	5.00				82
203.00	01	01	004	WHITEWARE	1	0.00		SOUTH:1972 NOEL HUME:1976	1820	83
203.00	01	07	013	MILK GLASS	1	0.00				84
203.00	01	01	004	IRONSTONE	1	0.00		SOUTH:1972 NOEL HUME:1976	1813	85
203.00	03	01	078	WINDOW GLASS	2	0.00	PALE BLUE			86
203.00	98	00	112	SLAG	1	0.50				87
203.00	98	00	095	COAL	1	1.80				88
203.00	04	04	003	FLOWERPOT	4	0.00				89
203.00	98	00	151	TEXTILE	2	0.00				90
203.00	03	06	070	MORTAR	2	80.00				91
203.00	01	02	078	BOTTLE GLASS	1	0.00	BROWN			150
203.00	01	02	078	BOTTLE GLASS	1	0.00	PALE GREEN			1[illegible]

Greenhouse Consultants Inc.

STATEN ISLAND BOTANICAL GARDENS
SNUG HARBOR
LIONS GARDEN

CONTEXT	GP	CL	MAT	IDENTITY	COUNT	WEIGHT	COMMENT	REFERENCE	TPQ	REC#
204.00	02	01	017	BONE	1	0.01				92
204.00	03	01	078	WINDOW GLASS	1	0.00	PALE GREEN			93
204.00	03	04	028	ARCHITECTURAL HARDWARE	1	0.00	DOOR/WINDOW HINGE			94
204.00	98	00	026	CUPROUS	1	0.00	THIN SHEET			95
204.00	03	06	070	MORTAR	7	7.50				96
204.00	04	04	003	FLOWERPOT	6	0.00				97
204.00	98	00	112	SLAG	1	42.00				98
205.00	02	01	017	BONE	1	0.04	BURNED			105
205.00	98	00	112	COAL	1	1.00				106
205.00	03	01	078	WINDOW GLASS	2	0.00				107
205.00	03	02	028	NAIL	3	0.00				108
205.00	03	01	062	PIPE STEM	1	0.00	1.5 CM WHITE CLAY			109
205.00	98	00	112	SLAG	13	42.50				110
206.00	09	11	028	MISCELLANEOUS HARDWARE	2	487.00	CORRODED IRON			6
206.00	03	06	070	MORTAR	1	256.00				10
206.00	03	06	069	BRICK	1	175.00				11
206.00	98	00	112	SLAG	1	0.04				99
206.00	03	06	070	MORTAR	4	27.50				100
206.00	01	02	078	BOTTLE GLASS	1	0.00				101
206.00	03	01	078	WINDOW GLASS	3	0.00				102
206.00	04	04	003	FLOWERPOT	1	0.00				103
206.00	03	06	069	BRICK W/MORTAR	1	1.80				104
207.00	98	00	028	IRON	2	0.00	CORRODED			111
207.00	01	03	004	WHITEWARE	2	0.00		SOUTH:1972 NOEL HUME:1976	1820	112
207.00	03	02	028	NAIL	1	0.00				113
207.00	03	06	070	MORTAR	2	3.00				114
207.00	98	00	095	COAL	2	3.00				115
207.00	03	06	028	WASHER	1	0.00				116
207.00	01	02	003	REDWARE	1	0.00	GLAZED EXTERIOR			117
207.00	01	02	078	GLASS	7	0.00				118
207.00	98	00	112	COAL	2	21.00				119
207.00	98	00	112	SLAG	1	2.00				120
207.00	04	04	003	FLOWERPOT	7	0.00				121
207.00	01	02	078	BOTTLE GLASS	1	0.00	GREEN			152
207.00	01	02	078	BOTTLE GLASS	1	0.00	PALE GREEN			153
207.00	01	02	078	BOTTLE GLASS	1	0.00	DARK GREEN			154
207.00	01	02	078	BOTTLE GLASS	12	0.00	AQUA			155
301.00	98	00	095	COAL	3	15.00				122
301.00	03	02	028	NAILS	5	0.00	CORRODED			123
301.00	09	08	008	STYROFOAM	1	0.00	PEANUT			124
301.00	01	03	078	BOTTLE GLASS	2	0.00	RAISED DESIGN			125
301.00	98	00	028	TUBE	1	0.00				126
301.00	01	03	008	PLASTIC	1	0.00				127
301.00	01	02	078	BOTTLE GLASS	1	0.00				128
301.00	03	02	028	NAIL	1	0.00	CUT			129
301.00	98	00	112	SLAG	6	25.50				130
301.00	01	02	004	WHITEWARE	1	0.00	CONTAINER RIM SHERD	SOUTH:1972 NOEL HUME:1976	1820	15
301.00	01	01	003	EARTHENWARE	1	0.00	BODY SHERD YELLOW GLAZE			1

Greenhouse Consultants Inc.

STATEN ISLAND BOTANICAL GARDENS
SNUG HARBOR
LIONS GARDEN

CONTEXT	GP	CL	MAT	IDENTITY	COUNT	WEIGHT	COMMENT	REFERENCE	TPQ	REC#
301.00	01	01	004	IRONSTONE	1	0.00	RIM SHERD BLUE TRANSFER PRINT	SOUTH:1972 NOEL HUME:1976	1813	158
303.00	03	06	070	MORTAR	1	8.00				131
303.00	98	00	112	SLAG	2	1.00				132
304.00	02	01	017	BONE	1	0.07				133
304.00	03	06	169	BRICK	2	48.50				134
304.00	98	00	095	COAL	9	18.30				135
304.00	98	00	078	GLASS	1	0.00	EMBEDDED IN MORTAR			136
304.00	98	00	112	SLAG	43	55.00				137
305.00	03	02	028	NAIL	3	0.00				138
305.00	03	02	028	NAIL	9	0.00				139
305.00	01	01	003	EARTHENWARE	1	0.00	BROWN GLAZED			140
305.00	98	00	095	COAL	1	0.00				141
305.00	03	06	169	BRICK	1	1.00				142
305.00	04	04	003	FLOWERPOT	1	0.00				143
*** Total ***					387	4520.91				

APPENDIX II
SURVEY RECORD SHEETS

G

SURVEY RECORD SHEETS
PART 1
THE ROSE GARDEN

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

Rose Garden

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 5' NE of drive + .25 ... of road		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 5/1/89	TEST TYPE AND NO. : POST HOLE 1

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-03	clayey loam	10YR 3/2 VDGB	mortar, slag tooth?	contained root mat
.02	0.3-1.1	clayey loam mottled with silty loam	10YR 4/4 DYB + 10YR 4/3 med br	shell ceramic screw coal	include some shale sandstone like rocks
.03					
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Stopped due to a large rock

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

Rose Garden

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 10' NE of PH 1 - 25' from road		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 5/1/89	TEST TYPE AND NO. : POST HOLE 2

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-0.2	loam	10YR 4/3 Med. Br.	coal, mortar(?)	no root mat
.02	0.2-0.4	clayey loam	10YR 4/4 DYB	coal	
.03	0.4-2.1	silty loam	7.5YR 3/4 dark brown	coal, slag, iron?, glass	Contained some roots - ~~increased~~ toward the bottom
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Stopped due to a roots sticking straight up from the bottom of the hole

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

Rose Garden

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 10' NE of PH 2 - 25' W of Road		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 5/1/89	TEST TYPE AND NO. : POST HOLE 3

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 - 0.2	Loam w/ root mat	10YR 3/1 v Dk Gray	glass, metal, plastic	contained root mat
.02	0.2-0.5	Silty loam	10YR 3/3 Dk Brown	ceramic, coal, ...	
.03	0.5 - 1.5	clayey loam with roots	10YR 4/4 Dk Yel Brown	coal, ceramic, clay brick	
.04	1.5 - 1.6	Silty clay	7.5YR 3/4 dark Brown		
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 10' NE of PH 3 - 25' W of Rd		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 5/1/89	TEST TYPE AND NO. : POST HOLE 4

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 - 0.4	Loam	10YR 3/3 Dk Br	Coal	
.02	0.4 - 0.8	Silty loam	10YR 4/2 Dk Grayish Brown	glass, brick, coal, ceramic	
.03	0.8 - 30	silty clayey loam	10YR 4/4 Dk Yel Brown	1 - brick, glass, ceramics ... 2 - STONE brick	3 bags of artifacts
.04				pipe, ... 2 - bone, coal, brick	Saved samples
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Stopped due to limitation of P.H. digger.

