



AECOM
303 E. Wacker Drive, Suite 900
Chicago, Illinois 60601

312-938-0300 tel
312-938-1109 fax

June 21, 2013

Mr. Daniel Cooper
Chicago Park District
541 N. Fairbanks Ct.
Chicago, IL 60611

RE: Radiological Surface Gamma Survey Results for Peanut Park, Chicago, Illinois
Permit No.: D12212-01
AECOM Project No. 60287451

Dear Mr. Cooper:

Peanut Park (Site) is approximately 4 plus acres of land that was created when Lake Shore Drive was reconfigured in 1981. The larger North Grant Park, located just west of the Site, is undergoing redevelopment that includes using the Site for the temporarily stockpiling of soil from the North Grant Park project. The majority of the soil will be returned to North Grant Park as part of the redevelopment. Excess soil not reused on North Grant Park will be subsequently utilized to increase the final grade of Peanut Park.

AECOM Technical Services, Inc. (AECOM) conducted a radiological surface gamma survey at the Site on December 27, 28 and 31 of 2012. Figure 1 provides an outline of the area surveyed. As shown in Figure 2, soil was already stockpiled along the northern portion of the Site. Thus, select grid locations along the northern boundary were not able to be screened entirely (refer to Figure 2).

The radiological surface survey was performed utilizing procedures previously approved by the United States Environmental Protection Agency (USEPA) for other surface surveys and remediation projects in the Streeterville area. Specifically, a 25-foot by 25-foot grid network was created within the fenced portion of the Site (refer to Figure 1). The 25-foot grids were marked by flagging and/or paint at the edges of the survey area and within the Site. The entire surface area within each grid cell was slowly traversed so that the walk-over survey covered 100 percent of the intra-grid surface area. The radiological surveying was conducted using a Ludlum 2221 scaler-ratemeter and an unshielded 2 x 2-inch Sodium Iodide (NaI) probe. Field screening data sheets were used to record the grid coordinates and associated intra-grid maximum gamma readings. Data was also recorded from the 4 corners of each grid.

The monitoring of the radiological surface survey revealed no indication of soils above the specified cleanup threshold established by the USEPA for the Streeterville area of Chicago. The USEPA cleanup threshold for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g) total radium (Ra-226 + Ra-228). For the instrumentation used, the gamma count equivalent to the 7.1 pCi/g threshold was 18,865 counts per minute (cpm) unshielded. Unshielded intra-grid cell maximum field gamma measurements recorded during the surface survey ranged from 6,500 to 12,500 cpm with an average of 10,055 cpm. Figure 2 presents alpha numeric grid network and the maximum gamma reading for each grid cell. Figure 3 presents a histogram of the maximum intra-grid gamma readings, which shows that the majority were between 9,000 and 11,000 cpm (i.e., approximately 75%). Thus, there was no indication of the presence of radiologically-contaminated material and/or an exceedance of the USEPA cleanup threshold of 7.1 pCi/g total radium.



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Chicago, Illinois 60601

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Please contact us with any questions you have regarding this letter or the reported results.

Regards,

Brian R. Schmidt
Project Scientist II

Steven C. Kornder, Ph.D.
Senior Project Geoscientist

cc: Verneta Simon, USEPA

Attachment: CDOPH Permit
Surface Survey Boundary Drawing
Surface Survey Grid and Maximum Gamma Readings
Maximum Gamma Readings Histogram

AECOM has completed this project under the Master Agreement with the Chicago Park District (Specification No. P-11007). This work has been performed in conformance with the care and skill ordinarily exercised by similar members of the profession practicing and performing the same or similar services and performing under similar conditions at the same time or similar locality. No other warranty of any kind, expressed or implied, at common law or created by statute, is extended, made, or intended by the rendition of consulting services or by furnishing oral or written reports of the findings made.

K:\PROJECTS\60287451\7.0_Deliverables\7.6_Reports\Surface_Survey_Read_Ltr_Peanut_Park.docx



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

FORM NO. CDPH.PRPTY.02

Notice is hereby given that the site you have requested a permit for is recorded with the City of Chicago Department of Public Health (CDPH) as potentially having environmental contamination on the site. This environmental contamination could present a threat to human health and safety in connection with work performed at the site, if proper safeguards are not employed.

