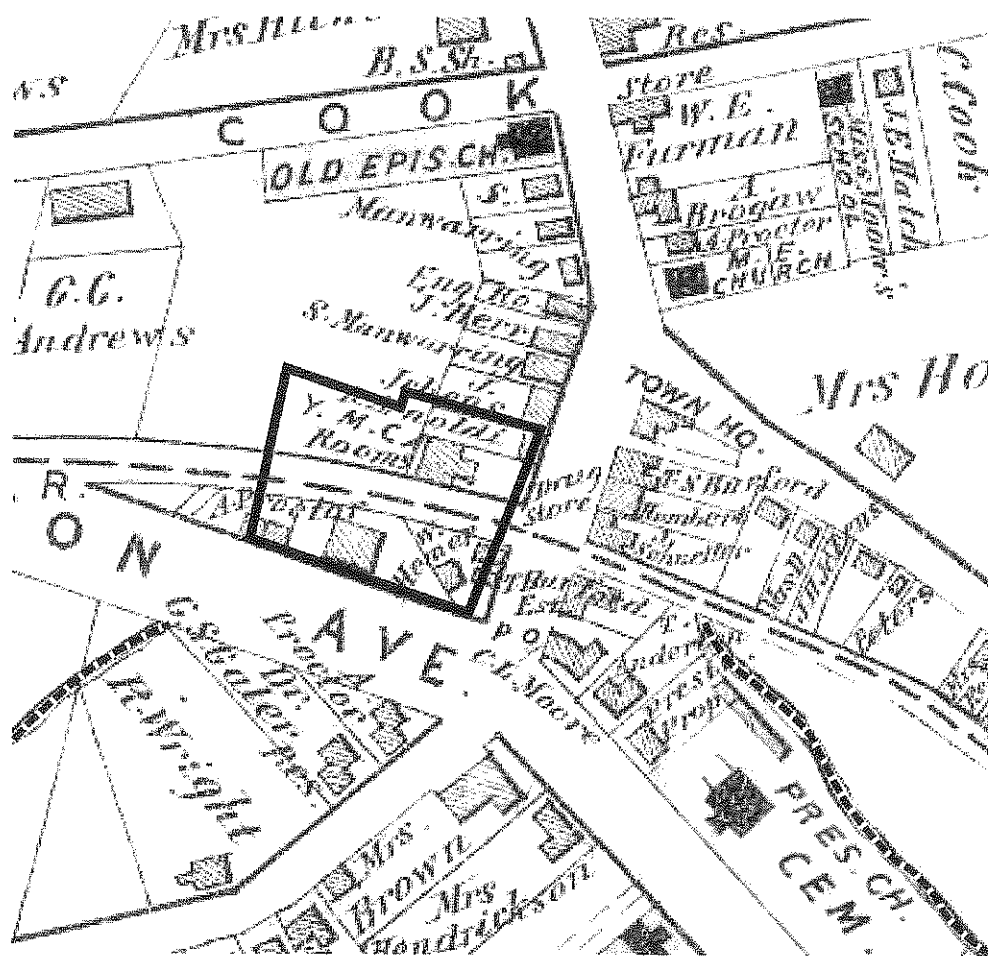


85-15 Queens Boulevard (Block 1549, Lots 28 and 41) Elmhurst, Queens County, New York

1A Documentary Report

BSA Project No. 10BSA060Q



Prepared for 85-15 Queens Realty LLC
Through Page Cowley Architects LLC
Prepared by Joan H. Geismar, Ph.D., LLC
August 2, 2010

1407

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ABSTRACT

This 1A documentary report presents the method and findings of research undertaken to assess the archaeological potential of a private development site identified as 85-15 Queens Boulevard located in Elmhurst, Queens County, New York (Block 1549, Lots 28 and 41) where a 5-story commercial building with underground parking is planned. Although a fresh water brook (Horse Brook) once crossed the site, construction of a short-lived railroad line (the Flushing or White Line, 1873-1876) that paralleled the brook, and commercial and residential structures in the mid- to late-19th century and a bank building and a subway line in the 20th century, indicate that neither Native American nor early historic-era resources are an issue on the eastern part of the site where soil borings are available. However, it is possible that construction elements of the Flushing Line introduced in a wet environment might remain on the western part of the site currently occupied by a Wendy's restaurant and an associated parking lot where minimal development has occurred. Therefore, to determine subsurface conditions on the western half of the site, a review of soil boring data or other subsurface information is recommended when they become available.

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INTRODUCTION

This 1A documentary report presents the method and findings of research undertaken to assess the archaeological potential of a private development site identified as 85-15 Queens Boulevard located in Elmhurst, Queens County, New York (Figure 1). The project site (Block 1549, Lots 28 and 41) encompasses just over three-quarters of an acre (.83) and includes the entire southern part of the project block located on the north side of Queens Boulevard. Reeder Street (Place) is to the west and Broadway to the east (Figure 2). The proposed development, a 5-story commercial building with underground parking, includes a small rear yard to the north. A subway easement crosses the northeast corner of the site (Figure 3).

The report was prepared for 85-15 Queens Realty LLC, the owner, through Page Cowley Architects LLC. The assessment was carried out at the request of The New York City Landmarks Preservation Commission (NYCLPC) to address concerns related to the site's potential for cultural resources that include remains from the colonial town of Newtown through the 19th century as well as prehistoric and early-historic era use and occupation by Native American populations (Santucci 2010). This latter issue undoubtedly relates to Horse Brook, a spring-fed stream that once crossed the project site from the west and ultimately discharged into Flushing Bay to the east. However, research indicated this watercourse, said to provide drinking water to local horses and hence its name, was culverted during the last decade of the 19th century or the first decade of the 20th century (see below) and was ultimately filled in. The potential historic-era issues center around the village of Newtown that included the project site.

A site visit on June 2, 2010, revealed that its eastern half was then in use as a staging area for an off-site, in-progress development on the east side of Broadway, a circumstance that made it difficult to photograph (Figures 4a to 4f). The visit determined that at least part of the site had been highly disturbed by construction of the deep basement of a demolished bank building (see Figure 4f). At this writing, the western half of the site is occupied by a Wendy's restaurant and its surrounding parking lot.

To assess the site's archaeological potential, document research was conducted at New York City agencies and local archives. Among them were the NYCLPC to review relevant reports and the Archives at the Queens Library, the Map Division of the New York Public Library, the Queens County Register's Office, and the Queens Topographic Bureau. Internet resources were also researched.

Research focused on changes in the project site's original topography over time, its development history, and its potential for prehistoric and Contact Period Native American resources. Historical issues addressed in Vincent Seyfried's 1995 book, *Elmhurst, From Town Seat to Mega-Suburb*, proved most helpful as did file maps and plans provided by Alford Clarke, Associate Engineer at the Queens Topographic Bureau. Additional historical maps, mainly from the Map Division of the New York Public Library, also provided useful information, as did a 1997 assessment of known prehistoric and Contact Period sites in Queens County by Eugene Boesch, Ph.D., a document created for the NYCLPC. In addition, newspaper archives proved helpful. The research methods for, and findings of, the 85-15 Queens Boulevard project archaeological assessment are presented below.

NATIVE AMERICAN RESOURCES POTENTIAL

As previously noted, the documented presence of a fresh water stream or brook on the site suggests the archaeological potential for Prehistoric and Contact Period Native American resources since a fresh water source would provide water to humans and the game they hunted. Moreover, while no Native American site was documented in the project area in the aforementioned 1997 Boesch assessment, it does identify a potential sensitivity based on the presence of a former watercourse and associated marshland (Boesch 1997; see Figures 5a and 5b this report). However, given what appears to be a swampy condition without associated high ground and with subsequent development, the likelihood of viable Native American resources diminishes. Ralph Solecki, Professor Emeritus in the Columbia University Department of Anthropology, who has a longtime familiarity with the archaeological potential of the project area and its environs, has also identified the potential for such sites (Solecki and Wisniewski in press:26-27), but indicated in a personal communication that any resource viability in the project area is long gone (Solecki 2010:personal communication). Moreover, as shall be seen, sometime between 1892 and 1903, Horse Brook was channeled on the project site, an alteration that undoubtedly caused extensive disturbance. It is perhaps noteworthy that cultural resource assessments of nearby development sites do not document any prehistoric potential (Geismar 1990; Historical Perspectives 2007, 2006, 1988; Key Perspectives 1989; McLean 2005).

SITE TOPOGRAPHY

Maps and plans document modifications to the project area during the historic era. Perhaps most telling is an 1887 survey, the earliest available to date, carried out in anticipation of the channeling of Horse Brook in the project area and particularly on the project site (Hyatt 1887-1888; Figure 6). It was a long-planned and hotly discussed alteration, one that straightened Horse Brook as it crossed the site, changing its slightly meandering, apparently shallow course to a wider, deeper, straighter ditch. At Broadway, the grade was to be lowered from elevation 12.8 to elevation 7.50, or 5.8 feet (Hyatt 1887-1888; see Figure 6). Nineteenth-century-development had caused the water in the brook to stagnate, and what had been described as a “rural stream, pure and unpolluted... sufficiently cold and fast running to provide a habitat for trout” (Seyfried 1995:57) had been fouled.

As documented in newspaper articles, and beginning at least by 1885, human waste from backyard privies and trash from adjacent properties that clogged the brook had prompted the call for its reconfiguration (*Newtown Register* 1885a, 1885b). At first heartily supported by adjoining property owners (*Newtown Register* 1890), this support rapidly dissipated once it became known that property assessments would be required (*Brooklyn Eagle* 1891; *Newtown Register* 1892a). Despite intensive research, no exact date has been established for the brook’s realignment. There is no evidence of any realignment on either an 1891 file map (Sackett Moore 1891; not illustrated) or an 1893 insurance map (Sanborn 1893; Figure 7). However, it may have occurred by 1895 when the drainage commission behind the project apparently was disbanded (*Newtown Register* 1895).

A major flood in 1903 that caused extensive damage to properties on and near the project site when the Horse Brook culvert under Broadway became completely clogged (*Newtown*

Register 1903) may have provided the impetus to finally carry out the realignment (or it may have reflected new but shoddy engineering). Although it is unclear whether the flood occurred before or after the brook's alteration, its new configuration on the project site is finally indicated on the 1903 Hyde map (Figure 8).

When site elevations noted on the profile provided on the 1887-1888 survey (see Figure 6) are compared with those from 1904 (Queens Final Map 1904; Figure 9), it appears that approximately 7.5 feet of fill were later introduced over the new grade proposed at Broadway (proposed new elevation of 7.5 in 1887-1888 compared to elevation 15.0 in 1904). Today, soil boring data from the vacant eastern half of the site document 2.8 to 13.0 feet of fill above a relatively high water table (Carlin-Simpson 2002; see Table 1; also Appendix A for Soil Boring logs). At this writing, no soil boring data are available for the site's western half, currently the site of a Wendy's Restaurant and associated parking.

TABLE 1

Boring #	Elevation of Existing Ground Surface	Bottom Depth/Elevation Of Fill	Groundwater Depth/Elevation	Planned Subcellar Floor Elevation (-24 feet)	Foundation Bearing Material (Elevation -5.0)
B-1	+20.0	10'6"/+9.6	9'0"/+11.0	-4.0	Medium stiff varved Clay & Silt
B-2	+20.5	7'6"/+13.0	9'6"/+11.0	-4.0	Very dense silty gravelly sand
B-3	+19.4	13'0"/+6.4	9'0"/+10.4	-4.0	Dense silty gravelly sand
B-4	+19.8	11'6"/+8.3	11'6"/+8.3	-4.0	Very dense silty gravelly sand
B-5	+10.3	2'8"/+7.6	2'0"/+8.3	-4.0	Very dense silty gravelly sand
B-7	+19.1	10'0"/+9.1	10'6"/+8.6	-4.0	Very dense silty gravelly sand
B-8	+19.3	10'0"/+9.3	11'0"/+8.3	-4.0	Very dense silty gravelly sand

- Note: 1. Boring B-6 was eliminated from this study
 2. Assumed first floor elevation +20.0

(Adapted from Carlin-Simpson 2002:4)

HISTORIC-ERA DEVELOPMENT

It has been noted that the intersection of Broadway and Queens Boulevard, that is, the southeast corner of the project site, was once at the center of the historic village of Newtown (Seyfried 1995:44). Revolutionary War activity is documented to the west, but given what apparently is its original swampy condition, it is not surprising that none is documented directly on the project site. By the mid-19th century, Broadway just north of the project site was the location of two churches, the town hall, the town's first firehouse, a school, stores, and many privately owned homes and barns. Northwest of the site was a public burying ground (see Figure 6). The area's development is shown on maps from 1852 (Riker 1852; Figure 10), 1859 (Walling 1859; Figure 11), 1873 (Beers 1873; Figure 12), , and 1891 (Anon. 1891; Figure 13). It also included John Heeg's "Broadway House," a hotel and stores located on the southeast corner of the site. At that location from 1890 until at least 1930 (Seyfried 1995:49, 103), Broadway House stood on land Heeg had purchased in 1889 (LD 774:62). Long before this, however, in 1866, site development included the "rooms" of the Young Men's Christian Association (Liber of Deeds [LD] 561:127) in the northeast corner of the project site and then enlargement of this facility a year later (LD 293:315; see Beers 1873, Figure 12). This property was sold in 1874

(LD 438:303). Sometime prior to 1893, Arcanum Hall, the headquarters of a benevolent society, was either an expansion of the YMCA rooms or a new construction.

Most informative of the site's 19th-century development is the 1873 Beers map that shows many of the above-mentioned structures (see Figure 12). It also shows the path of the short-lived (1873-1876) Flushing Railroad, locally known as the White Line, on the project site. The line ran between Long Island City to the west and Flushing Bay to the east where ferry service to Lower Manhattan was available (Seyfried 1995:23). The rail line followed the north bank of the original course of Horse Brook so closely on the project site that the brook disappears on the 1873 Beers map in order to show the trajectory of the rail line at its inception (see Figure 12).