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 10' N E of ST 4 - 25' W of Rd		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED : 1/4 inch	DATE : 5/1/89	TEST TYPE AND NO. : POST HOLE 5

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 - 0.3	Loam	10 YR 3/2 v Dk gr Br	—	with [illegible] mat
.02	0.3 - 0.6	Silty loam	10 YR 4/3 [illegible] Br	Slag, brick, Coal	contains small root hairs
.03	0.6 - 1.6	Silty Clay	10 YR 4/4 Dk Yel Br	glass, coal, slag (M?), ...	
.04	1.6 - 2.1	Coal ash	10 YR 7/2 very pale Brown	Slag, cinder + burned coal	Retained samples of coal ash
.05	2.1 - 2.6	Sandy silt	10 YR 4/4 Dk Yel Brown	—	
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Cross Refs :

Plan

Section

Photos

Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 25' from [illegible], 10' from ST. 7.		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED : 1/4 inch	DATE : 1 May 89	TEST TYPE AND NO. : POST HOLE 6

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 — 0.2'	Turf w/ Silty Loam	10 YR 2/2	Glass, Shell, Cinders	
.02	0.2' — 0.9'	Silt	10 YR 3/3	Ceramics, Glass, Coal	
.03	0.9' - 1.7'	Slightly Sandy Silt	10 YR 4/4	—	
.04	1.7' - 2.5'	Coal Ashes in Some Sandy Silt	10 YR 4/2	Coal, Cinders, Bone	
.05	2.5' — ?	Compact Slightly Sandy Silt w/ Cobbles	7.5 YR 4/4	—	Subsoil ?
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)
Stopped @ 2.6' by large rock.
Cult. Mat. Retained
(Coal + Cinders Sampled)

Cross Refs :

Plan

Section

Photos

Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 25' fm. Rd + 10' fm. S.T. 8		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 1 May 89	TEST TYPE AND NO. : POST HOLE 7

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 — 0.2'	Mottled Silt w/ probe Gravel & some Cobbles	10 YR 3/3 w/ 7.5YR 5/6	Concrete, Coal, Cinders	Fill
.02	0.2' — 0.6'	Silty Loam	10 YR 3/2	Ceramics, Glass, Coal	
.03	0.6' — 1.8'	Silt	10 YR 4/4	—	
.04	1.8' — 2.6'	Coal Ashes in sandy Silt w/ cobbles	10 YR 4/2	Coal, Cinders, Brick	
.05	2.6' — ?	Slightly Clayey Silt	10 YR 5/6	—	Subsoil (?)
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Stopped @ 3.0'.

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 25' fm. Rd, 10' fm. 179		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 1 May 89	TEST TYPE AND NO. : POST HOLE 8

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	— 0.3'	Sandy Silt w/ Profuse Gravel Mottled	10 YR 3/3 w/ 10 YR 5/8	Coal, Cinders,	Fill
.02	0.3' — 1.0'	Compact Silty Loam	10 YR 3/2	Coal Cinders	
.03	1.0' — 2.0'	Silt	10 YR 4/3	—	
.04	2.0' — ?	Clayey Silt	10 YR 4/6	—	Subsoil
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Stopped @ 2.3' by large rock.

Cult. Mat. Retained (Coal & Cinder sampled)

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 25' from RA., 10' from St. 10		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 1 May 89	TEST TYPE AND NO. : POST HOLE 9

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 – 0.6'	Compact Silt w/ Pebbles, Gravel. Mottled	10 YR 7/3 w/ 7.5 YR 4/4	Coal, Glass, Cinders	Fill.
.02	0.6' – 1.0'	Silty Loam	10 YR 3/2	—	Buried Turf(?)
.03	1.0' – 2.0'	Slightly Clayey Silt	10 YR 3/3	Ceramics, Glass Coal	
.04	2.0' – ?	Silty Clay	10 YR 4/6	—	Subsoil
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)
Stopped @ 2.8'
Cult. Mat. Retained (Coal & Cinders sampled)

P.H. 9 is 91.8 feet @ 309° from S.W. corner of governor's house. see over

Cross Refs :
Plan
Photos
Section
Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 25' from PH		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 1 May 89	TEST TYPE AND NO. : POST HOLE 10

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 – 0.4'	Turf w/ Topsoil (Silty Loam)	10 YR 3/2	—	
.02	0.4' – 1.5'	Silty Loam	10 YR 4/3	Coal, Glass, Brick	
.03	1.5' – ?	Silt	10 YR 4/6	—	
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)
Stopped @ 2.2'
Cult. Mat. Retained

Cross Refs :
Plan
Photos
Section
Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 10' NW of PH 12=46' wf Rd		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 5/3/89	TEST TYPE AND NO. : POST HOLE #13

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 - 0.1	loam / humus with root mat	10YR 2/1 Very Dk Gray	—	
.02	0.1 - 0.4	Silty loam	10 YR 3/3 Dark Brown	glass, coal, ceramic	
.03	0.4 - 0.45	humus	10YR 2/1 Black	—	very thin lens
.04	0.45 - 0.6	Silty loam	10YR 3/3 Dk brown	coal	
.05	0.6 - 0.8	silty clay	10YR 4/4 Dk Yel Brown	—	
.06	0.8 - 1.1	clayey loam	10YR 3/3 Dark Brown	ceramic, coal, glass, metal	
.07	1.1 - 1.5	silt	10YR 4/4 Dk Yel Brn	ceramic, glass	
.08	1.5 - 2.4	slightly silty clay	10 YR 3/3 Dark Brown	shell, rock ?	
.09	2.4 - 2.8	clay	7.5YR 4/6 Str Brown	—	

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 45' from Rd.		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 2 May 89	TEST TYPE AND NO. : POST HOLE #14

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 - 0.3'	Turf w/ Silty Loam	10 YR 2/2	Coal, Ceramic, Glass	Topsoil
.02	0.3' - 0.9'	Silt w/some mottling	10 YR 3/3 w/ 10 YR 5/6	Coal, Ceramics	
.03	0.9' - 1.8'	Silt w/ some organic Material @ top	10 YR 3/3	Ceramic, Coal	Buried Topsoil (?)
.04	1.8' - ?	Clayey Silt	10 YR 6/6	—	Subsoil
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Stopped @ 2.0' by rock.