A file containing detailed information regarding the aforementioned environmental contamination is available for review at CDPH at 333 S. State St., Room 200, Chicago, Illinois 60604 during normal business hours (8:30AM-4:30PM, Monday through Friday). Contact (312) 745-3152 for an appointment. This file must be reviewed and the remainder of this form completed before the permit can be issued if the ground is exposed or excavated. **Please note that for some locations, additional health and safety procedures may be required by law.**

Please complete the following:

I have reviewed and understand the documents, maintained by CDPH, regarding environmental contamination of the site. Further, I will ensure that all work at the subject site, and any monitoring required including but not limited to radiation monitoring, will be performed in a manner that is protective of human health and the environment and in compliance with all applicable local, state, and federal laws, rules, and regulations, especially those pertaining to worker safety and surveying conducted shall be provided to CDPH and the United States Environmental Protection Agency **within two (2) weeks of their completion**. If any elevated levels of radioactive material are detected, I will immediately contact the United States Environmental Protection Agency at (800) 424-8802.

Applicant Name (print): Daniel Cooper Signature: [Signature]

Site Address and Work Location (Describe exact site location and attach map): 431 E Randolph St, Chicago, IL
South of Randolph, North & West of Lake Shore Drive

Nature of Work: Topsail removal + stack piling

Company Name, Address, Phone No.: Chicago Park District, 541 N Fairbanks St, 312-742-4287

General / Prime Contractor Name, Address, Phone No.: McHugh Construction
Include subcontractor information if applicable)

Safety Officer / Phone No. Carlos Del Val - 312-617-6137

Radiation Contractor / Phone No. (if applicable) AECOM, Steve Kornder, 262-515-7700

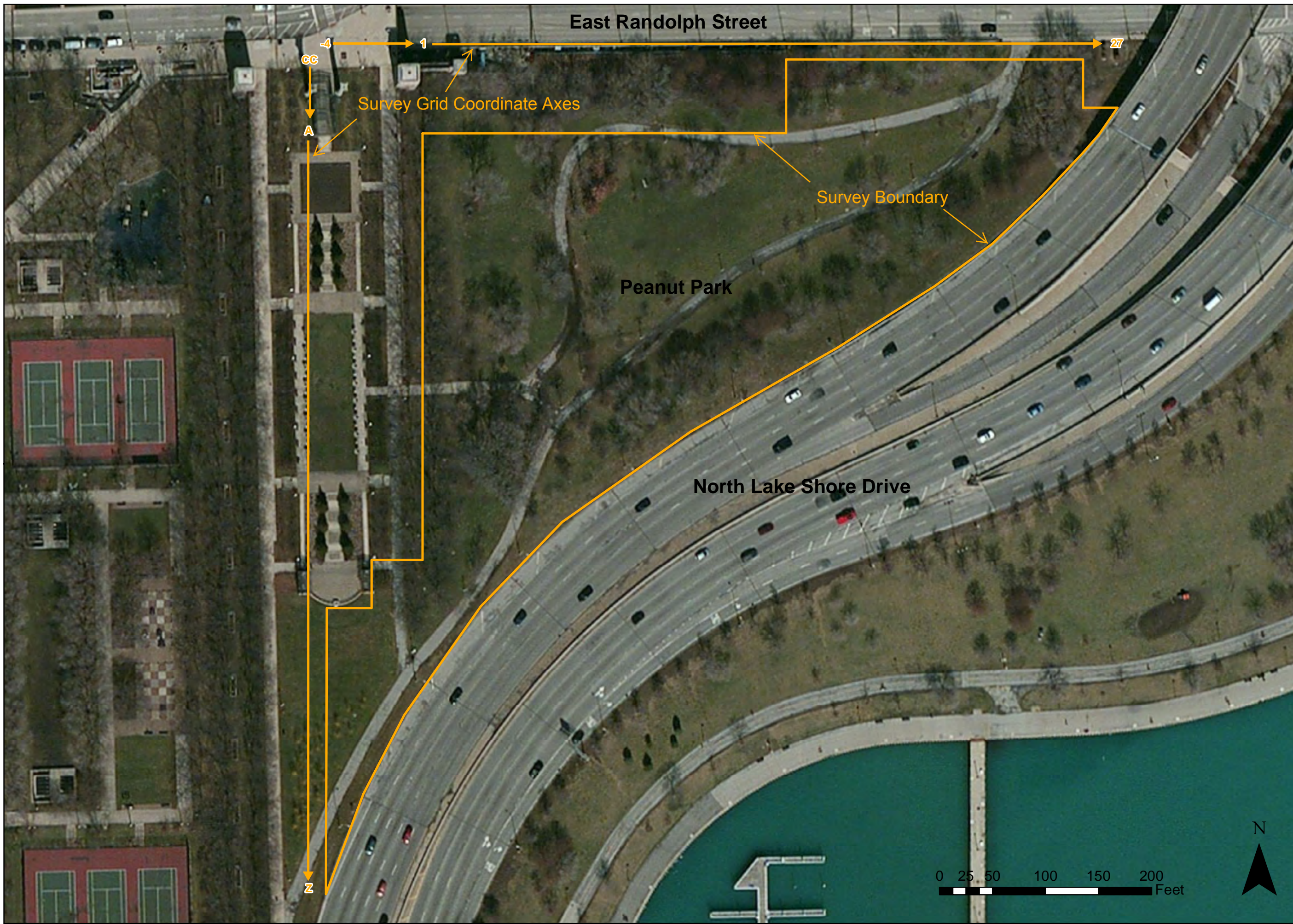
Check if City Department Work Department Name: _____