While records of Newtown's Highway Commission note that the south bank of Horse Brook was delineated by a stonewall in 1889 (Highway Commissioners 1885-1897:300-301), the aforementioned 1891 map of Newtown indicates the proposed channeling of Horse Brook had not yet occurred. This is more specifically documented in a verified map filed in the Queens Topographic Bureau, "In the matter of the application of D. Sackett Moore and others for the drainage of certain low and swampy lands in the Town of Newtown County of Queens and State of New York," dated June 29, 1891, and filed on July 15 (Sackett Moore 1891; not illustrated). As mentioned previously, the first map to document the brook's realignment in the project area is the 1903 Hyde Map (see Figure 8), but the channeling of Horse Brook obviously had occurred before this, and public water was available to Newtown residents by 1894 (Seyfried 1995:63), both events that effect the project site's historic-era archaeological potential. Although authorized in 1897, political maneuvering delayed the introduction of Newtown's sewers until 1905 (Seyfried 1995:85). As noted previously, prior to the introduction of the sewer, Horse Brook was the recipient of human waste from buildings along its course.

Old Newtown names, such as Hendrickson, an early landowner, and Manwaring are associated with the site and project area. By the mid to late 19th century, subdivided properties just north of the site were owned by Manwaring's heirs (Liber of Wills [LW] 1865:474), while directly on the site, undeveloped property belonged to Henry Skelton, the town's first undertaker who was involved in the Arcanum Society, the benevolent society that, in the late 19th century, provided insurance and burial facilities to its members.¹ Like a number of the site's property owners, Skelton participated in civic matters, serving as a member of the drainage commission involved in channeling Horse Brook and as a director of the Citizens' Water Supply Company that brought water to the town in 1894 (Seyfried 1995:63; Laughlin 1938; *Brooklyn Eagle* 1901). Another community stalwart was John Heeg whose Broadway House stood on the southeast corner of the site by 1890 (*Newtown Register* 1892b; Seyfried 1995:49). According to the 1868/1869 *Directory for Long Island*, developed lots on the site were then owned by R. Arnoldi, a harness maker, and A. Proctor, a wheelwright (Curtin 1868/1869), while Thomas Manwaring's children—George Manwaring and Mary Manwaring Lewis—lived nearby on Broadway (Curtin 1868/1869; Hyatt 1887-1888; see Figure 6).

¹ The "Royal Arcanum is described as "a fraternal benefit life insurance company founded in Massachusetts in 1877" that included 28,111 members in 1994. (http://www.stichtingargus.nl/vrijmetselarij/arcanum_en.html)

In addition to the channeling of Horse Brook, the many episodes of lot development, and the aforementioned Flushing Railroad, other major site upheavals included the widening of Broadway in about 1930 that necessitated at least partial demolition of John Heeg's "Broadway House" (approximately 20 feet were taken for the widening at the Broadway-Queens Boulevard intersection) as well as the razing of other buildings on the west side of Broadway (see Damage Map 1927/1929; Figure 14). At the same time, the width of Thomson Avenue, renamed Queens Boulevard, was doubled from 100 to 200 feet, but its expansion, which was limited to the south side of the road, apparently did not affect the project site. Although Arcanum Hall and its neighbors on the west side of Broadway were razed, a truncated and altered Broadway House may have remained standing. Subsequent construction on this part of the site included an "Auto Laundry" (car wash) built sometime between 1932 and 1951 (see Figure 15c) where a structure, possibly a barn or double house, is documented in 1873 (see Figure 12).

Historical maps indicate that several frame structures standing on the western part of the site by 1873 (Beers 1873; see Figure 12) were gone by 1893 (Sanborn 1893; see Figure 7); others, lacking historical or archaeological potential, were built nearby (Sanborn 1914, 1932, 1932 updated to 1951, 1932 updated to 1982; Figures 15a to 15d). In 1966, a now-demolished bank stood in part on the former Broadway House site (BSA 2010:35) and, in 1979, the Wendy's Restaurant in operation at this writing was erected on the western half of the site (BSA 2010:33). (See Figures 16a to 16e for historical photos of the project site).

Although the Flushing Line operated on the site from 1873 to 1876, it wasn't until 1880 that the last of its tracks were removed in the project area (Seyfried 1995:41). It is possible that remnants of this short-lived rail line may survive archaeologically on the western half of the site where development has been minimal. It is also possible that structural accommodations made to support the rails and the weight of the trains in the wet environment associated with Horse Brook may also survive on this part of the site. However, currently no soil borings or other subsurface data are available to assess the potential sensitivity of the project site's western half.

FINDINGS AND RECOMMENDATIONS

The development history of the site suggests disturbance to the original terrain would have eliminated any viable remains of Prehistoric or Contact Period Native American sites, and there is no evidence of early historic-era or early-19th century development. Site conditions and documented elevation changes associated with channeling Horse Brook and filling adjacent wetlands in addition to mid- to late-19th- and 20th-century-development that included a short-lived railroad line across the site, construction of a hotel, stores, houses and/or barns, YMCA rooms, a benevolent society hall, a subway, and a bank building suggest that neither Native American nor historic-era resources are an issue on the eastern part of the site. This also seems true of the site's western half although it is possible that evidence of construction elements of the Flushing Line (White Line) built in 1873 might remain on this part of the site. Therefore, it is recommended that soil boring data or other subsurface information be reviewed when they become available for the western half of the site.

BIBLIOGRAPHY

Anon., 1938. *Historical Collections of the Borough of Queens, New York, City*. Copied from the Original Reports in the Topographical Bureau of the Borough. WPA Project 465-97-3-20. V.14, Roads. Long Island Collection, The Queens Borough Public Library, Jamaica, New York.

Beers, F.W., 1873. *Atlas of Long Island, New York City*. From recent and actual surveys under the supervision of F.W. Beers. Plate 51, 52 Newtown, Town of Newtown, Queens County. Beers, Comstock, & Cline, New York.

Boesch, Eugene J., 1997. Archaeological Evaluation and Sensitivity Assessment of the Prehistoric and Contact Period Aboriginal History of Queens, New York. Prepared for the New York City Landmarks Preservation Commission. New York. June 15, 1997.

Brooklyn Eagle, 1901. Newtown Farms Drained by Citizens' Company. January 22, 1901:7.

Brooklyn Eagle, 1891. Newtown Taxpayers Indignant. December 29, 1891:5.

BSA Application, 2010. City of New York, Board of Standards and Appeals. Application for 85-15 Queens Blvd A.K.A. 51-35 Reeder Street. Application No. 401400239. By Eric Palatnik, P.C. for 85-15 Queens Realty LLC. March 12, 2010.

Carlin-Simpson, 2002. Report on Subsurface Soil and Foundation Investigation. Prepared by Carlin-Simpson & Associates, Consulting Geotechnical and Environmental Engineers. Prepared for 85-15 Queens Blvd. Realty, LLC. February 25, 2002.

Chan, Anthony, 2010. Proposed Site Plan. 85-15 Queens Blvd (A.K.A 51-35 Reeder Street), 85-15 Queens Blvd, Elmhurst, NY. Anthony Chan, Architects. 3/10/2010.

_____, 2009. Site Survey and Other Plans. 85-15 Queens Blvd (A.K.A 51-35 Reeder Street), 85-15 Queens Blvd, Elmhurst, NY. Anthony Chan, Architects. 10/12/09.

Curtin's Directory, 1868/1869. Newtown. Queens City listed in Curtin's Directory for Long Island. Internet Resource: www.bklyn-genealogy-info.com/Queens/1868.LICity.html.

Damage Map, 1927/1929. On file. Queens Topographic Bureau, Queens Topographic Bureau, Queens Borough President's Office. Forest Hills, New York.

Geismar, Joan H., 1990. Addendum to the Archaeological Documentary Study for the St. John's Queens Hospital Proposed Parking Garage, Block 2860, Lots 16 and 25. CEQR No. 89-167Q. Prepared for Catholic Medical Center of Brooklyn and Queens, Inc. Prepared by Joan H. Geismar, Ph.D., August 1990.

BIBLIOGRAPHY (continued)

Haynes Land Surveyors, 2009. Site Suvey. Haynes Land Surveyors, Syosett, New York. September 10, 2009.

Highway Commissioners, 1885-1897. Drainage, Winfield Valley, 1889. Town of Newtown, Highway Com'Rs. Pages 289-306. Vol. I, Lot 14. On file. Queens Topographic Bureau, Queens Borough President's Office. Forest Hills, New York.

Historical Perspectives, 2007. Archaeological Documentary Study, Elmhurst Zoning Map Change, Block 1600, Lots 61, 80, 86, 99, 110 and 130, 4510 94th Street, 9323, 9205 and 9123 Corona Avenue, and 4323 91st Place, Elmhurst, Queens County, New York. CEQR #05DCP093Q. Prepared by Historical Perspective, Inc. Prepared for Einbinder and Dunn, LLP. October 2007.

_____, 2006. Phase 1A archaeological Assessment, SCA New High School Facility/Art and Leather Factory Building, Block 1600, Lot 61, 45-10 94th Street, Elmhurst, Queens County, New York. Prepared by Historical Perspectives, Inc. Prepared for AKRF, Inc. January 2006.

_____, 1988. Archaeological Assessment Report for the Board of Education School Site 8, Queens Boulevard, Ireland and Hillyer Streets. CEQR 88-130Q. Prepared by Historical Perspectives, Inc. Prepared for Parsons Brinckerhoff Quade & Douglas, Inc. December 9, 1988.

Hyatt, Cornelius, 1887-1888. Map and Profile showing the land proposed to be drained and the location and direction of the ditch through the same &c. Surveyed and drawn 1887 & 1888 by Cornelius Hyatt, Surveyor. Filed September 1888. No.- 409 (old); New No. 679 Dr. 57. On file, Queens Topographic Bureau, Queens Borough President's Office. Forest Hills, New York.

Hyde, E. Belcher, 1903. *Atlas of the Borough of Queens, City of New York*. Volume 2, Plate 18. E. Belcher Hyde, New York.

Key Perspectives, 1989. An Archaeological Documentary Study for the St. Johns Queens Hospital Proposed Parking Garage, Block 2860, Lots 16 and 25, CEQR Project Number 89167Q. Karen Rubinson, Ph.D., S.O.P.A., Director. Key Perspectives, New York, New York. May 15, 1989.

Laughlin, Jas., 1938. Reinhold A. Skelton, Elmhurst. In *Historical Collections of the Borough of Queens, New York City*. Copied from the Original Reports in the Topographical Bureau of the Borough. WPA Project 455-97-3-20. V.2, Newtown. Long Island Collection, The Queens Borough Public Library, Jamaica, New York.

Liber of Deeds (LD), Misc. On file. The Register's Office, Queens Business Center, Jamaica, New York.

Liber of Wills (LW), Misc. On file. The Register's Office, Queens Business Center, Jamaica, New York.

BIBLIOGRAPHY (continued)

McLean, Jo-Ann, 2005. Phase 1a Archaeological Investigation – Documentary Research and Sensitivity Assessment of the 90-15 Corona Avenue Project Area, Elmhurst, Borough of Queens, New York City. Conducted by Jo-Ann McLean Inc. Archaeological Consultants. Prepared for Peter G. Geis, Cozen O'Conner, Attorneys. October 2005, Revised August 200, Revised September 2006.

Newtown Register, 1903. The Storm in Newtown. Corober 15, 1903. 5:5.

_____, 1895. Editorial column: Thursday April 25, 1895. 4:1.

_____, 1892a. Fighting the Drainage Assessments: The Newtown Taxpayers' Association Resolve Upon a Course of Action. February 18, 1892. 5:6.

_____, 1892b. A Flattering Record: Thursday March 31, 1892. 4:2.

_____, 1890. Newtown Drainage Commission: February 6, 1890. 4:2.

_____, 1885a. Horse Brook: Meeting of the Health Board. June 18, 1885. 4:5.

_____, 1885b. Horse Brook: June 4, 1885. 5:3.

NYPL Digital Library, 1923. Queens: Queens Boulevard – Broadway (1923). Image ID: 727705F. <http://digitalgallery.nypl.org/nypldigital/dgkeysearchdetail.cfm?trg=1&strucID=417521&imageID=727705F&total=15&num=0&word=broadway%20and%20queens%20Boulevard&s=1¬word=&d=&c=&f=&k=0&lWord=&lField=&sScope=&sLevel=&sLabel=&imgs=20&pos=9&c=w>.

Queens Final Map, 1910 updated to 1931. Contours 1904. On file. Queens Topographic Bureau, Queens Borough President's Office. Forest Hills, New York.

Riker, James, Jr., 1952. *The Annals of Newtown in Queens County, New York*. Hunterdon House, Lambertville, N.J. 1982 Reprint of 1852 book published by D. Fanshaw.

Sackett Moore, D., 1891. In the matter of the application of D. Sackett Moore and others [not named] for the drainage of certain low and swampy lands in the Town of Newtown County of Queens and State of New York. Maps referred to in a commissioners [sic] statement verified June 29th 1891 and filed herewith. Dated July 11th 1891. Lucien Knapp, Oliver H. Perry, John E. Backus. Traced by K. I. (?) Henderson, April 1913. Checked by Thos. F. Wald. File No. 1180, July 15, 1891. New No. 2282 Dr. 41.

Sanborn, 1932 updated to 1982. *Sanborn Insurance Maps*. Queens County, New York. The Sanborn Map Company, New York.

BIBLIOGRAPHY (continued)

_____, 1932 updated to 1951. *Sanborn Insurance Maps*. Queens County, New York. The Sanborn Map Company, New York.

_____, 1932. *Sanborn Insurance Maps*. Queens County, New York. The Sanborn Map Company, New York.

_____, 1914. *Sanborn Insurance Maps*. Queens County, New York. The Sanborn Map Company, New York.

_____, 1893. *Sanborn Insurance Maps*. Queens County, New York. The Sanborn Map Company, New York.

Santucci, Gina, 2010. Environmental Review, Project 85-15 Queens Boulevard. The City of New York City Landmarks Preservation Commission. 4/6/2010.

Seyfried, Vincent F., 1995. *Elmhurst, From Town Seat to Mega-Suburb*. Queens Community Series. Vincent A. Seyfried, Garden City, New York. March 1995.