Cult. Mat. retained

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 20' SE of PH 1 · 45' of Rd		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 5/8/89	TEST TYPE AND NO. : POST HOLE 11

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 - 0.4	Loam with root mat	10YR 3/2 very dark gray br	—	
.02	0.4 - 0.8	slightly clayey silt	10YR 4/3 Med Br.	Coal, Shell?	
.03	0.8 - 1.8	Silty clay	10YR 4/4 Dk Yel Br	ceramic, glass, iron, coal	
.04	1.8 - 2.2	mottled Silty Clay	10YR 5/6 Yel br 10YR 4/4 Dk Yel br	—	Subsoil
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 10' NE of PH 11 - 45' from Rd		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 5/2/89	TEST TYPE AND NO. : POST HOLE 12

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 – 0.2	Loam with root mat	10YR 4/1 Very dark gray	—	
.02	0.2 - 0.5	clayey loam	10YR 3/2 v Dk g-Br	coal	had a large cut rock, not retained (10 x 3 x 2")
.03	0.5 - 0.7	Compact Silty Clay	10YR 4/6 Dk yel br	—	
.04	0.7 - 2.0	Silty Clay	10YR 3/3 Dk Br	bone, iron, coal	
.05	2.0 - 2.3	wet silty clay	10YR 4/4 Dk Yel Br	—	
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 15' from Rd., 10' from ST.16		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 2 May 89	TEST TYPE AND NO. : POST HOLE 15

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 – 0.3'	Turf w/ Silty Loam	10 YR 3/2	Coal, Ceramics, Shell	Topsoil
.02	0.3' – 1.2'	Compact Silt w/ some Gravel & Mottling	10 YR 4/4 & 10 YR 5/6	Coal, Cinders, Glass	
.03	1.2' – ?	Clayey Silt	10 YR 6/6	—	Subsoil (?)
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)
Stopped @ 1.7'

Cult. Mat. Retained

Cross Refs :

Plan | Photos

Section | Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 45' from Rd.		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 2 May 89	TEST TYPE AND NO. : POST HOLE 16

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 – 0.4'	Turf w/ Silty Loam	10 YR 2/2	—	Topsoil
.02	0.4' – 1.5'	Silt some mottling	10 YR 3/2 w/ 10 YR 5/6	Coal, Cinders, Glass, Ceramics, Wire, etc.	
.03	1.5' – ?	Slightly Clayey Silt – very compact	10 YR 5/6	—	Subsoil (?)
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)
Stopped @ 2.0'

Cult. Mat. Retained (Coal & Cinders Sampled)

Cross Refs :

Plan | Photos

Section | Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 45' from Rd., 10' from ST 16		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED : 1/4 inch	DATE : 7 May 89	TEST TYPE AND NO. : POST HOLE 17

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 — 0.2'	Silty Loam	10 YR 2/2	—	Mostly Removed
.02	0.2' — 0.7'	~~Silty~~ Clayey Silt Mottled	10 YR 4/6 w/ 10 YR 4/3	Shell, Coal, Glass, Ceramic	
.03	0.7 — 1.7'	Silty Clay	10 YR 3/3	Coal, Glass	
.04	1.7' — ?	Silty Clay	7.5 YR 4/6	—	Subsoil
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)
Stopped @ 2.2'
Cult. Mat Retained (Coal Sampled)

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 45' fm Rd, 10' fm ST. 19		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED : 1/4 inch	DATE : 7 May 89	TEST TYPE AND NO. : POST HOLE 18

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 — 0.1'	Silty Loam	10 YR 2/2	—	Topsoil (Mostly Removed)
.02	0.1' — 0.8'	Silt w/ a little Gravel Mottled	10 YR 4/3 w/ 10 YR 5/4	Plastic, Coal, Ceramic	
.03	0.8' — 0.9'	Silt w/ Ashes (?)	10 YR 6/4 w/ 10 YR 3/2	—	Recent Ash Deposit
.04	0.9' — 2.1'	Clayey Silt	10 YR 4/3	Coal	
.05	2.1' — ?	Clayey Silt	7.5 YR 4/6	—	
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.) In Location of former Topsoil pile.
Stopped @ 2.8'.
Cult. Mat. Retained

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 10' NE of PH 22 - 65' W of RD.		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED : 1/4 inch	DATE : 5/3/89	TEST TYPE AND NO. : POST HOLE 23

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 - 0.4	Clayey loam with root mat	10YR 3/2 Very Dk Gray Brown	Ceramic, coal	
.02	0.4 - 1.2	clayey loam potato in compact silty loam	10YR 4/6 Dk Yel Br. 10YR 3/3 Dk Br.	cinder, coal, slag	
.03	1.2 - 1.25	humus	2.5Y 2/0 black	~~brick, not retained~~ —	
.04	1.25 - 1.6	Silty clay	10YR 3/2 very Dark gray Brown	brick, not retained coal	
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)
Stopped due to a large rock in the bottom of the hole.

Cross Refs :

Plan

Section

Photos

Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 10' NE of PH 23 - 65' W of Road		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED : 1/4 inch	DATE : 5/3/89	TEST TYPE AND NO. : POST HOLE 24

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 - 0.8	very compact silt with some clay inclusions	10YR 3/2 very Dark Gray Brown	—	
.02	0.8 1.1	very compact clayey silt	10YR 4/4 Dk Yel Brown	coal, ceramic, brick...	
.03	1.1 - 1.15	humus	10YR 2/1 Black	—	
.04	1.15 - 2.0	very compact silty loam	10YR 3/1 very dark gray	Shell, slag, metal	very compact and rocky
.05	2.0 - 2.8	compact clayey silt	10YR 3/3 Dark Brown	ceramic, coal, cinder	only retained samples of coal + cinder
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)
Soil began to ~~sme~~ smell slightly oily in 4th layer.
All layers were very hard + compact.
Stopped due to brick + ground water

Cross Refs :

Plan

Section

Photos

Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 20' SE of PH 11-65' W/Re		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 5/3/89	TEST TYPE AND NO. : POST HOLE 21

STRATIGRAPHY. :

LAYER	DEPTH •	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-0.9	Clayey silt	10YR 5/2 Very Dk gr. Brown	Coal, flint, brick	
.02	0.9-3.2	clay silt	10YR 5/6 Yel. Br. 10YR 3/3 Dk Br	ceramics, bone, coal, slags (sandstone) flint	more clay pockets toward the bottom
.03	3.2-3.7	clay silty clay	10YR 5/6 Yel. Br 10YR 4/3 med. Br	Coal ceramic	may be the same as above layer
.04					
.05					
.06					
.07					
.08					

• Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

stopped due to limitations of post hole digger.

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : 10' NW of PH 21-65' W/Re		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 5/3/89	TEST TYPE AND NO. : POST HOLE 22

STRATIGRAPHY. :

LAYER	DEPTH •	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-0.4	loam	10YR 3/3 Dk Br	Coal, ceramics	
.02	0.4-1.1	clayey loam	10YR 3/2 Very Dk gr. Brown	Coal, ceramic bone	
.03	1.1-1.7	Silty clay	10YR 3/3 Dark Brown	brick, coal, ceramic	
.04	1.7-2.2	Coal ash in Silt	10YR 3/3 Dark Br	Coal ash sample retained. bone	Pipe in hole.
.05					
.06					
.07					
.08					

• Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

stopped due to pipe (metal, corroded) at 1.9' in NNW direction through hole.