CDOT Permit No. or Developer Services No.: DOB Permit # D12212-01

Today's Date: 12/20/12 Expected Start Date: 12/27/12 CDPH Approval / Date: [Signature] 12/27/12

Please return this completed form to CDPH at 333 S. State St., Room 200, Chicago, Illinois 60604 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday)

For CDPH Use Only



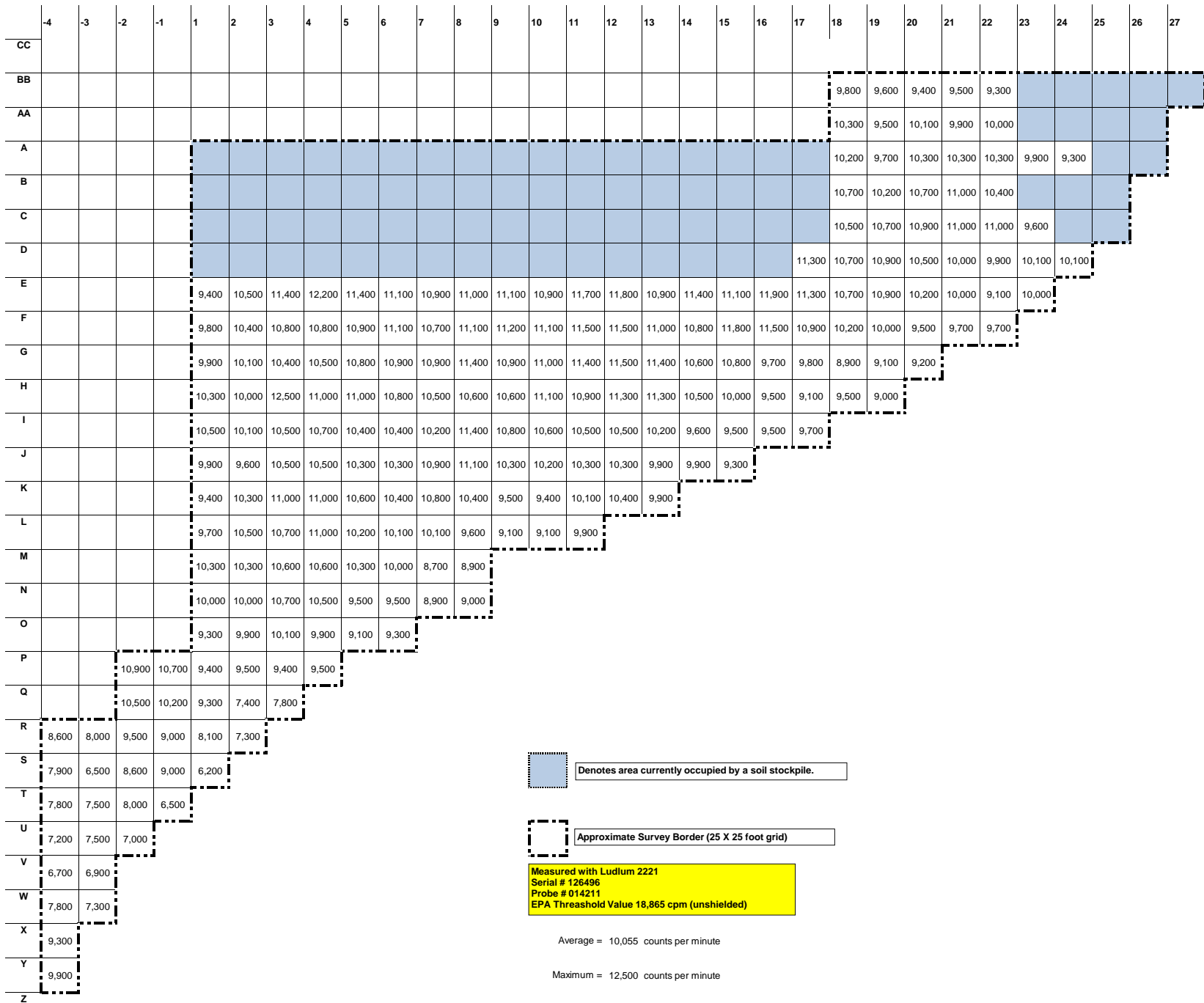
DESIGNED BY:		REVISIONS	
NO.:	DESCRIPTION:	DATE:	BY:


AECOM
 AECOM
 27755 Djehl Road
 Warrenville, Illinois 60555
 Phone: (630) 836-1700
 Fax: (630) 836-1711
 Web: http://www.aecom.com

Gamma Surface Survey Locations		PROJECT NUMBER:	
Peanut Park		60287451	
Chicago, Illinois		DATE:	03/24/13
SCALE:	AS SHOWN		

FIGURE NUMBER
1
SHEET NUMBER

Figure 2
Surface Maximum Gamma Survey Results
(Counts Per Minute)
Peanut Park, Chicago IL



 Denotes area currently occupied by a soil stockpile.