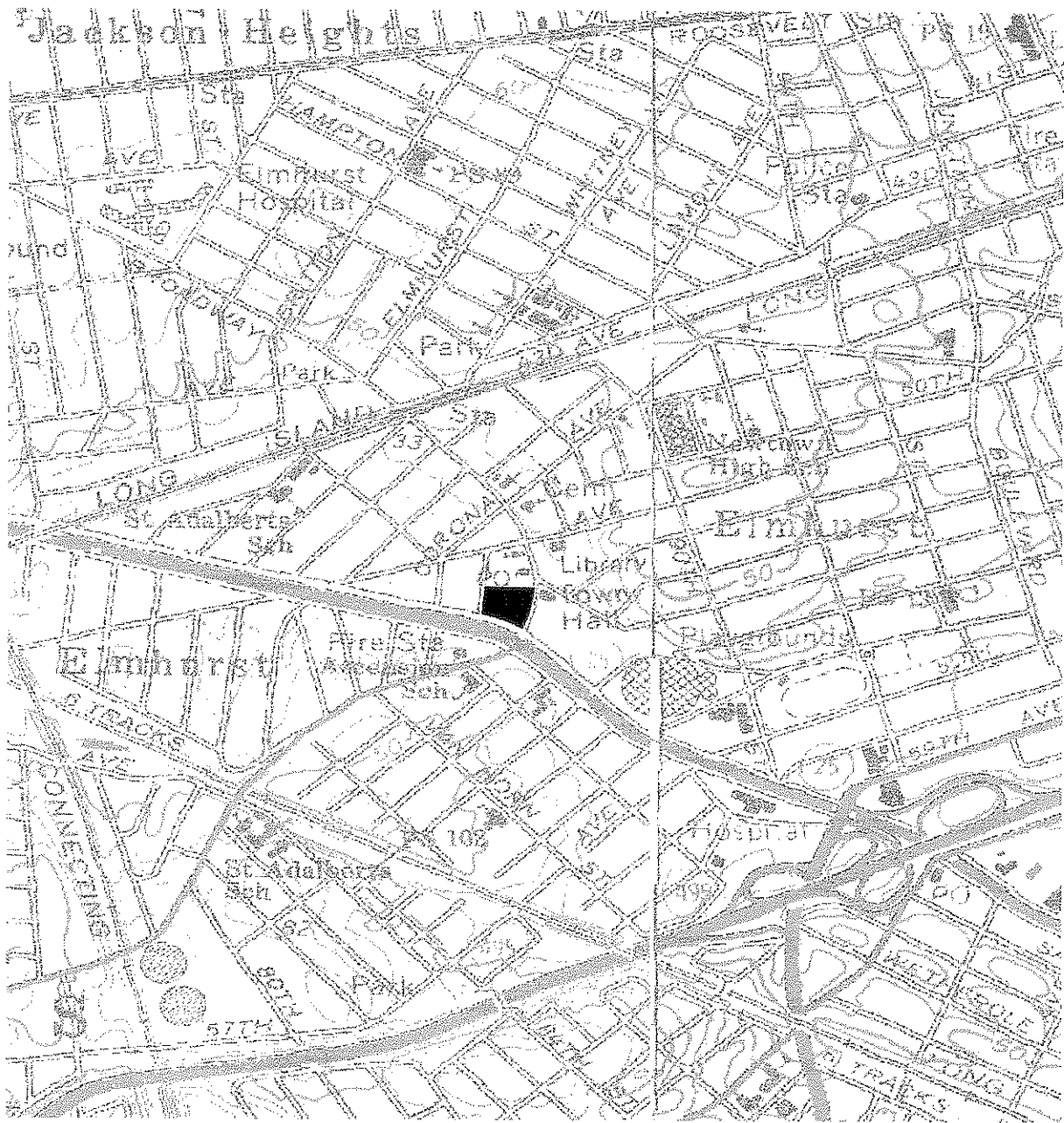
Solecki, Ralph, 2010. Personal communication. Professor Emeritus, Department of Anthropology Columbia University, New York, New York.


Solecki, Ralph and Stanley Wisniewski, in press. *The Archaeology of Maspeth, Queens, Long Island*. Monograph, New Series, New York State Archaeological Association.

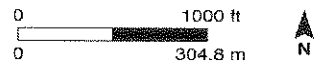
USGS, 1979. Brooklyn Quadrangle 1967, Photo Revised 1979. United States Geological Survey, Reston Virginia.

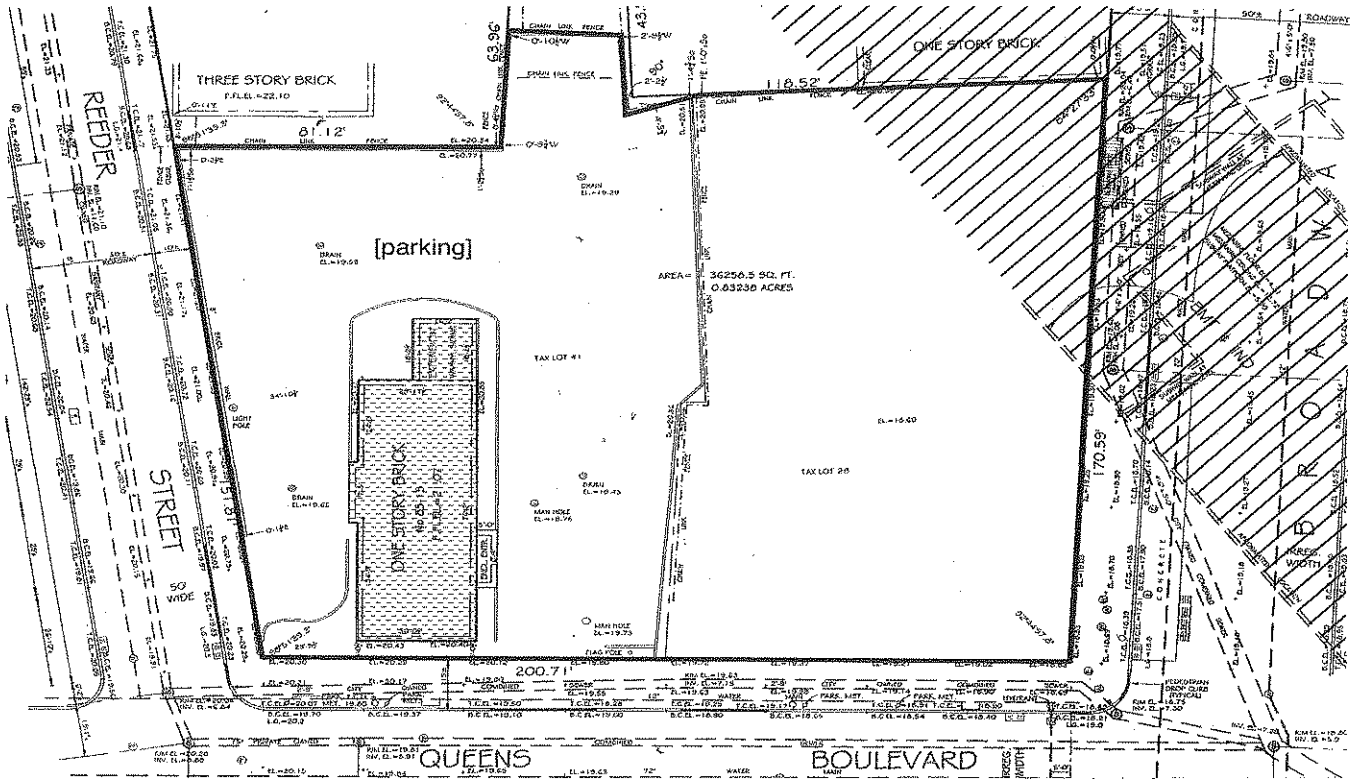
Internet Resource: Freemasonry and Fraternal Organizations.
http://www.stichtingargus.nl/vrijmetselarij/arcanum_en.h.




FIGURES

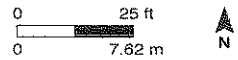


 project site

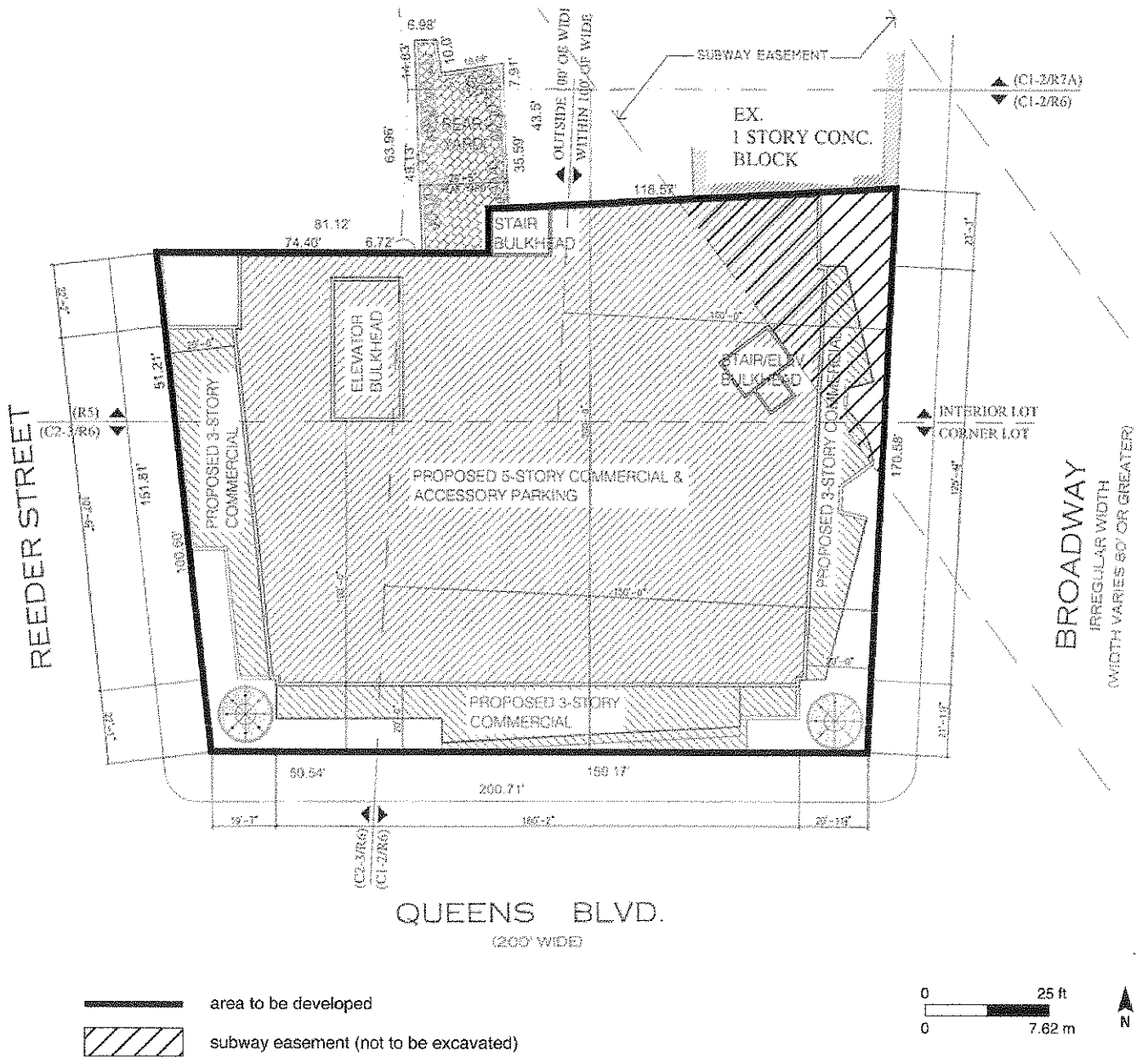


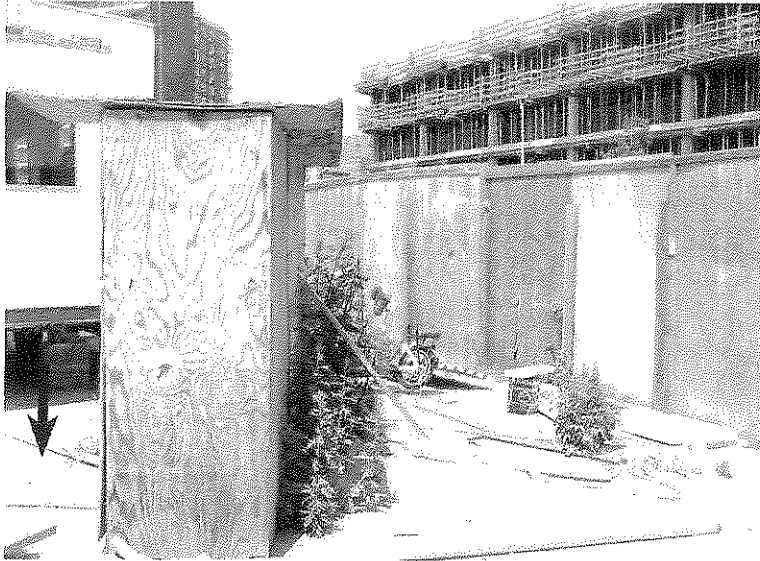


-  project site
-  subway easement (Chan 2009)
-  Wendy's Restaurant



* the 2010 site plan shows some variation (see Figure 3)





4a View northeast on the project site with development across Broadway in background. Floor of former bank building is to the left (arrow). (Geismar 6/2/10)



4b View north past construction trailers on site. (Geismar 6/2/10)



4c View toward Wendy's Restaurant (arrow) on the western half of project site. (Geismar 6/2/10)