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES : ~~25~~' fm Rd., ~~[illegible]~~		
SITE : BG	SUPERVISOR : W. ROBERTS	EXCAVATOR : L.STONE	SCREENED ? 1/4 inch	DATE : 3 May 89	TEST TYPE AND NO. : POST HOLE 25

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 – 0.3'	Turf w/ Silty Loam	10 YR 2/2	Coal, Glass	Topsoil
.02	0.3' – 2.0'	Clayey Silt	10 YR 3/2	Coal, Ceramics	
.03	2.0 – 3.2'	Clayey Silt	10 YR 4/4	Coal, Ceramics, clay Pipestem	
.04	3.2' – ?	Silty Clay	7.5 YR 4/4		Subsoil
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Stopped @ 3.4'

Cult. Mat. Retained (Coal Sampled)

Cross Refs :

Plan

Section

Photos

Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE : BG	SUPERVISOR : SANDY W. ~~ROBERTS~~	EXCAVATOR : F. DUNSMORE ~~L.STONE~~	SCREENED ? 1/4 inch	DATE : 4 MAY 89	TEST TYPE AND NO. : POST HOLE 26

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0 – 0.4'	CLAY LOAM	10YR 4/2 DK G BR	1(p) QUARTZITE FLAKE 1 GLASS 1 COAL	FILL
.02	0.4 – 1.0	SANDY CLAY	10YR 4/3 BROWN	2 NAIL 1 GLASS 1 COAL	"
.03	1.0 – 1.5	SANDY CLAY	10YR 5/4 Y BR	1 CLEAR GLASS 13 COAL*	"
.04	1.5 – 2.5	SILTY CLAY	10YR 4/4 DK Y Br	1 KAOLIN PIPE STEM FRAG 1 CERAMIC 4 BRICK 1 BONE 1 GLASS 1 SPIKE 1 NAIL 1 SLAG	" 5 COAL ASH WHITEWARE 17 COAL * REDWARE YELLOWWARE ? FILL?
.05	2.5 – 3.2	SANDY SILT	10YR 5/3 BR	—	V. SUBSOIL ?
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

NEAR 16" PWE

* sampled

This test is 1.5 to 2.0 below ST 25 & all other previous tests.

It along w/ 27-30 + 35-40 are on a lower terrace

Cross Refs :

Plan

Section

Photos

Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE : BG	SUPERVISOR : ~~W. ROBERTS~~ W, SANDY	EXCAVATOR : L.STONE F. DUNSMORE	SCREENED ? 1/4 inch	DATE : 4MAY89	TEST TYPE AND NO. : POST HOLE 27

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-0.8	CLAY LOAM	10YR4/3 Br	GLASS, COAL + REDWARE	Fill
.02	-1.7	SANDY CLAY	10YR5/4 YBr	BRICK(DISC) SLAG GLASS Teeth	Fill
.03	-2.1	SANDY CLAY	10YR4/4 OR YBr w/10YR4/6	COAL BRICK & ICEPANIC (new) BONE FRAGS	V. MOTTLED + MIXED Fill
.04	-2.4	CLAY + SAND	10YR6/1 LTGR → 10YR4/4	4 ceramic 1 metal	Fill
.05	-2.6	SANDY SILT	10YR5/8 YBr	NAILS Bone metal SLATE Pencil	V. Mottled SUBSOIL
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE : BG	SUPERVISOR : W. ~~ROBERTS~~ SANDY	EXCAVATOR : ~~L.STONE~~ F DUNSMORE	SCREENED ? 1/4 inch	DATE : 4MAY89	TEST TYPE AND NO. : POST HOLE 28

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-1.0	CLAY LOAM	10YR4/3 Br	2 GLASS 1 SHELL	FILL
.02	-1.6	SANDY CLAY	10YR4/4 OR YBr w/10YR4/3	2 GLASS	Fill
.03					
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)
Root CONSTRUCTION STOPPED EXCAVATION

Brad Green
Charlie Rafuno
VISITED

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE :	SUPERVISOR :	EXCAVATOR :	SCREENED ?	DATE :	TEST TYPE AND NO. :
BG	W. ROBERTS SANDY	~~L.STONE~~ F. DUNSMORE	1/4 inch		POST HOLE 29

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-0.9	CLAY LOAM	10YR4/3 Br	1CERAMIC 1SLAGG 1CLAMSHELL	
.02	-2.4	SANDY CLAY	10YR 4/4 4/1 10YR4/3 Br	2CERAMIC 1GLASS ~~SHELL~~ BRICK*	V. MOTTLED, Decreasing w/ Depth
.03					
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)
sample retained

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE :	SUPERVISOR :	EXCAVATOR :	SCREENED ?	DATE :	TEST TYPE AND NO. :
BG	W. ROBERTS	L.STONE	1/4 inch	4/11/AY 89	POST HOLE 30

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-0.8'	CLAY LOAM	10YR4/3 Br	2FLOWERPOT 2GLASS 1CERAMIC 1COAL/ASH	
.02	-2.1	SILTY CLAY W/ SHALE	10YR4/4 DKYBr	(1)FLAKE BRICK*	Fill?
.03	-2.6	SANDY CLAY	10YR4/6 DKYBr	BRICK*	
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.) Abandoned
End of line

Cross Refs :	
Plan	Photos
Section	Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE : BG	SUPERVISOR : W. ROBERTS WS	EXCAVATOR : L.STONE FD	SCREENED ? 1/4 inch	DATE : 5-4-89	TEST TYPE AND NO. : POST HOLE 31

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-1.8	Clay loam	10YR3/2 VDKG Br	WHL COAL + Ceramic	
.02	-3.0	Silty Clay	10YR4/3 Br	coal brick loam ceramic	B?
.03					
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Cross Refs :

Plan | Photos

Section | Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE : BG	SUPERVISOR : W. ROBERTS W S	EXCAVATOR : L.STONE FD	SCREENED ? 1/4 inch	DATE : 4 MAY 89	TEST TYPE AND NO. : POST HOLE 32

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-1.8	SANDY CLAY	10YR 3/2 DK GR. BR MOTTLED	2 GLASS 2 CERAMIC	MIXED FILL
.02	-2.6	Clay loam	10YR 3/3 DKBr	3 GLASS 8 CERAMIC + MILK GLASS	BURIED TURFAT 1.8 A
.03					
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Cross Refs :

Plan | Photos: FINE VIEW WITH PH1

Section | Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE : BG	SUPERVISOR : W. ROBERTS W. SALTY	EXCAVATOR : L.STONE F D	SCREENED : 1/4 inch	DATE : 4 MAY 89	TEST TYPE AND NO. : POST HOLE 33

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-0.4	SANDY CLAY	10YR4/3 M. Br 10YR 5/6 YB	—	Mixed Fill w/ compact
.02	-2.5	Clay Loam	10YR 3/2 V DK GREY Br	coal / drain pipe, 1 slag, 3 GLASS 2 ceramic	
.03					
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)
Higher than PH 35

Cross Refs :

Plan

Section

Photos

Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE : BG	SUPERVISOR : W. ROBERTS W. S	EXCAVATOR : L.STONE F. D	SCREENED : 1/4 inch	DATE : 4 MAY 89	TEST TYPE AND NO. : POST HOLE 34

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-1.5	Clay Loam w/ Silty Clay	10YR4/3 Br w/ 10YR6/4 BY	1 ceramic (redware/porcelain?)	Mixed fill
.02	-3.0	Clay Loam	10YR 4/3 Br	coal, 1 slag, 9 glass, 9 ceramic (yellowware porcelain?)	A?
.03					
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)
* PH is on N side of lg. (5' high) fill pile
Site-2 higher than ST 35

*sample retained

Cross Refs :

Plan

Section

Photos

Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE : BG	SUPERVISOR : W. ROBERTS W.S	EXCAVATOR : L.STONE F.D	SCREENED ? 1/4 inch	DATE : 4/14/89	TEST TYPE AND NO. : POST HOLE 35