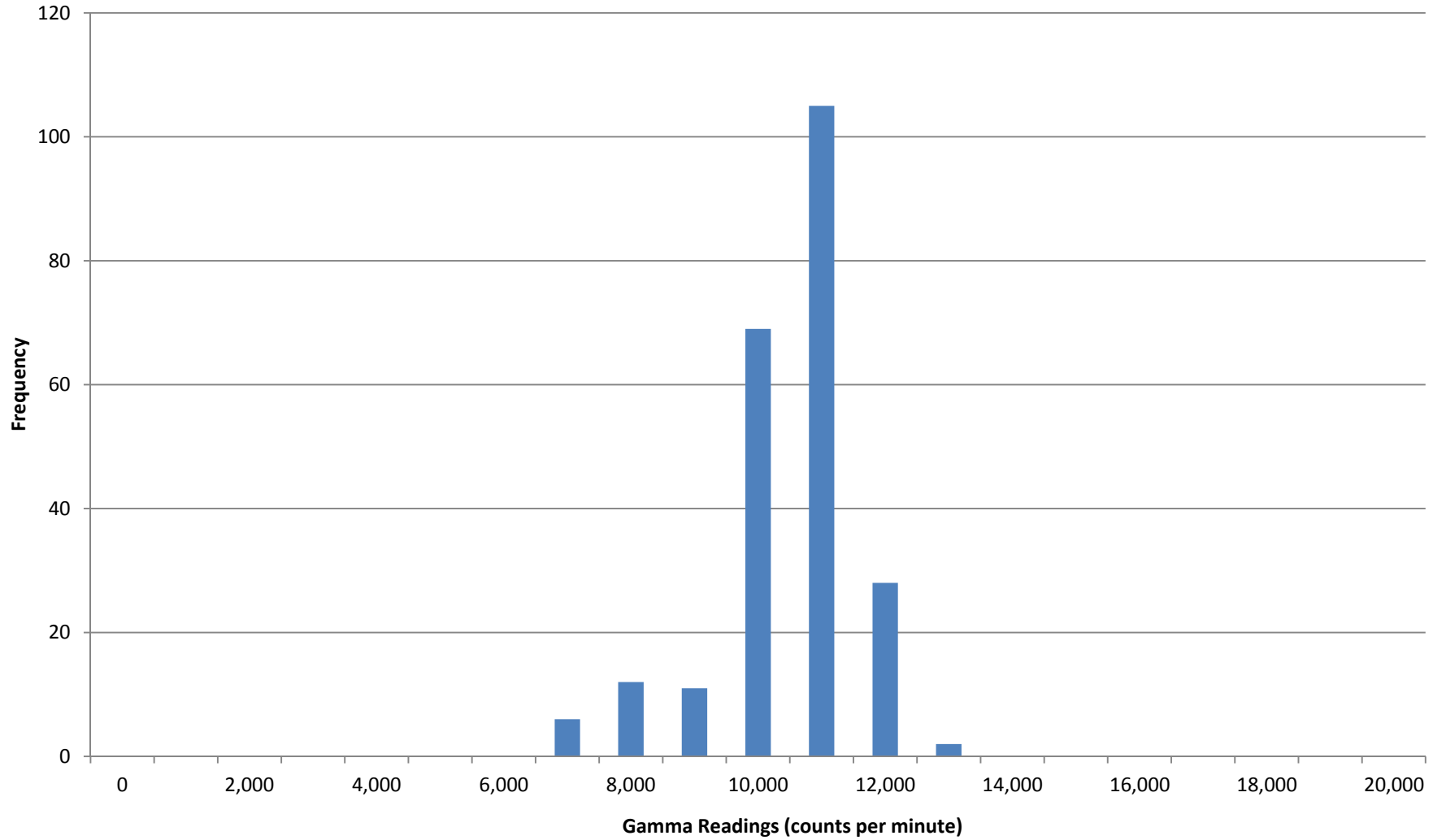
 Approximate Survey Border (25 X 25 foot grid)

Measured with Ludlum 2221
 Serial # 126496
 Probe # 014211
 EPA Threshold Value 18,865 cpm (unshielded)

Average = 10,055 counts per minute

Maximum = 12,500 counts per minute

Figure 3
Surface Gamma Maximum Grid Cell Reading Histogram
Peanut Park, Chicago, Illinois
December 2012





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303 E. Wacker Drive, Suite 900
Chicago, Illinois 60601

312-938-0300 tel
312-938-1109 fax

June 21, 2013

Mr. Daniel Cooper
Chicago Park District
541 N. Fairbanks Ct.
Chicago, IL 60611

RE: Radiological Survey for the Subsurface Geotechnical Investigation of Peanut Park, Chicago, Illinois
Permit No.: D12212-01
AECOM Project No. 60287451

Dear Mr. Cooper:

Peanut Park (Site) is approximately 4 plus acres of land that was created when Lake Shore Drive was reconfigured in 1981. The larger North Grant Park, located just west of the Site, is undergoing redevelopment that includes using the Site for temporarily stockpiling soil from North Grant Park. The majority of the soil will be returned to North Grant Park as part of the redevelopment. Excess soil not reused on North Grant Park will be utilized to increase the grade of Peanut Park.