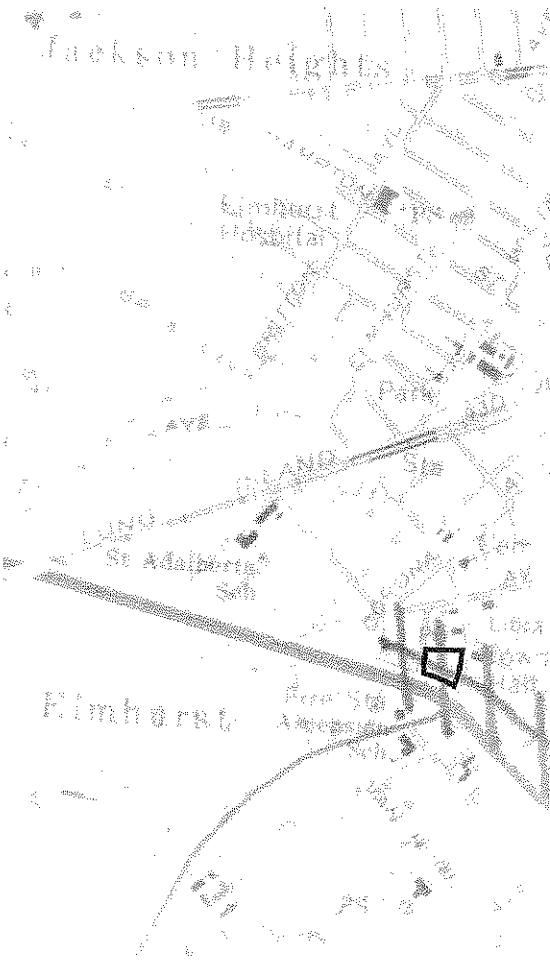
4d Composite view west, north and east of the eastern half of the project site. Wendy's parking lot is visible to the left through the chain-link fence (arrow). (Geismar 6/2/10)



4e Floor remnants of a former structure in the northeastern corner of the project site. (Geismar 6/2/10)

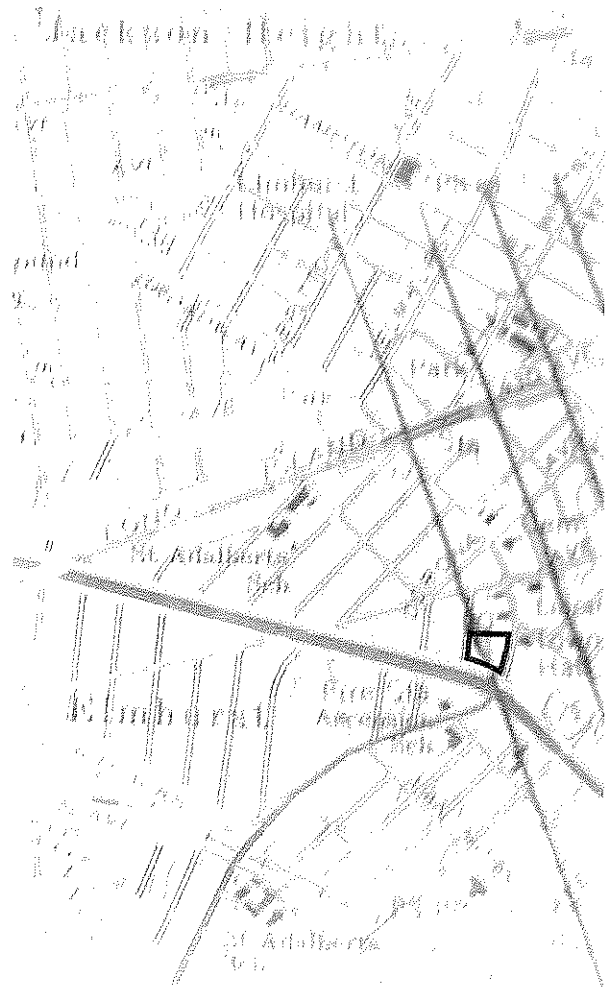


4f View into the basement of the former 1966 bank building on the corner of Broadway and Queens Boulevard. (Geismar 6/2/10)




5a Water Courses (Boesch 1997:3f)

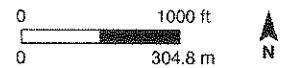
(blue diagonal lines indicate former water course)

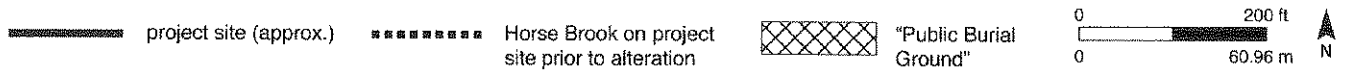
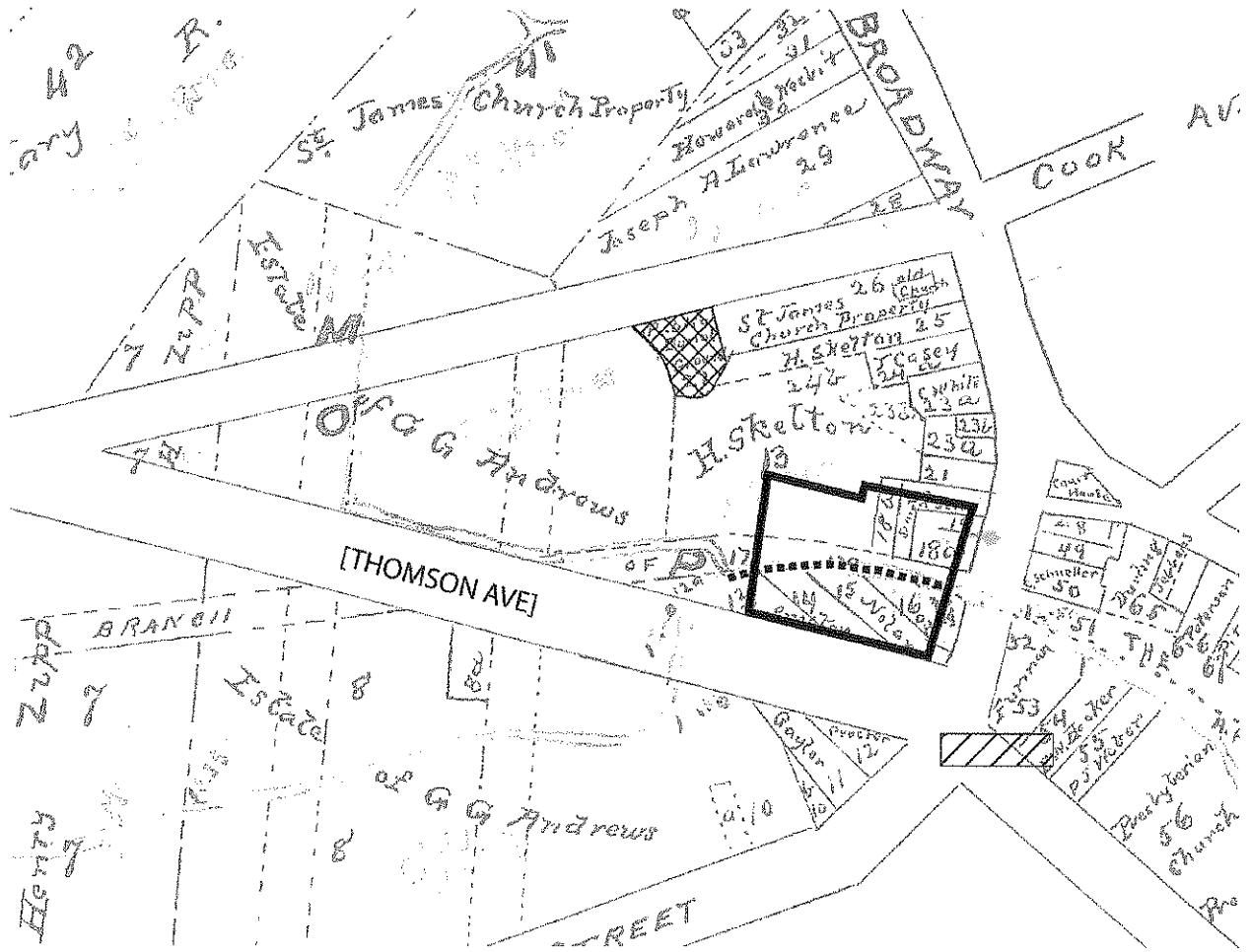


5b Potential Sensitivity (Boesch 1997:4f)

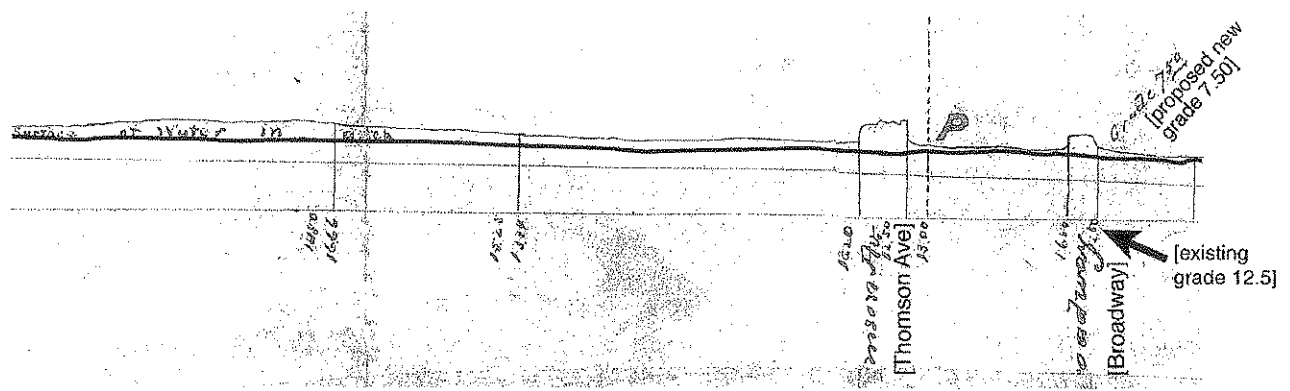
(red diagonal lines indicate area of potential sensitivity)