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-0.9	Clay loam	10YR4/3 Br	coal?, brick?, 1 glass	
.02	0.9-2.3	Silty Clay	10YR4/4 w. 10YR4/3	Bone (mammal) 1 ceramic 1 slag 2 IRON	Mottled w. .01
.03	2.3-2.5	Silty Clay	DK Y Br 10YR4/4		
.04					
.05					
.06					
.07					
.08					

(margin note beside .02:) [illegible] w.w v.w

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)
*sample retained

Cross Refs :

Plan

Section

Photos

Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE : BG	SUPERVISOR : ~~W. ROBERTS~~ W.S	EXCAVATOR : ~~L.STONE~~ F.D	SCREENED ? 1/4 inch	DATE : 4/14/89	TEST TYPE AND NO. : POST HOLE 36

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-1.3	Clay loam	10YR4/3 Br	coal?, brick? slag, flat glass	A
.02	-2.3	Silty Clay w/ Clay loam	10YR4/- DK Y Br [illegible]	bone [illegible] [illegible] 2 PCS [illegible] [illegible]	INTERFACE ?
.03	-3.0	Silty Clay	DK Y Br 10YR4/4	—	B ?
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Cross Refs :

Plan

Section

Photos
Will's camera: [illegible] LOOK SOUTH AT ST 36 FROM ST 40; [illegible] LOOK EAST AT ST 36; 1st [illegible] LOOK NORTH AS ST 36
DUPLICATED W/ BILLS CAMERA

Notebook Parkland Project B-14

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE : BG	SUPERVISOR : W. ROBERTS W.S	EXCAVATOR : ~~L.STONE~~ F.D.	SCREENED ? 1/4 inch	DATE : 4 MAY 89	TEST TYPE AND NO. : POST HOLE 37

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT.MAT.	NOTES
.01	0-0.8	Clay Loam	10YR4/3 Br	1 stoneware 2 whiteware 1 glass	
.02	-2.7	Silty Clay	10YR4/4 DK Y Br	coal & bone brick frags 1 [illegible] iron	1 kaolin pipe stem
.03					
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

Cross Refs :

Plan

Section

Photos

Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE : BG	SUPERVISOR : W. ROBERTS W SANDY	EXCAVATOR : L.STONE F. DUBSHORE	SCREENED ? 1/4 inch	DATE : 4 MAY 89	TEST TYPE AND NO. : POST HOLE 38

STRATIGRAPHY. :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT.MAT.	NOTES
.01	0-1.1	Clay Loam	10YR4/3 Br	Brick? coal & glass 2 ceramic slag	
.02	1.1-2.3	Silty Clay	10YR4/4 DK Y Br	[illegible] 1 nail metal 1 brick glass 1 ceramic	
.03					
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.)

* sample taken

Mottling of 2.1 in 2.2 decreased w/depth

Cross Refs :

Plan

Section

Photos

Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE : BG	SUPERVISOR : W. ~~ROBERTS~~ SANDY	EXCAVATOR : ~~L. STONE~~ F. DUNSMORE	SCREENED ? 1/4 inch	DATE : 4/24/89	TEST TYPE AND NO. : POST HOLE 337

STRATIGRAPHY :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-0.8	Clay Loam	10YR4/3 Br	[illegible] Brick [illegible]	[illegible]
.02	0.8-2.0	Silty Clay	10YR [illegible] Dk Y Br	[illegible]	
.03					
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.) STOPPED BY ROCK OBSTRUCTION
* [illegible]
* [illegible]

Cross Refs :

Plan

Section

Photos

Notebook

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT : STATEN ISLAND BOTANICAL GARDENS			COORDINATES :		
SITE : BG	SUPERVISOR : W. ~~ROBERTS~~ SANDY	EXCAVATOR : ~~L. STONE~~ F. DUNSMORE	SCREENED ? 1/4 inch	DATE : 4/24/89	TEST TYPE AND NO. : POST HOLE 340

STRATIGRAPHY :

LAYER	DEPTH *	DESCRIPTION	COLOR	CULT. MAT.	NOTES
.01	0-0.8	CLAY LOAM	10YR4/3 Br	BRICK +	
.02	0.8-3.2	SILTY CLAY	10YR4/4 DK Y Br	[illegible]	MOISTURE INCREASES W/ DEPTH
.03					
.04					
.05					
.06					
.07					
.08					

* Give depths relative to ground surface

General Notes : (Note if cult. material retained, and if soil samples are taken.) [illegible]
[illegible] * [illegible] [illegible]

Cross Refs :

Plan

Section

Photos

Notebook

SURVEY RECORD SHEETS
PART 2
THE LIONS GARDEN

SIBG-LG

CONTEXT NUMBER 100

SITE CODE ___ GRID UNIT N ___ E ___

CREW CHIEF L Stone

RECORDER S. Leskoe - K. Rebler

DATE July / 10 / 1989

CENTER POINT COORDINATES

X 10 Y 5.75 Z Bottom

NW corner 0.9-1.05

used datum at bottom of tile + top of gray conduit

DIGGING TOOLS shovels

Context Description Munsell Color 10YR 3/2 VDGB

(Composition, texture, inclusions) sod with clayey loam. Contained several small pieces of slate which were discarded (0-0.2')

STRATIGRAPHY

Overlaid by Cx # ___

Overlies Cx # 101

Cuts Cx # ___

Cut by Cx # ___

Abuts Cx # ___

Eqvlent to Cx # ___

INTERPRETATION

GENERAL ARTIFACTS slate, wood, Styrofoam, foil + plastic paper wrappers (discarded), mortar *, coal, ceramic, brick, screws & nuts

* - sampled

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.):

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #: —

PLAN #:

Samples Taken: —

Flotation

Soil — Other —

SIBG LG

CONTEXT NUMBER 101

SITE CODE ___ GRID UNIT N ___ E ___

CREW CHIEF L Stone

RECORDER LS + KR

DATE July / 10 / 1989

CENTER POINT COORDINATES

X 10 Y 5.75 Z NW 1.05-1.3

NW corner - Datum at the base of brick top of granite cement ... Morgue

DIGGING TOOLS shovel + trowel

Context Description Munsell Color 10YR 3/3 DkBr, 10YR 4/6 DYB

(Composition, texture, inclusions) Mottled slightly loamy clay - compact - a lot of small gravels - small gravels mark the start of Cx 102

STRATIGRAPHY

Overlaid by Cx # 100

Overlies Cx # 102

Cuts Cx # asphalt drive

Cut by Cx # ___

Abuts Cx # ___

Eqvlent to Cx # ___

INTERPRETATION

Gravel toward the bottom could be related to a drive

GENERAL ARTIFACTS

asphalt not retained, ceramic, brick, mortar, glass

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.):

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #: —

PLAN #: —

Samples Taken:

Flotation —

Soil — Other —

CONTEXT NUMBER 102 · S1 BG-LG

SITE CODE ____ GRID UNIT N ____ E ____

CREW CHIEF L STONE

RECORDER LS + KR

DATE July / 10 / 1989

CENTER POINT COORDINATES NW

X 10 Y 575 Z 135 -1.5

DIGGING TOOLS Shovel ~~trowel~~

Context Description (Composition, texture, inclusions) clay loam w/ profuse gravel (soil)

Munsell Color 10YR 4/3 MED. Brown

STRATIGRAPHY

Overlaid by Cx # 101

Overlies Cx # 103

Cuts Cx # ____

Cut by Cx # ____

Abuts Cx # ____

Eqvlent to Cx # ____

INTERPRETATION probable driveway/parking lot surface, because of excessive gravel.