AECOM Technical Services, Inc. (AECOM) provided radiological soil surveillance between January 21st and 23rd, 2013, for the radiological surveying of spoil generated during the drilling of 14 geotechnical borings conducted by GSG Consultants, Inc. The borings were installed to provide information for the future installation of light poles as part of the redevelopment of the Site after the soil is returned to North Grant Park. The borings were completed using a drill rig equipped with continuous flight augers to depths of approximately 8 to 45-feet below ground surface (bgs). The location of the borings is provided on the attached annotated drawings (refer E102 and E103).

Surveying was performed for the soils (spoil) characterized as urban fill that were displaced to the surface during the process of drilling at the 14 boring locations. SB-5 was drilled through a soil stockpile, therefore the drillers blind drilled through the upper 25-feet of overburden material before reaching the original surface grade. As such, the Table 1 value for SB-5 has been corrected to original the ground surface. The borings indicated that the fill soil thicknesses ranged generally between 10 and 12-feet.

The gamma monitoring revealed no indication of soils above the specified clean-up threshold established by the U.S. Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The USEPA threshold for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g) total radium (Ra-226 + Ra-228). Gamma radiation count measurements for the project were made using a Ludlum Model 2221 survey meter and an unshielded 2 x 2 inch NaI probe (Model 44-10). For the instrument used, the gamma count equivalent to the 7.1 pCi/g threshold was 18,701 counts per minute (cpm) unshielded. The unshielded field gamma measurements within the spoil materials generated during the drilling process did not exceed the respective threshold value previously stated and ranged from 4,100 cpm to a maximum of about 9,000 cpm. Background surface gamma readings ranged from 4,700 to 7,800 cpm. The maximum gamma reading for the spoil for each boring has been summarized in Table 1.

Table 1
Boring Spoil Maximum Gamma Readings

Location	Depth (ft-bgs)	Maximum Observed Gamma Reading (cpm)
SB-1	8.5-10	6,900
SB-2	11-12.5	7,500
SB-3	8.5-10	7,400
SB-4	6-7.5	7,500
SB-5	11-12.5	9,000
SB-6	6-7.5	7,700
SB-7	11-12.5	7,700
SB-8	1-2.5	7,500
SB-9	11-12.5	8,300
SB-10	8.5-10	8,100
SB-11	6-7.5	7,900
SB-12	8.5-10	6,800
SB-13	1-2.5	4,700
SB-14	13.5-15	5,400
	Average	7,314

As part of the permit conditions this letter has been forwarded to:

Chicago Department of Public Health
Attention: Ms. Rahmat Begum
333 South State Street, Room 200
Chicago, Illinois 60604

Please contact us with any questions you have regarding this letter or the reported results.