 project site

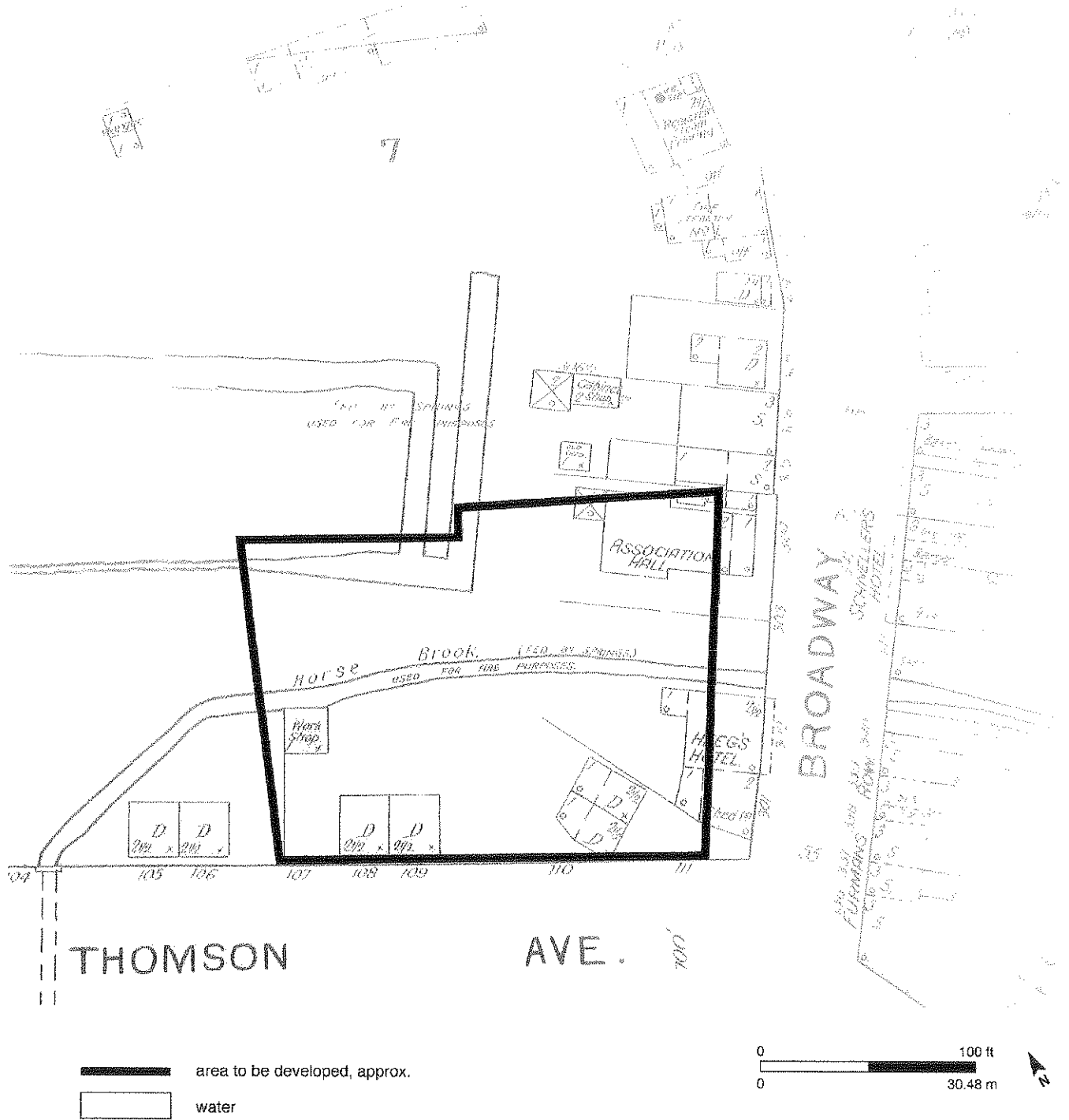


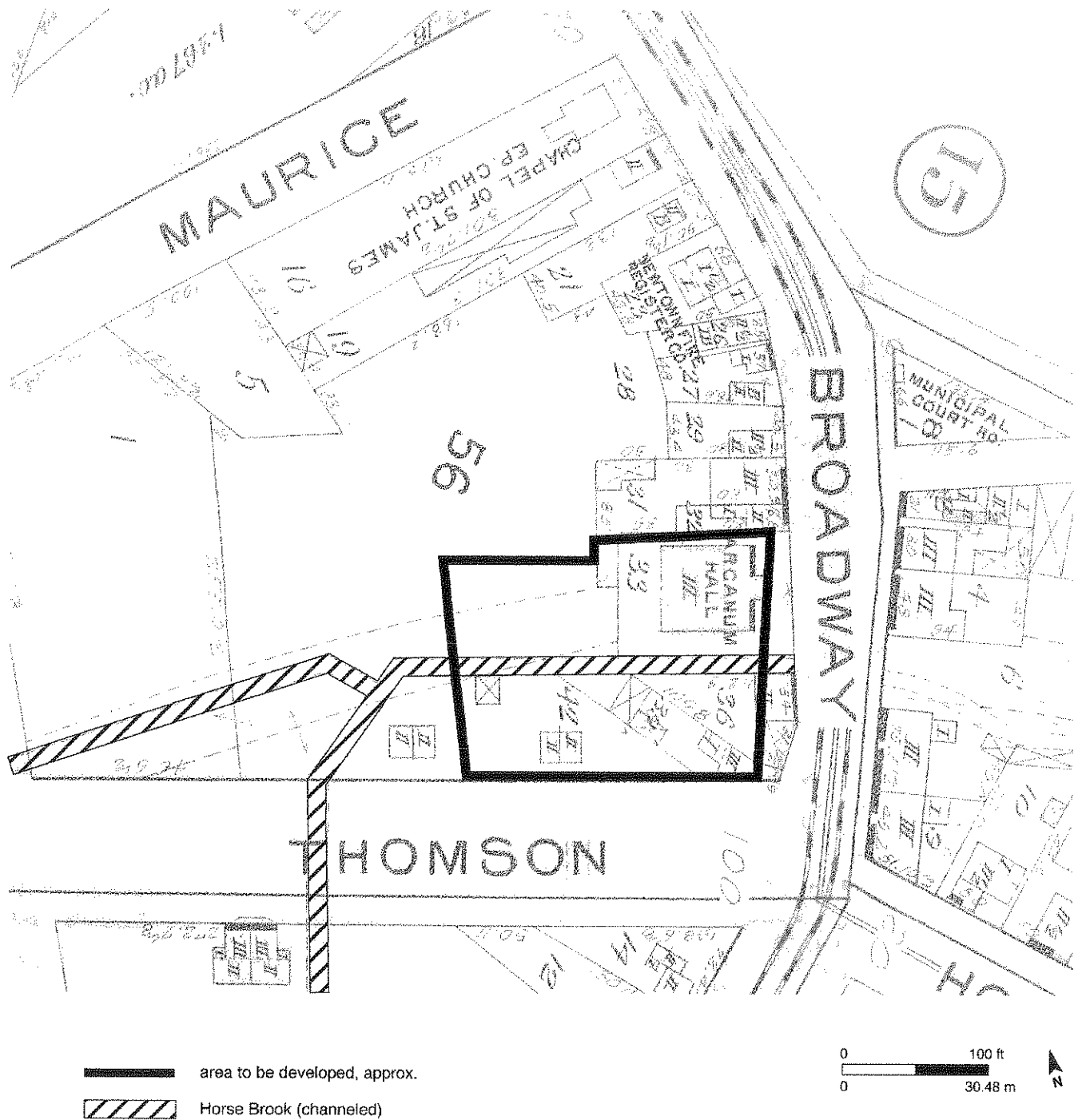


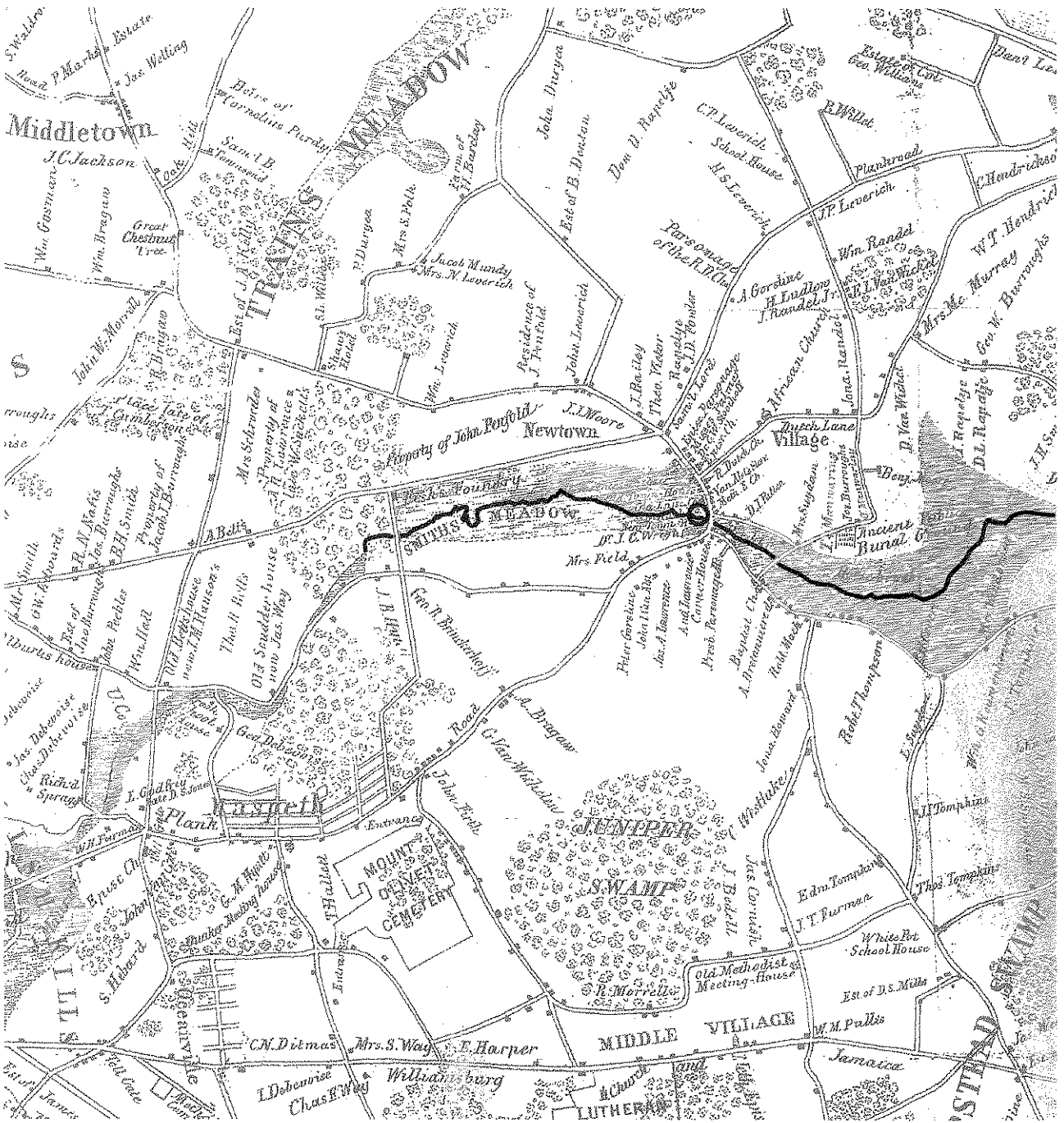
6a Plan






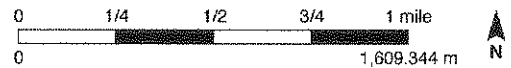
6b Profile

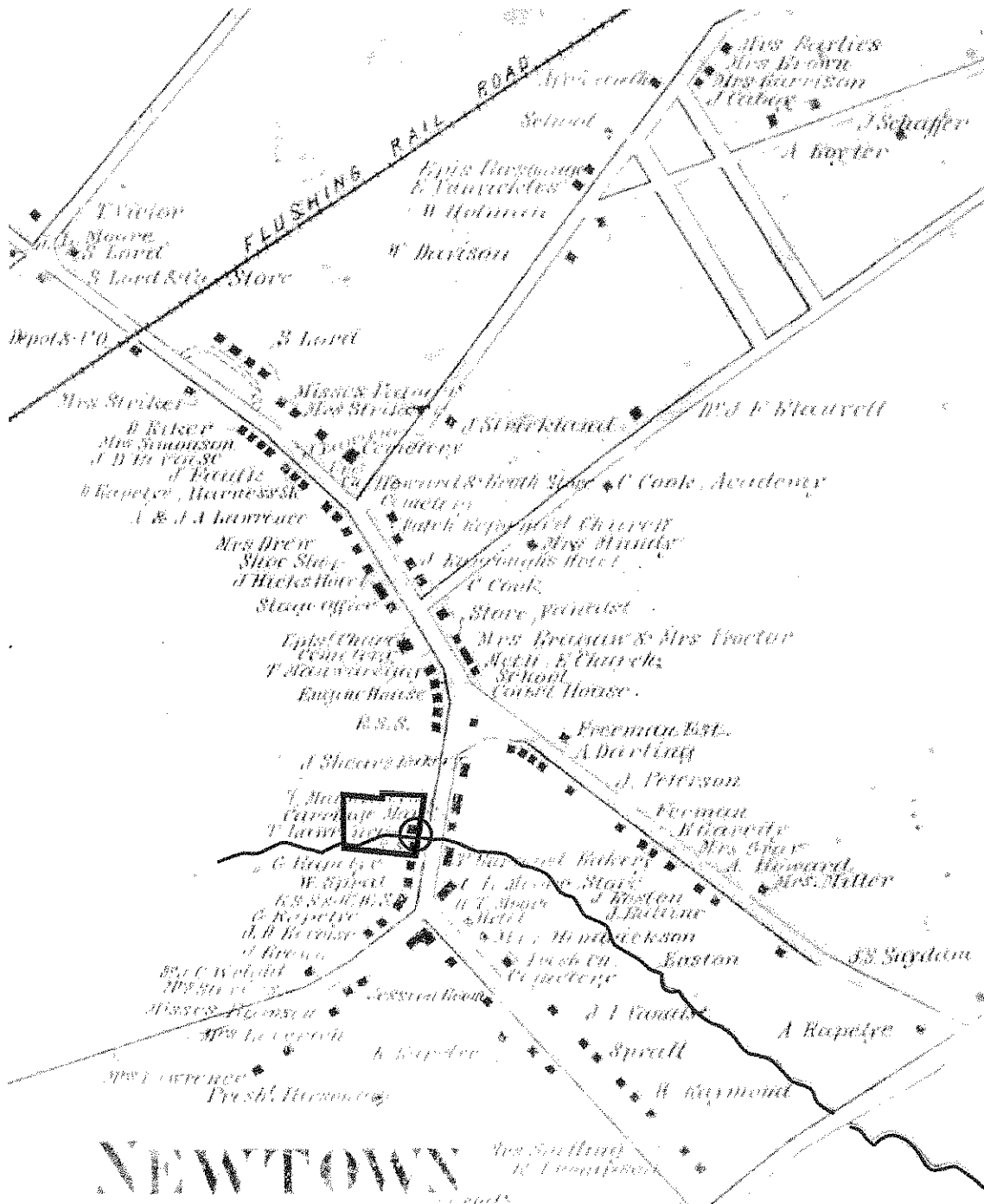





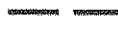



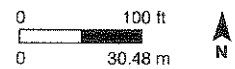
-  area to be developed, approx.
-  Horse Brook
-  swamp