GENERAL ARTIFACTS nail, plastic cover, metal, glass, mortar, brick, coal (?),

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.):

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #: ____

PLAN #: ____

Samples Taken:
Flotation ____

Soil ____ Other ____

BG-LG

CONTEXT NUMBER 103

SITE CODE ____ GRID UNIT N ____ E ____

CREW CHIEF L Stone

RECORDER LS · GM · KR

DATE July / 11 / 89

CENTER POINT COORDINATES

X 10 Y 575 Z 11.5 -1

DIGGING TOOLS Shovel & trowel

Context Description (Composition, texture, inclusions) Mostly gravel very little soil,

Munsell Color 10yr 3/2 Dark greyish brown

STRATIGRAPHY

Overlaid by Cx # 102

Overlies Cx # 104, 105, 106

Cuts Cx # ____

Cut by Cx # ____

Abuts Cx # ____

Eqvlent to Cx # ____

INTERPRETATION probably a parking lot driveway surface

GENERAL ARTIFACTS metal fragments, eroded brick.

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.): 2

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #: ____

PLAN #: ____

Samples Taken:
Flotation ____

Soil ____ Other ____

CONTEXT NUMBER 104 — SIBG LG

SITE CODE — GRID UNIT N E

CREW CHIEF C Stone

RECORDER GA + KR

DATE July 11 1989

CENTER POINT COORDINATES X 10 Y 55 Z 117 NW 20-25 Center

DIGGING TOOLS shovel + trowel

Context Description (Composition, texture, inclusions) asphalt

Munsell Color 7.5YR 2/0 Black Crumbly

STRATIGRAPHY		INTERPRETATION
Overlaid by	Cx # 103	
Overlies	Cx # 107	
Cuts	Cx #	
Cut by	Cx #	
Abuts	Cx #	
Eqvlent to	Cx #	

GENERAL ARTIFACTS: Coal, glass, corroded nail, metal, brick

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.): 2

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE	8-10	
GENERAL		

DRAWINGS:

SECTION #:

PLAN #: 1

Samples Taken:
Flotation

Soil Other

SIBG - LG

CONTEXT NUMBER 105

SITE CODE — GRID UNIT N E

CREW CHIEF C. Stone

RECORDER GA + KR

DATE July 11 1989

CENTER POINT COORDINATES X 10 Y 525 Z 117 NW

DIGGING TOOLS trowels

Context Description (Composition, texture, inclusions) Dragging rock w/ crushed rock

Munsell Color 5Y 4/2 olive gray

STRATIGRAPHY		INTERPRETATION
Overlaid by	Cx # 103	
Overlies	Cx # 108	
Cuts	Cx #	
Cut by	Cx #	
Abuts	Cx #	
Eqvlent to	Cx #	

GENERAL ARTIFACTS: brick + corroded nail

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.): 1

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE	8-10	
GENERAL		

DRAWINGS:

SECTION #: —

PLAN #: 1

Samples Taken:
Flotation

Soil Other

SIBGLG

CONTEXT NUMBER

| 1 | 0 | 6 | | |

SITE CODE ___ ___ ___ GRID UNIT N ___ E ___

CREW CHIEF L Stone

RECORDER GA + KR

DATE July / 11 / 1989

CENTER POINT COORDINATES

X 10 Y 575 Z 17 ~~Her~~ center @ 106 / 1.9

DIGGING TOOLS Trowels

Context Description (Composition, texture, inclusions)

Munsell Color 10YR 4/4 Dk Yel Br

Clayey loam with profuse small/med sized gravel

STRATIGRAPHY

Overlaid by Cx # 103
Overlies Cx # 104
Cuts Cx #
Cut by Cx #
Abuts Cx #
Eqvlent to Cx #

INTERPRETATION

GENERAL ARTIFACTS

brick, metals ceramic, glass

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.):

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #:
PLAN #:

Samples Taken:
Flotation
Soil Other

CONTEXT NUMBER

| 1 | 0 | 7 | | |

SITE CODE ___ ___ ___ GRID UNIT N ___ E ___

CREW CHIEF L Stone

RECORDER

DATE July / /

CENTER POINT COORDINATES

X Y Z

DIGGING TOOLS

Context Description (Composition, texture, inclusions)

Munsell Color

STRATIGRAPHY

Overlaid by Cx #
Overlies Cx #
Cuts Cx #
Cut by Cx #
Abuts Cx #
Eqvlent to Cx #

INTERPRETATION

GENERAL ARTIFACTS

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.): 2

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE	13-15	
GENERAL		

DRAWINGS:

SECTION #:
PLAN #:

Samples Taken:
Flotation
Soil Other

CONTEXT NUMBER 0200

SITE CODE S1 BG AG — GRID UNIT N ___ E ___

CREW CHIEF Linda Stone
RECORDER L.O. / SP
DATE 10 / July / 87

CENTER POINT COORDINATES X ___ Y ___ Z ___

DIGGING TOOLS Shovel / trowel

Context Description (Composition, texture, inclusions) — Munsell Color 10YR 3/3 D. Brown.
Sod & Topsoil. Sods were removed along with topsoil adhering to the root mat. The soil was a rich loam. The [illegible]

STRATIGRAPHY N/A
Overlaid by Cx # ___
Overlies Cx # ___
Cuts Cx # ___
Cut by Cx # ___
Abuts Cx # ___
Eqvlent to Cx # ___

INTERPRETATION
N/A

GENERAL ARTIFACTS
Small amount of China, glass, coal, brick. Larger amount of building debris found at interface.

ARTIFACTS IN SITU
N/A

PHOTOGRAPHS (Roll #.): N/A

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS: N/A
SECTION #: ___
PLAN #: ___

Samples Taken:
Flotation ___
Soil ___ Other ___

CONTEXT NUMBER 0201

SITE CODE S1 BG AG — GRID UNIT N ___ E ___

CREW CHIEF Linda Stone
RECORDER L.O. / SP
DATE 10 / July / 87

CENTER POINT COORDINATES X ___ Y ___ Z ___

DIGGING TOOLS Trowel.

Context Description (Composition, texture, inclusions) — Munsell Color 10YR 5/8 YB / 10YR 4/4 DYB
Mottled apparently building debris, Decomposed water soaked wood. Coal, coke, glass, brick, metal. Through out silty clay & silty loam

STRATIGRAPHY
Overlaid by Cx # 200
Overlies Cx # 202
Cuts Cx # ___
Cut by Cx # ___
Abuts Cx # ___
Eqvlent to Cx # ___

INTERPRETATION
elevation 0.2' below Top of CX 202

GENERAL ARTIFACTS
Decomposed wood. Coal, coke, glass brick, metal.

ARTIFACTS IN SITU
Stone & metal stud in N.W. Corner

PHOTOGRAPHS (Roll #.): ✓

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS: ✓
SECTION #: ___
PLAN #: ___

Samples Taken:
Flotation ___
Soil ___ Other ___

CONTEXT NUMBER 202

SITE CODE S1 PG LG GRID UNIT N ___ E ___

CREW CHIEF Linda Stone

RECORDER J.W/SP.

DATE 11 / July / 87

CENTER POINT COORDINATES X ___ Y ___ Z ___

DIGGING TOOLS Trowel.

Context Description (Composition, texture, inclusions) Silty loam

Munsell Color 10YR 3/2 Dark brown

STRATIGRAPHY

Overlaid by Cx # 200/201

Overlies Cx # 203

Cuts Cx # ___

Cut by Cx # ___

Abuts Cx # ___

Eqvlent to Cx # ___

INTERPRETATION

N.E 0-4

N.W 0-5

S W 0-5

S E 0-3

GENERAL ARTIFACTS

glass, ceramic some coal, some building material.