Regards,



Brian R. Schmidt
Project Scientist II



Steven C. Kornder, Ph.D.
Senior Project Geoscientist

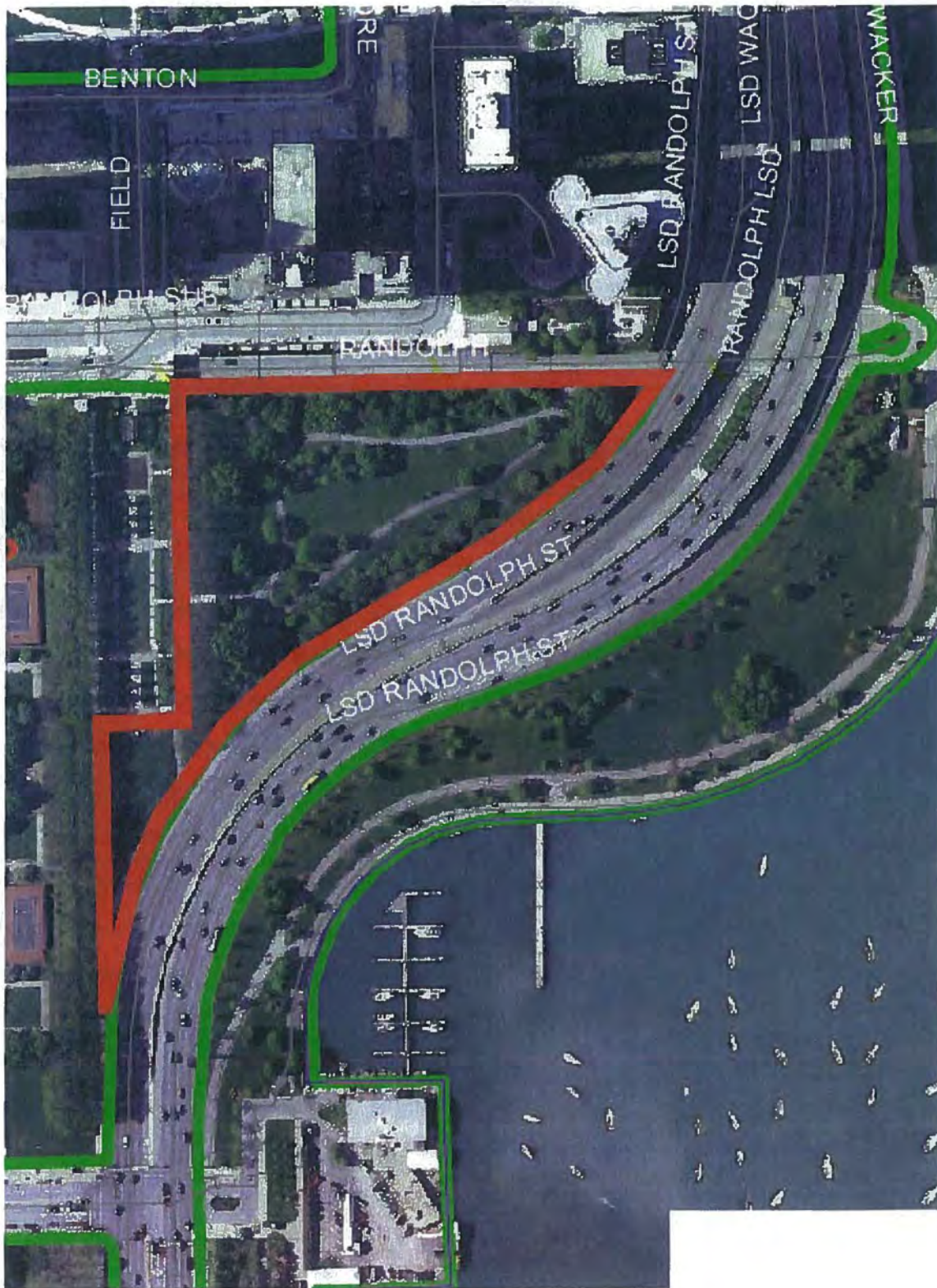
cc: Verneta Simon, USEPA

Attachments: Permit
Annotated Drawings

AECOM has completed this project under the Master Agreement with the Chicago Park District (Specification No. P-11007). This work has been performed in conformance with the care and skill ordinarily exercised by similar members of the profession practicing and performing the same or similar services and performing under similar conditions at the same time or similar locality. No other warranty of any kind, expressed or implied, at common law or created by statute, is extended, made, or intended by the rendition of consulting services or by furnishing oral or written reports of the findings made.