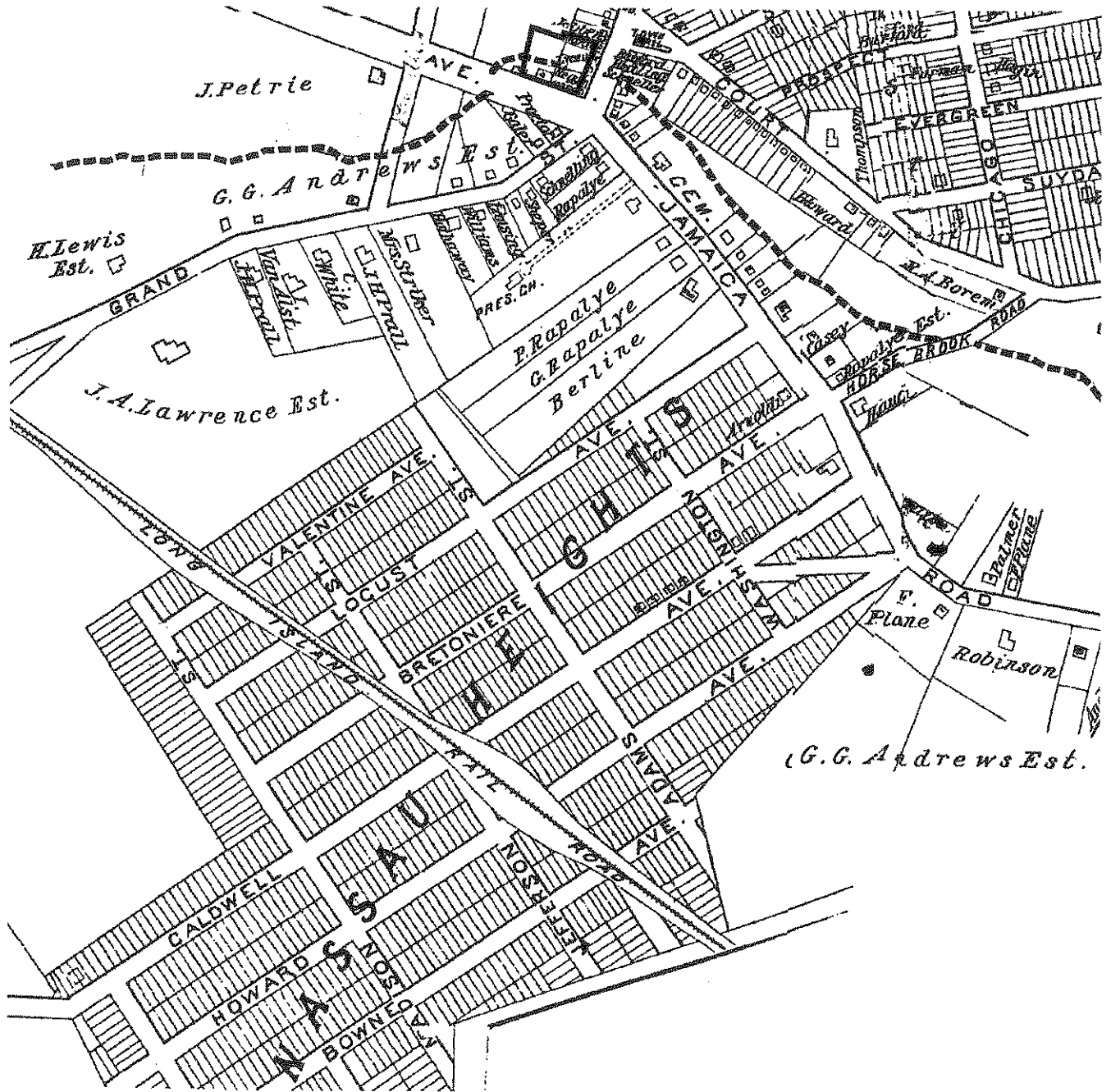







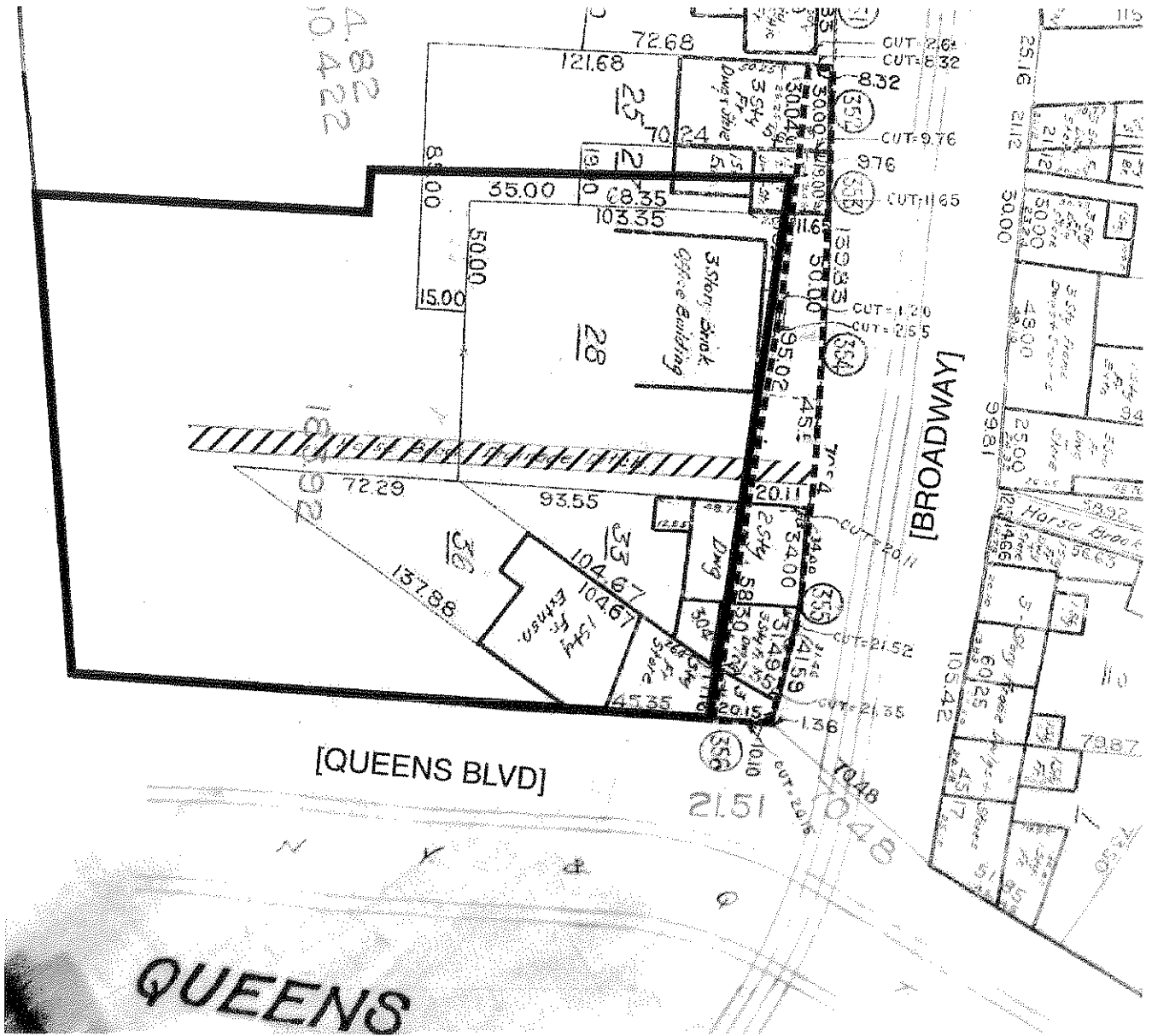
-  area to be developed, approx.
-  1873-1876 Flushing Line (The White Line)
-  Horse Brook



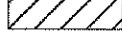


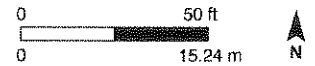


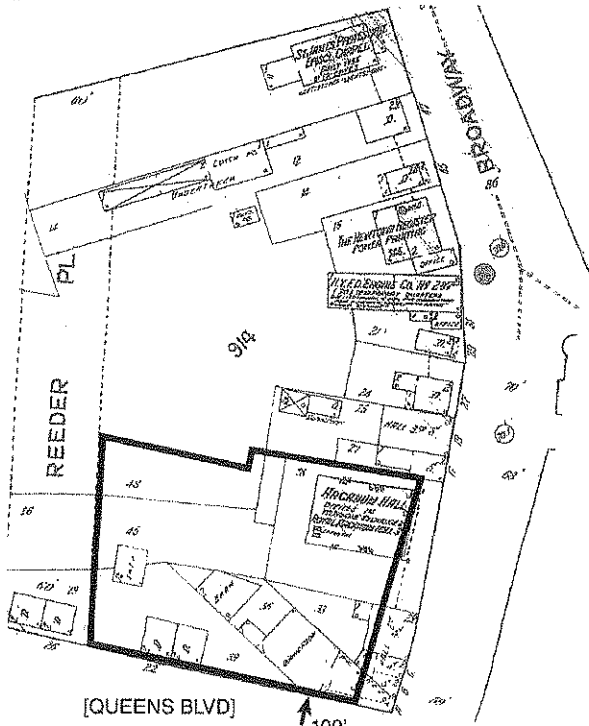
————— area to be developed, approx.
 - - - - - Horse Brook

no scale 

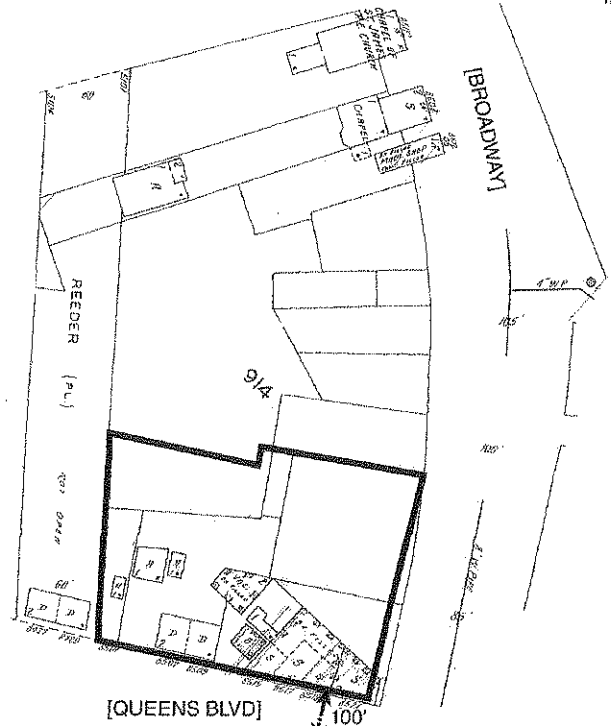


-  area to be developed, approx.
-  area to be taken
-  "Horse Brook Drainage Ditch"

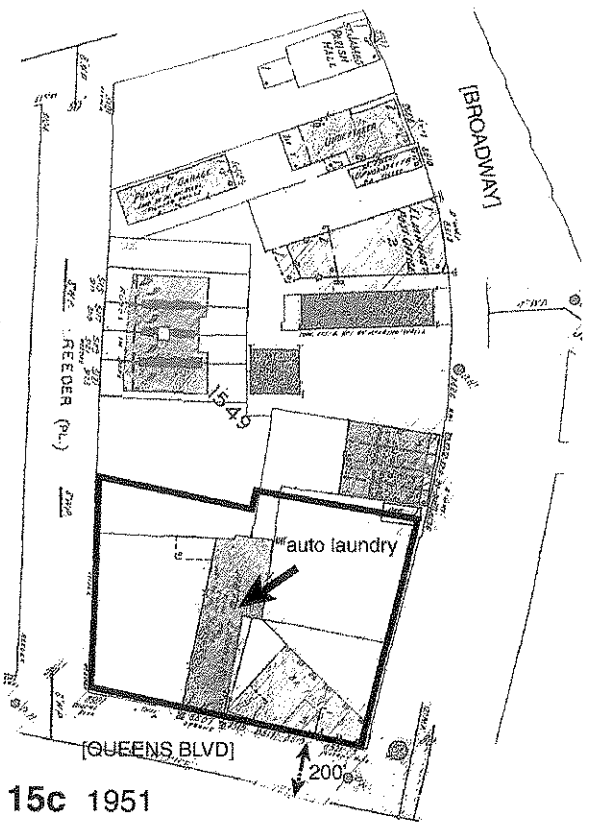




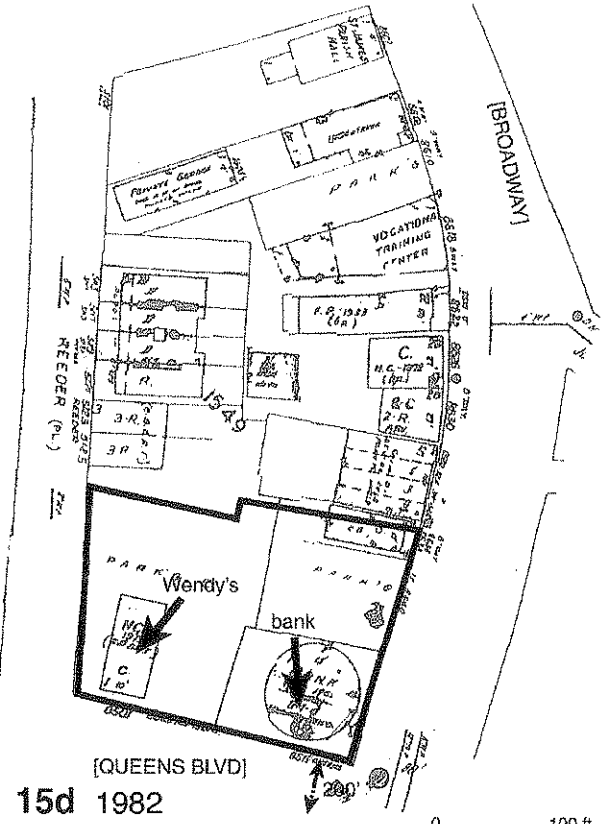
15a 1914



15b 1932

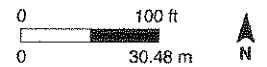


15c 1951



15d 1982

— area to be developed, approx.





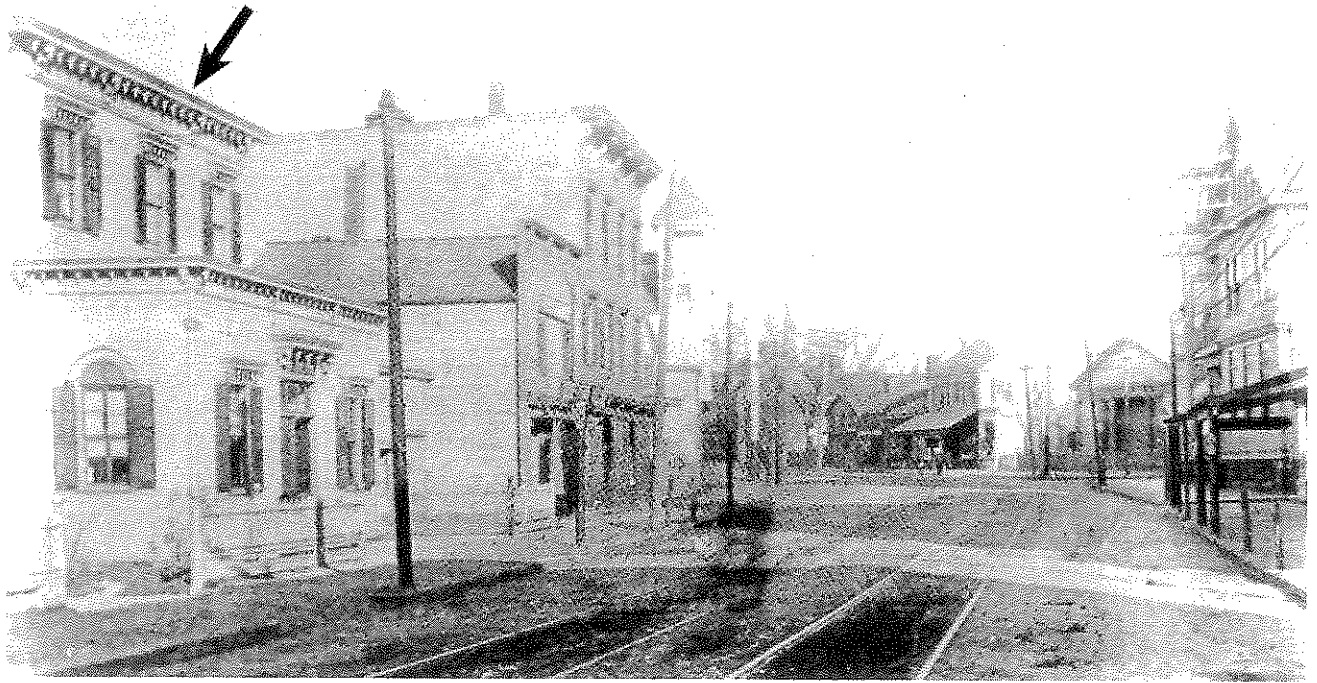
16a Northern intersection of Broadway and Thomson Ave. (Queens Blvd) in 1923. Broadway House (left arrow) stood on the southeast corner of the project site. On the northwest corner of the intersection was Furman Row (right arrow). (NYPL Digital Library)



16b Broadway House for rent in 1930 just before demolition began on Broadway for the subway. (Seyfried 1995:46)



16c This view was taken at the same time as the photo above. Looking west on Queens Blvd after widening (Seyfried 1995:70). Broadway House to the right was apparently altered to accommodate introduction of the subway.