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.):

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #: ___

PLAN #: ___

Samples Taken: Flotation ___

Soil ___ Other ___

CONTEXT NUMBER 203

SITE CODE ___ GRID UNIT N ___ E ___

CREW CHIEF Linda Stone

RECORDER J.W/SP.

DATE 11 / July / 87

CENTER POINT COORDINATES X ___ Y ___ Z ___

DIGGING TOOLS Trowel.

Context Description (Composition, texture, inclusions) Mottled. Silt and flecks of mortar, brick, charcoal. glass Bad

Munsell Color 10YR 5/8 Y/3 10YR 3/1 vos.

STRATIGRAPHY

Overlaid by Cx # ___

Overlies Cx # ___

Cuts Cx # ___

Cut by Cx # ___

Abuts Cx # ___

Eqvlent to Cx # ___

INTERPRETATION

2.6' W of N.E Corner.

2.0 W of S.E. Corner.

N.E Corner elevation 0.35'

S E " " 0-4 below grade.

GENERAL ARTIFACTS

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.):

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #: ___

PLAN #: ___

Samples Taken: Flotation ___

Soil ___ Other ___

CONTEXT NUMBER 204

SITE CODE 51 | 35 | 45 | GRID UNIT N | E

CREW CHIEF Linda Stone

RECORDER JD/SP

DATE 11 / July / 81

CENTER POINT COORDINATES X | Y | Z

DIGGING TOOLS Trowel

Context Description (Composition, texture, inclusions) silt coal frags Coal ash cinder Red Ware Mortar

Munsell Color 10YR 5/2

STRATIGRAPHY

- Overlaid by Cx # 202
- Overlies Cx # 205
- Cuts Cx #
- Cut by Cx #
- Abuts Cx # 203
- Eqvlent to Cx #

INTERPRETATION

N.W 0-6' below grade.
S.W. 0-6' below grade

GENERAL ARTIFACTS

Red Ware.

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.):

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #:

PLAN #:

Samples Taken:
Flotation

Soil Other

CONTEXT NUMBER 205

SITE CODE 51 | B5 | 45 | GRID UNIT N | E

CREW CHIEF Linda Stone

RECORDER JD/SP

DATE 11 / July / 81

CENTER POINT COORDINATES X | Y | Z

DIGGING TOOLS Trowel

Context Description (Composition, texture, inclusions) Coal ash w/ silt gravel

Munsell Color 7.5YR 7/2 Pinkish gray 10YR 4/2 ...

STRATIGRAPHY

- Overlaid by Cx # 204
- Overlies Cx #
- Cuts Cx #
- Cut by Cx #
- Abuts Cx #
- Eqvlent to Cx #

INTERPRETATION

0.8 below grade. NW + SW corners.

GENERAL ARTIFACTS

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.):

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #:

PLAN #:

Samples Taken:
Flotation

Soil Other

CONTEXT NUMBER: 206

SITE CODE: 8I 86 LG | GRID UNIT: N | E

CREW CHIEF: Linda Stone
RECORDER: JW/WR
DATE: 12 / July / 89

CENTER POINT COORDINATES: X | Y | Z

DIGGING TOOLS: Trowel

Context Description (Composition, texture, inclusions): Mottled Slightly Clayey Silt w/ granite stone, brick & Mortar rubble.

Munsell Color: 10YR 5/6 (Pale Br.) mottled w/ 10YR 3/3 (Dk. Br.)

STRATIGRAPHY
- Overlaid by Cx #: 203
- Overlies Cx #:
- Cuts Cx #:
- Cut by Cx #:
- Abuts Cx #:
- Eqvlent to Cx #:

INTERPRETATION: Building Rubble over stone wall foundation.

0.9 ft. below grade N. side center (1.5' from wall)
0.85 ft. below grade S. side center (")

GENERAL ARTIFACTS: Shells, Brick, Mortar, Rock, Glass

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.):

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:
- SECTION #:
- PLAN #:
- Samples Taken: Flotation
- Soil Other

CONTEXT NUMBER: 207

SITE CODE: | GRID UNIT: N | E

CREW CHIEF: Silvio Tosi
RECORDER: J.W./WR
DATE: 12 / July / 89

CENTER POINT COORDINATES: X | Y | Z

DIGGING TOOLS: Trowel

Context Description (Composition, texture, inclusions): Highly mottled Mixture w/ charcoal & brick. Highly silty. Clayish appearance does not adhere.

Munsell Color: 7.5YR 6/6 5/8 | 10YR 5/3 5/3 | 10YR 6/4 DY3.

STRATIGRAPHY
- Overlaid by Cx #: 204/205
- Overlies Cx #:
- Cuts Cx #: ~~206~~
- Cut by Cx #:
- Abuts Cx #: 206.
- Eqvlent to Cx #:

INTERPRETATION

1.3' below grade 2' from S.W. corner.
1.15' " " " " N.W. corner.

GENERAL ARTIFACTS

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.):

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:
- SECTION #:
- PLAN #:
- Samples Taken: Flotation
- Soil Other

CONTEXT NUMBER 208

SITE CODE S1 RG 25 GRID UNIT N E

CREW CHIEF Linda Stone

RECORDER CR/JW

DATE 12 July 87

CENTER POINT COORDINATES X Y Z

DIGGING TOOLS Trowel

Context Description (Composition, texture, inclusions) Mostly stone with mortar. Munsell Color Mortar 10YR 7/3 VPB

STRATIGRAPHY

Overlaid by Cx # 206

Overlies Cx #

Cuts Cx #

Cut by Cx #

Abuts Cx #

Eqvlent to Cx #

INTERPRETATION

Wall foundation

S'ern side 1-2' below grade

N'ern side 1-1' below grade

@ 1-3-1-4' top to bottom

@ 2' wide.

GENERAL ARTIFACTS

/

ARTIFACTS IN SITU

/

PHOTOGRAPHS (Roll #.): 2 from 16-18

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #:

PLAN #: 4

Samples Taken:
Flotation

Soil Other

CONTEXT NUMBER 207

SITE CODE S1 RG 25 GRID UNIT N E

CREW CHIEF Linda Stone

RECORDER CR/JW

DATE 12 July 87

CENTER POINT COORDINATES X Y Z

DIGGING TOOLS Trowel

Context Description (Composition, texture, inclusions) Slightly clayey silt containing occ. mortar stone Munsell Color 10YR 3/2 dark brown

STRATIGRAPHY

Overlaid by Cx # 206

Overlies Cx #

Cuts Cx #

Cut by Cx #

Abuts Cx # 208

Eqvlent to Cx #

INTERPRETATION

Building destruction rumble.