16d Looking north on Broadway in 1901 with Arcanum Hall (arrow), which stood on the project site, to the left. (Seyfried 1995:52)



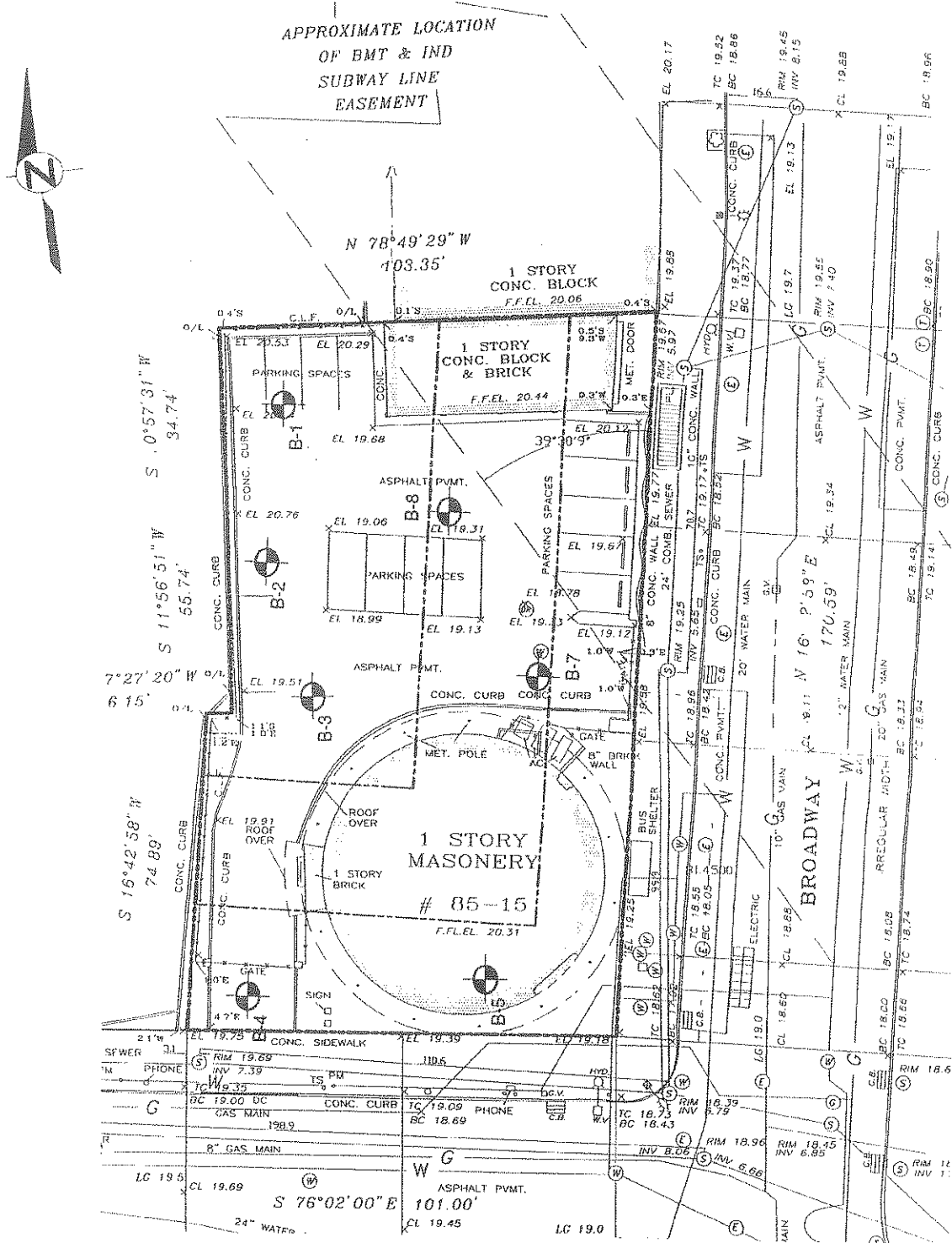
16e East side of Broadway, across from the project site, in 1930. Known as Furman Row, it was developed in 1895 and demolished in 1930 to make way for the subway. (Seyfried 1995:48)

APPENDIX A

SOIL BORING PLAN AND LOGS

(Carlin-Simpson 2002)

85-15 Queens Blvd, Eastern Half SOIL BORING PLAN



CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.				TEST BORING LOG				BORING NUMBER B-1		
Project: Proposed Building 85-15 Queens Blvd. Queens, NY						SHEET NO.: 1 of 3				
Client: 85-15 Queens Boulevard Realty, LLC						JOB NUMBER: 01-161				
Drilling Contractor: General Borings, Inc.						ELEVATION: +20.0				
GROUNDWATER						CASING	SAMPLE	CORE	TUBE	DATUM:
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS				START DATE: 07 Jan 02
7 Jan 02	1200	9'0"	HSA		3 1/4"	1 3/8" ID				FINISH DATE: 07 Jan 02
				WGHT		140#				DRILLER: M. Jennett
				FALL		30"				INSPECTOR: VCP/RHB
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	S	IDENTIFICATION				REMARKS	
					<u>Asphalt and Gravel</u>					
1					0'6" 1" Asphalt					
2		S-1	15		Fill (Br cf S, 1 (-) \$, t mf G)					
3			17		Rec = 19" moist					
4			12							
5		S-2	30							
6			14		do					
7			17		Rec = 6" moist					
8		S-3	50		<u>Fill (Brown coarse to fine SAND, little (-) Silt, trace medium to fine Gravel [11-65])</u>					
9			41							
10		S-4	22		do					
11			25		Rec = 2" moist					
12			14							
13		S-5	5		do, brick					
14			2		10'6"					
15			2		Gr dk br of S, 1 \$					
16			2		Rec = 14" wet					
17			11							
18			16		<u>Gray brown coarse to fine SAND, little Silt, trace fine Gravel [7-65]</u>					
19			17							
20										
21		S-6	11		Gr br cf S, 1 \$, t f G					
22			20		Rec = 19" wet					
23			23							
24			19							
25					18'6"					
26										
27		S-7	5		Varved gr C & S, occasional thin lens f S					
28			9		Rec = 18" moist					
29			12		<u>Varved gray CLAY & SILT, occasional thin lens fine Sand [9-65]</u>					
30			13		PP=1.5 TSF					

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.			TEST BORING LOG		BORING NUMBER	
Project: Proposed Building 85-15 Queens Blvd. Queens, NY					B-I	
Client: 85-15 Queens Boulevard Realty, LLC					SHEET NO.: 2 of 3	
					JOB NUMBER: 01-161	
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	IDENTIFICATION	REMARKS	
23				<u>Varved gray CLAY & SILT, occasional thin lens fine Sand</u> [9-65]		
24						
25						
26		S-8	5		Varved gr C & S, occasional thin lens f S	Rec = 24"
27			7			very moist
			10		PP = 0.75 to 1.0 TSF	
28						
29						
30						
31		S-9	11	Br cf S, t S, a mf G	Rec = 14" wet	
32			14			
33			41			
34						
35						
36		S-10	66	Rd br cf S, t S, l mf G	Rec = 6" wet	
37			70			
38			52			<u>Brown, red brown coarse to fine SAND, little Silt, little medium to fine Gravel</u> [6-65]
39			32			
40						
41		S-11	30	do, br	Rec = 8" wet	
42			42			
43			38			
44			31			
45		S-12	100/1"	do	No recovery	
46						
47						

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.			TEST BORING LOG		BORING NUMBER
Project: Proposed Building 85-15 Queens Blvd. Queens, NY					B-I
Client: 85-15 Queens Boulevard Realty, LLC					SHEET NO.: 3 of 3
					JOB NUMBER: 01-161
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	Identification	REMARKS
48					
49					
50					
51		S-13	29	Br of S, l s, s of G	
52			30		Rec = 10" wet
52			28		52'0"
53				End of Boring @ 52'0"	
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					
71					
72					

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.				TEST BORING LOG				BORING NUMBER B-2	
Project: Proposed Building 85-15 Queens Blvd. Queens, NY				SHEET NO.: 1 of 3				JOB NUMBER: 01-161	
Client: 85-15 Queens Boulevard Realty, LLC				ELEVATION: +20.5				Drilling Contractor: General Borings, Inc.	
GROUNDWATER				CASING	SAMPLE	CORE	TUBE	DATUM:	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS		START DATE:	07 Jan 02
7 Jan 02	0330	9'6"	HSA	DIA.	3 1/4"	1 3/8" ID		FINISH DATE:	07 Jan 02
				WGHT		140#		DRILLER:	M. Jonnett
				FALL		30"		INSPECTOR:	VCP/RHB
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	Soil	IDENTIFICATION			REMARKS	
1					Asphalt and Gravel			0'6"	1" Asphalt
2		S-1	15	Fill (Br of S, t (+) \$, 1 mf G, 1 glass, asphalt)	Fill (Brown, gray, brown coarse to fine SAND, little Silt, little medium to fine Gravel, traces of glass, asphalt, cinders, topsoil) [11-65]			7'6"	Rec = 18" moist
3			24						
4			12						
5		S-2	13	do, gr br w/cinders				7'6"	Rec = 12" moist
6			22						
7			11						
8		S-3	5	do, dk gr rd br cf S, 1 \$, 1 f G					Rec = 12" moist to wet
9			6						
10			5						
11		S-4	2	do, w/topsoil				7'6"	Rec = 12" moist to wet
12			7	Gr mf S, 1 \$					
13			7		Gray coarse to fine SAND, little Silt, trace fine Gravel [7-65]				
14			6	Gr cf S, 1 S, t (-) f G				13'6"	
15			5						
16		S-5	7						Rec = 24" wet
17			9						
18									
19									
20									
21		S-6	6	Gr C & \$					Rec = 24" wet
22			10						
23			13						
24			47		Gray CLAY & SILT [9-65]				PP=2.5 TSF
25									
26									
27									
28									
29		S-7	5	do					Rec = 24" wet
30			7						
31			9						
32			9						

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.			TEST BORING LOG		BORING NUMBER
Project: Proposed Building 85-15 Queens Blvd. Queens, NY					B-2
Client: 85-15 Queens Boulevard Realty, LLC					SHEET NO.: 2 of 3
					JOB NUMBER: 01-161
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	Identification	REMARKS
23				Gray CLAY & SILT [9-65]	
24					
25					
26		S-8	17	Rd br cf 1 S, s \$, 1 cf G, occ cobble & boulder	250"
27			36		Rec = 12" wet
28			38		
29			40		
30					
31		S-9	13	do	
32			17		Rec = 14" wet
33			73	Red brown, brown coarse to fine SAND, some silt, little coarse to fine Gravel, occasional cobbles & boulders [6-65]	
34			29		
35					
36		S-10	13	do, br	
37			25		Rec = 12" wet
38			24		
39			23		
40					
41		S-11	36	do	
42			43		Rec = 10" wet
43			33		
44			38		
45					
46		S-12	29	do	
47			46		Rec = 8" wet
			66		
			60		

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.			TEST BORING LOG		BORING NUMBER
Project: Proposed Building 85-15 Queens Blvd. Queens, NY					B-2
Client: 85-15 Queens Boulevard Realty, LLC					SHEET NO.: 3 of 3
					JOB NUMBER: 01-161
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	Identification	REMARKS
48					
49					
50					
51		S-13	24	Br of S, s, l of G	Rec = 12" wet
52			32		
53			34		
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					
71					
72					

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.				TEST BORING LOG				BORING NUMBER B-3	
Project: Proposed Building 85-15 Queens Blvd. Queens, NY						SHEET NO.: 1 of 3			
Client: 85-15 Queens Boulevard Realty, LLC						JOB NUMBER: 01-161			
Drilling Contractor: General Borings, Inc.						ELEVATION: +19.4			
GROUNDWATER								DATUM:	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS	CORE	TUBE	START DATE:
9 Jan 02		9'0"	HSA		3 1/4"	1 3/8" ID			08 Jan 02
				WGHT		140#			FINISH DATE: 08 Jan 02
				FALL		30"			DRILLER: M. Jennett
									INSPECTOR: VP/RHB
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	Soil	IDENTIFICATION				REMARKS
1					Asphalt & Crushed Stone				0'6" 2" Asphalt
2		S-1	37		Fill (Rd br, gr cf S, s (-) S, l mf G)				Rec = 18" moist
3			16						
4		S-2	12		do, a S, t mf G				Rec = 16" moist
5			16						
6		S-3	12		Fill (Red brown, gray coarse to fine SAND, and Silt, little coarse to fine Gravel, with brick, concrete) [11-65]				Rec = 6" moist
7			100/5"		do				
8									
9									
10									
11		S-4	36		Fill (Dk gr cf S, l S, l cf G, w/brick, concrete)				Rec = 14" wet
12			16						
13			14						
14					13'0"				
15									
16		S-5	24		Br, gr cf S, l S, tf G				Rec = 16" wet
17			21						
18			19		Brown, gray coarse to fine SAND, little Silt, trace fine Gravel [7-65]				
19									
20									
21		S-6	7		Br cf S, l S, t f G				Rec = 18" wet
22			15						
			33						
			26						

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.			TEST BORING LOG		BORING NUMBER
Project: Proposed Building 85-15 Queens Blvd. Queens, NY					B-3
Client: 85-15 Queens Boulevard Realty, LLC					SHEET NO.: 2 of 3
					JOB NUMBER: 01-161
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	Soil	REMARKS
23					
24					
25					
26		S-7	10	Br of S, 1 S, 1 FG	
27			16		Rec = 16" wet
28			19		
29			21		
30					
31		S-8	16	do	
32			17		Rec = 16" wet
33			38		
34			31		
35					
36		S-9	10	do	
37			36		Rec = 18" wet
38			29		
39			27		
40					
41		S-10	16	do	
42			18		Rec = 20" wet
43			29		
44			30		
45					
46		S-11	11	do	
47			13		46'0" Rec = 22" wet
			33		
			37		

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.				TEST BORING LOG		BORING NUMBER B-3	
Project: Proposed Building 85-15 Queens Blvd. Queens, NY				SHEET NO.: 3 of 3			
Client: 85-15 Queens Boulevard Realty, LLC				JOB NUMBER: 01-161			
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	IDENTIFICATION		REMARKS	
48							
49							
50							
51		S-12	20	Br, gr of G s, of S, t \$ w/cobbles, boulders		Rec = 10" wet	
51		29					
52		40					
52			56			52'0"	
53				End of Boring @ 52'0"			
54							
55							
56							
57							
58							
59							
60							
61							
62							
63							
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72							

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.				TEST BORING LOG				BORING NUMBER B-4	
Project: Proposed Building 85-15 Queens Blvd. Queens, NY				SHEET NO.: 1 of 3				JOB NUMBER: 01-161	
Client: 85-15 Queens Boulevard Realty, LLC				ELEVATION: +19.8				Drilling Contractor: General Borings, Inc.	
GROUNDWATER				CASING	SAMPLE	CORE	TUBE	DATUM:	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			
10 Jan 02	1100	11'6"	HSA		3 1/4"	1 3/8" ID			START DATE: 10 Jan 02
				WGHT		140#			FINISH DATE: 10 Jan 02
				FALL		30"			DRILLER: M. Jennett
									INSPECTOR: VCP
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	Soil	IDENTIFICATION			REMARKS	
1					Asphalt and Gravel			0'6" 2" Asphalt	
2		S-1	8	Fill (Br cf S, 1 S, 1 cf G)				Rec = 3" moist	
3			6	do					
4		S-2	3	do					
5			5	do	Fill (Brown coarse to fine SAND, little Silt, little coarse to fine Gravel) [11-65]			Rec = 8" moist	
6			10	do					
7		S-3	3	do				No recovery	
8			4	do					
9		S-4	7	do				Rec = 1" moist	
10			9	do					
11			12	do					
12		S-5	18	do				Rec = 12" moist to very moist	
13			13	do					
14			30	do					
15			29	do					
16			8	do					
17		S-6	12	do				11'6" moist to very moist	
18			15	do					
19			19	Br cf S, 1 S, 1 mf G					
20									
21									
22									
23									
24									
25									
26		S-7	26	Rd br cf S, t (+) S, a cf G				Rec = 9" wet	
27			29	do					
28			30	do	Brown, red brown coarse to fine SAND, trace (+) Silt, and coarse to fine Gravel, occasional cobbles & boulders [6-65]				
29			32	do					
30									
31									
32									
33									
34									
35									
36									
37									
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CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.			TEST BORING LOG		BORING NUMBER B-4	
Project: Proposed Building 85-15 Queens Blvd. Queens, NY			SHEET NO.: 2 of 3		JOB NUMBER: 01-161	
Client: 85-15 Queens Boulevard Realty, LLC						
Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Identification	Remarks	
23						
24						
25						
26		S-8	15 87	do		
27			100/2"			Rec = 14" wet
28				<u>Brown coarse to fine Sand, trace Silt, and coarse to fine Gravel, occasional cobbles & boulders [6-65]</u>		
29						
30						
31		S-9	6 12 28 71	Br of S, t S, a of G		Rec = 24" wet
32						
33						
34						
35						
36		S-10	21 52	do		Rec = 17" wet
37			100/5"			
38						
39						
40						
41		S-11	12 19 23 26	do		Rec = 12" wet
42						
43						
44						
45						
46		S-12	25 34 51 82	do		Rec = 24" wet
47						

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.			TEST BORING LOG		BORING NUMBER B-4	
Project: Proposed Building 85-15 Queens Blvd. Queens, NY					SHEET NO.: 3 of 3	
Client: 85-15 Queens Boulevard Realty, LLC					JOB NUMBER: 01-161	
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	Soil	IDENTIFICATION	REMARKS
			29	do		
48		S-13	47		Brown coarse to fine Sand, trace Silt, and coarse to fine Gravel, occasional cobbles & boulders [6-65] 49'0"	Rec = 24" wet
			75			
49			100/3"			
50					End of Boring @ 49'0"	
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.				TEST BORING LOG				BORING NUMBER B-5	
Project: Proposed Building 85-15 Queens Blvd. Queens, NY				SHEET NO.: 1 of 2				JOB NUMBER: 01-161	
Client: 85-15 Queens Boulevard Realty, LLC				ELEVATION: Basement FF				INSPECTOR: VCP	
Drilling Contractor: General Borings, Inc.				DATE				DATUM:	
DATE	TIME	DEPTH	CASING	TYPE	FJ	SS	CORE	TUBE	START DATE: 17 Jan 02
17 Jan 02	0100	2'0"	HSA	DIA.	3"	1 3/8" ID			FINISH DATE: 18 Jan 02
				WGHT		140#			DRILLER: M. Jennett
				FALL		30"			INSPECTOR: VCP
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	IDENTIFICATION	REMARKS				
1		S-1	4	GRAVEL	0'6"				
			6	Fill (Br cf S, t S, l mf G)	Drilled through 9" concrete floor slab				
2			20	Fill (Brown coarse to fine SAND, trace Silt, little medium to fine Gravel) [11-65]	Rec = 4" very moist to wet				
			23						
			26						
3		S-2	28	Rd br cf S, l \$	2'8"				
			39		Rec = 18" wet				
			46						
4									
5									
6									
7									
8									
9		S-3	39	do					
			50		Rec = 12" wet				
			63						
10			55						
			50	Rd br cf S, l \$, l mf G					
11		S-4	47		Rec = 24" wet				
			73						
			67						
12									
13									
14		S-5	49	do, l (+) \$					
			70		Rec = 14" wet				
			71	Red brown, brown coarse to fine SAND, little (+) Silt, little medium to fine Gravel [6-65]					
15			65						
16									
17									
18									
19		S-6	38	Br cf S, l \$, s (-) mf G					
			49		Rec = 12" wet				
			51						
20			46						
21									
22									

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.			TEST BORING LOG		BORING NUMBER
Project: Proposed Building 85-15 Queens Blvd. Queens, NY			SHEET NO.:		B-5 2 of 2
Client: 85-15 Queens Boulevard Realty, LLC			JOB NUMBER:		01-161
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	IDENTIFICATION	REMARKS
23		S-7	15	Br of S, t S, l mf G	No recovery
			17		
			21		
24			15		
25					
26					
27					
28					
29		S-8	12	Br of S, t S, l mf G	Rec = 5" wet
			13		
			22		
30			25	Brown coarse to fine SAND, trace Silt, little medium to fine Gravel [6-65]	
31					
32					
33					
34					
35					
36					
37					
38					
39		S-9	27	do	Rec = 10" wet
			26		
			32		
40			29		40'0"
41				End of Boring @ 40'0"	
42					
43					
44					
45					
46					
47					

[NOTE: SOIL BORING 6 NOT PART OF THIS SEQUENCE]

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.		TEST BORING LOG					BORING NUMBER B-7			
Project: Proposed Building 85-15 Queens Blvd. Queens, NY						SHEET NO.: 1 of 5				
Client: 85-15 Queens Boulevard Realty, LLC						JOB NUMBER: 01-161				
Drilling Contractor: General Borings, Inc.						ELEVATION: +19.1				
GROUNDWATER						CASING	SAMPLE	CORE	TUBE	DATUM:
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS				START DATE:
10 Jan 02		10'6"	HSA	DIA.	3 1/4"	1 3/8" ID				10 Jan 02
				WGHT		140#				FINISH DATE: 16 Jan 02
				FALL		30"				DRILLER: M. Jennett
										INSPECTOR: VCP
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	Identification	REMARKS					
1				ASPHALT & GRAVEL	0'6" 1 1/2" Asphalt					
2		S-1	8	Fill (Br of S, t \$, mf G)	Rec = 15" moist					
3			18							
4		S-2	16	Fill (Brown coarse to fine SAND, trace Silt, medium to fine Gravel [11-65])	Rec = 12" moist					
5			12							
6		S-3	11	do						
7			11							
8		S-4	15	do						
9			9							
10		S-5	5	Gr C & \$	10'0" Rec = 14" wet					
11			4	Gray CLAY & SILT [9-65]						
12			6							
13			7							
14			9							
15		S-6	4	Br of S, s \$, l of G	15'3" Rec = 14" wet					
16			2							
17			1							
18										
19										
20										
21		S-7	10	Brown coarse to fine SAND, some Silt, little coarse to fine Gravel [6-65]	Rec = 2" wet					
22			3							
			5							
			10							
			29							
			17							
			22							
			37							
			21	do						
			71							
			82							
			27							

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.		TEST BORING LOG		BORING NUMBER B-7	
Project:		Proposed Building 85-15 Queens Blvd. Queens, NY		SHEET NO.: 2 of 5	
Client:		85-15 Queens Boulevard Realty, LLC		JOB NUMBER: 01-161	
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	Soil	REMARKS
23					
24					
25					
26		S-8	16	Rd br cf S, s S, l cf G, occ cobbles & boulders	Rec = 16" wet
27			28		
28			27	<u>Red brown coarse to fine SAND, some Silt, little coarse to fine Gravel, occasional cobbles & boulders</u> [6-65]	
29			26		
30					
31		S-9	24		No recovery
32			34		
33			31		
34			32		
35					
36		S-10	23	do	36'0" Rec = 13" wet
37			24	Br cf S, t S, a cf G occ cobbles & boulders	
38			10		
39			10		
40					
41		S-11	18	Br cf S, t S, a (+) cf G	Rec = 12" wet
42			19		
43			16	<u>Brown coarse to fine SAND, trace Silt, and (+) coarse to fine Gravel, occasional cobbles & boulders</u> [6-65]	
44			16		
45					
46		S-12	28	Br cf G s (+), cf S, t S	Rec = 14" wet
47			24		
			16		
			13		

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.			TEST BORING LOG		BORING NUMBER
Project: Proposed Building 85-15 Queens Blvd. Queens, NY					B-7
Client: 85-15 Queens Boulevard Realty, LLC					SHEET NO.: 3 of 5
					JOB NUMBER: 01-161
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	IDENTIFICATION	REMARKS
48					
49					
50					
51		S-13	13	Br of S, t S, a of G, occ cobbles & boulders	Rec = 10"
52			23		wet
53			24		
54			19		
55					
56					
57					
58					
59					
60					
61		S-14	13	do	Rec = 14"
62			19		wet
63			11		
64			12		
65					
66					
67					67'0"
68					
69					
70					
71		S-15	29	Br of S, t S, l mf G	Rec = 16"
72			31		wet
			28		
			30		

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.			TEST BORING LOG		BORING NUMBER B-7	
Project: Proposed Building 85-15 Queens Blvd. Queens, NY			SHEET NO.: 5 of 5		JOB NUMBER: 01-161	
Client: 85-15 Queens Boulevard Realty, LLC						
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	Identification	REMARKS	
98						
99						
100						
			15			
101		S-18	27	Gr mf S, s \$ l mf G	101'0"	Rec = 22"
			39	Or mf S, a S		wet
102			40	Orange medium to fine Sand and Silt [7-65]	102'0"	
103				End of Boring @ 102'0"		
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						
121						
122						

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.				TEST BORING LOG				BORING NUMBER B-8	
Project: Proposed Building 85-15 Queens Blvd. Queens, NY				SHEET NO.: 1 of 3				JOB NUMBER: 01-161	
Client: 85-15 Queens Boulevard Realty, LLC				ELEVATION: +19.3				DATUM:	
Drilling Contractor: General Borings, Inc.				CASING				SAMPLE CORE TUBE	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			
8 Jan 02	0130	11'0"	HSA	DIA.	3 1/4"	1 3/8" ID			
				WGHT		140#			
				FALL		30"			
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	IDENTIFICATION				REMARKS	
1				ASPHALT				0'3"	
2		S-1	28	Fill (Dk br of S, l S, l of G, occ. brick & asphalt)				Rec = 12" moist	
3			31	do					
4		S-2	29	Fill (Dark brown, coarse to fine SAND, little Silt, some coarse to fine Gravel, occasional brick, asphalt, wood, concrete)				Rec = 10" moist	
5			37	do				Auger refusal @ 3'0"	
6		S-3	34	[11-65]				Relocated boring Rec = 6" moist	
7			82	do				Auger refusal @ 7'0"	
8		S-4	84	Fill (Br of S, t (+) S, a of G, occ wood, brick, asphalt, concrete)				Relocated boring Rec = 12" moist	
9			21	do					
10			37	do					
11		S-5	6	Gr Sy C				10'0"	
12			12	do				Rec = 22" moist	
13			17	Gray Silty CLAY [9-65]				pp=1.75 TSF	
14				do					
15				do					
16		S-6	10	do				Rec = 24" moist	
17			12	do				pp=2.0 TSF	
18			16	do					
19				do					
20				do					
21		S-7	97	do				Rec = 16" moist to wet	
22			45	Gr br of S, s S, l of G [6-65]				21'9" pp=1.75 TSF	

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.			TEST BORING LOG		BORING NUMBER B-8	
Project: Proposed Building 85-15 Queens Blvd. Queens, NY			SHEET NO.: 2 of 3		JOB NUMBER: 01-161	
Client: 85-15 Queens Boulevard Realty, LLC						
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	Soil	IDENTIFICATION	REMARKS
23						
24						
25						
26		S-8	18		Br of S, l s, a of G, occ cobbles & boulders	Rec = 12" wet
27			27			
28			24			
29			28			
30						
31		S-9	9		do	Rec = 18" wet
32			18			
33			22			
34			75		Brown coarse to fine SAND, little Silt, and coarse to fine Gravel, occasional cobbles and boulders [6-65]	
35						
36		S-10	14		do	Rec = 14" wet
37			19			
38			25			
39			42			
40						
41		S-11	14		do	Rec = 4" wet
42			28			
43			36			
44			38			
45						
46		S-12	9		do	Rec = 22" wet
47			16			
			31			
			32			

CARLIN - SIMPSON & ASSOCIATES South Amboy, N.J.			TEST BORING LOG		BORING NUMBER B-8	
Project: Proposed Building 85-15 Queens Blvd. Queens, NY			SHEET NO.: 3 of 3		JOB NUMBER: 01-161	
Client: 85-15 Queens Boulevard Realty, LLC						
Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	Identification	REMARKS	
48				<u>Brown coarse to fine SAND, little Silt, and coarse to fine Gravel, occasional cobbles and boulders [6-65]</u>		
49						
50						
51		S-13	4 do			
51			17		Rec = 2" wet	
52			18			
52			22		52'0"	
53				<u>End of Boring @52'0"</u>		
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						