GENERAL ARTIFACTS

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.): 2 from 16-18

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #:

PLAN #: 4

Samples Taken:
Flotation

Soil Other

SIBG-LG

CONTEXT NUMBER 300

SITE CODE

GRID UNIT N E

CREW CHIEF L Stone

RECORDER SP + LS

DATE July / 12 / 89

CENTER POINT COORDINATES

X E 97 Y S 45 Z 105 – 1.15

DIGGING TOOLS Shovel

Context Description (Composition, texture, inclusions) Sod with loam which is clayey in parts. The 7.5YR 4/4 is found in the NW of square

Munsell Color 10YR 3/2 V DGB + 7.5YR 4/4 Med. brown

STRATIGRAPHY

- Overlaid by Cx # —
- Overlies Cx # 301
- Cuts Cx #
- Cut by Cx #
- Abuts Cx # 100
- Eqvlent to Cx # 100

INTERPRETATION

GENERAL ARTIFACTS plastic*, foil* mortar (sample), plastic, metal, glass

discarded

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.):

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #:

PLAN #:

Samples Taken:
Flotation

Soil Other

SIBG LG

CONTEXT NUMBER 301

SITE CODE

GRID UNIT N E

CREW CHIEF L Stone

RECORDER LS + SP

DATE July / 12 / 1989

CENTER POINT COORDINATES

X E 97 Y S 45 Z 115

DIGGING TOOLS Shovel + trowel

Context Description (Composition, texture, inclusions) clayey loam, very compact

Munsell Color 10YR 3/4 Dk Yel Br + 10YR 4/6 Dk Yel patch in N

STRATIGRAPHY

- Overlaid by Cx # 300
- Overlies Cx # 302
- Cuts Cx #
- Cut by Cx #
- Abuts Cx # 201
- Eqvlent to Cx # 201

INTERPRETATION

GENERAL ARTIFACTS Mortar*, ceramic, plastic, nail, metal, glass, asphalt (discarded)

* - sampled

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.):

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #:

PLAN #:

Samples Taken:
Flotation

Soil Other

Form 1

SIBG LG

CONTEXT NUMBER 302

SITE CODE ___ GRID UNIT N ___ E ___

CREW CHIEF L Ston

RECORDER LS + SP

DATE July / 12 / 1989

CENTER POINT COORDINATES

X E 97 Y S 45 Z 125 -35

DIGGING TOOLS shovel, trowel, pick

Context Description (Composition, texture, inclusions) mainly gravel - small cobbles with some silty loam.

Munsell Color 10YR 4/3 Med Brown

STRATIGRAPHY		
Overlaid by	Cx #	301
Overlies	Cx #	303
Cuts	Cx #	
Cut by	Cx #	
Abuts	Cx #	102
Eqvlent to	Cx #	102

INTERPRETATION

GENERAL ARTIFACTS asphalt*, coal?

* - sampled

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.):

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #: ___

PLAN #: ___

Samples Taken:
Flotation ___
Soil ___ Other ___

Form 2

CONTEXT NUMBER 303

SIBG LG

SITE CODE ___ GRID UNIT N ___ E ___

CREW CHIEF LS TONE

RECORDER LS, SP

DATE July / 12 / 1989

CENTER POINT COORDINATES

X E 97 Y S 45 Z 135 -1.6

DIGGING TOOLS sledge, trowel, pick, shovel

Context Description (Composition, texture, inclusions) gravel (small)

Munsell Color 10YR 4/1 Dark Gray

STRATIGRAPHY		
Overlaid by	Cx #	302
Overlies	Cx #	304
Cuts	Cx #	
Cut by	Cx #	
Abuts	Cx #	103
Eqvlent to	Cx #	

INTERPRETATION

asphalt c̄ 0.3 thickness in eastern wall, most of it has been removed. This 303 is probably some sort of drive or parking surface

GENERAL ARTIFACTS

mortar, slag
asphalt (not retained)

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.): 2

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE	19-21	
GENERAL		

DRAWINGS:

SECTION #: ___

PLAN #: ___

Samples Taken:
Flotation ___
Soil ___ Other ___

CONTEXT NUMBER 304 — S1BG LG

SITE CODE ____ GRID UNIT N ____ E ____

CREW CHIEF LSTom

RECORDER WR-GA-SW-CS

DATE July / 13 / 1989

CENTER POINT COORDINATES X E 97 Y S 45 Z 1165 — 1.95

DIGGING TOOLS pick, shovel, trowel

Context Description (Composition, texture, inclusions) Munsell Color 10YR 3/3 Dark Brown

Mostly gravel with a very small amount of silty soil

STRATIGRAPHY		INTERPRETATION
Overlaid by	Cx # 303	
Overlies	Cx # 305	
Cuts	Cx #	
Cut by	Cx #	
Abuts	Cx # 105	
Eqvlent to	Cx # 105	

GENERAL ARTIFACTS: asphalt (not retained), slag (sampled)

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.): 2

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE	22-23	
GENERAL		

DRAWINGS:

SECTION #:

PLAN #:

Samples Taken:
Flotation
Soil Other

CONTEXT NUMBER 305 — S1BG LG

SITE CODE ____ GRID UNIT N ____ E ____

CREW CHIEF LStow

RECORDER LS WR GA JW

DATE July / 13 / 1989

CENTER POINT COORDINATES X E 97 Y S 45 Z 1195 — 2

DIGGING TOOLS Shovel, trowel

Context Description (Composition, texture, inclusions) Munsell Color 10YR 3/2 VDGB

Large rocks (0.4-0.8') with small gravel (slightly silty sand)

STRATIGRAPHY		INTERPRETATION
Overlaid by	Cx # 304	
Overlies	Cx # 306	
Cuts	Cx #	
Cut by	Cx #	
Abuts	Cx # 108	
Eqvlent to	Cx # 108	

GENERAL ARTIFACTS

ARTIFACTS IN SITU

PHOTOGRAPHS (Roll #.):

	B&W	COLOR
VERTICAL		
SECTION		
OBLIQUE		
GENERAL		

DRAWINGS:

SECTION #:

PLAN #:

Samples Taken:
Flotation
Soil Other

APPENDIX III
THE CONTEXT SYSTEM

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APPENDIX 3
THE CONTEXT SYSTEM

Complex strata were a possibility within the project area, so a field recording system that could encompass this situation as well as the large number of finds expected, was required. Another requirement of the system was that it be compatible with computerized data management. It was with these requirements in mind that the field recording system used in this project was selected.

The stratigraphic recording system used at the site was derived from recent developments in British archaeological field methodology. In this system, the term Context is used to represent the minimal unit of stratification. On this project, this was the smallest observable natural stratigraphic deposit within a grid unit. A unique 3-digit Context number was used to identify each Context observed and described in the field. Contexts representing parts or all of strata are treated in exactly the same manner as those representing parts of all of the features. Each Context is given its own identifying Context number when initially described. It can then be interpreted as a feature or part of a stratum at any stage during the excavation or post-excavation stratigraphic analysis. In the case of deposits with a series of lenses or layers within a feature, decimal subdivisions of the Context number were employed (i.e. 397.02), to stress the relationship of these deposits as part of the same feature. This system can easily be used on a site where excavation by arbitrary stratigraphic units has been deemed necessary. The context was also used on this project to record the location of surface finds, both in relatively large areas and individually located artifacts.

The primary record of each Context is the Context or Survey Recording Sheet. Most of these forms should be self-explanatory. All the various slots and boxes were filled in immediately with the appropriate information by the excavator. Particular attention was paid to the accurate recording of the soil texture and inclusions, the Munsell color reading, and the various stratigraphic inter-relationships.

There are a number of advantages in the Context recording system. The use of only one number register to identify all varieties of soil deposits eliminates the premature interpretation of deposits that was necessary with many other recording systems. It is often difficult, if not impossible, to classify soil deposits when they are initially uncovered. Using the Context system, deposits are simply assigned Context numbers and excavated. They can be interpreted or re-interpreted at any time during or after their excavation without any need to change their identifying Context number. This leads directly to the Context system's second advantage. There is no possibility of confusing numbers issued from one register with these from any others if there is only one number register used to record and identify soil

deposits. Another advantage is derived from using this single identifying number not only for the soil deposits and its description, but also for all the artifacts from the deposit during all stages of their processing, analysis and curation. One further advantage is the ability to expand the system. The Context numbers are a potentially infinite sequence, so any size site or survey can be encompassed. The final advantage present here is that the Context system is a digital recording system. As such, it is immediately adaptable for computer entry and numerical data sorting.