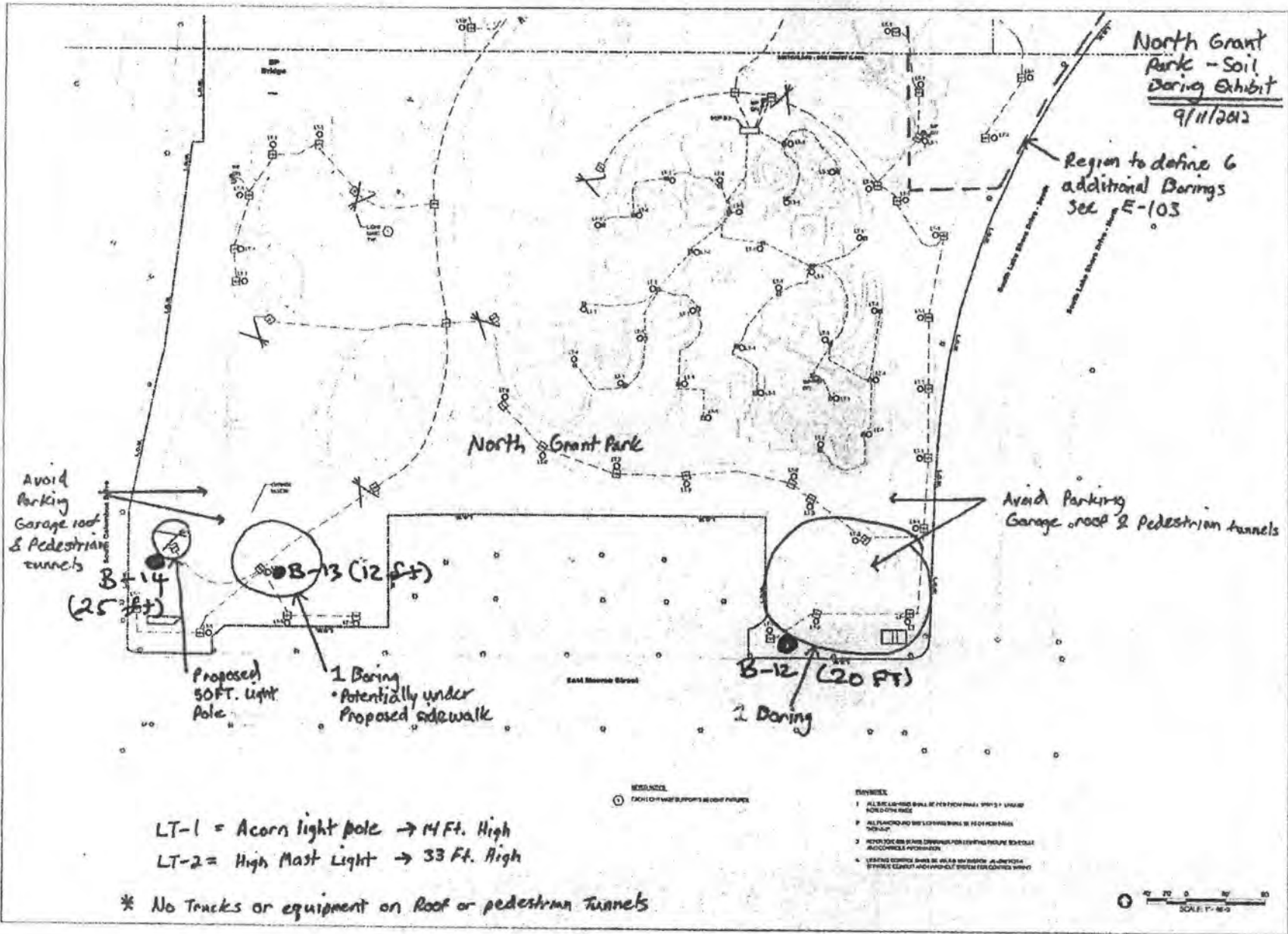
DOB Permit # D12212-01

Chicago Park District - Peanut Park



North Grant
 Park - Soil
 Boring Exhibit
 9/11/2012

Region to define 6
 additional Borings
 See E-103



LT-1 = Acorn light pole → 14 Ft. High
 LT-2 = High Mast Light → 33 Ft. High

* No Trucks or equipment on Roof or pedestrian Tunnels

REMARKS:
 1. EACH LIGHT POLE SUPPORTS 2-3000 WATT PARAPET

- REMARKS:
1. ALL LIGHT POLES SHALL BE PER CITY FINAL SPEC'S & LATEST EDITIONS THEREOF.
 2. ALL PLANNING AND DESIGN SHALL BE IN ACCORDANCE WITH THE CITY OF CHICAGO'S DESIGN MANUAL.
 3. REVISIONS TO BE MADE DURING THE DESIGN PHASE SHALL BE ACCORDING TO THE CITY OF CHICAGO'S DESIGN MANUAL.
 4. LIGHTING CONTROL SHALL BE AS PER THE CITY OF CHICAGO'S DESIGN MANUAL AND SHALL BE SUBJECT TO THE CITY OF CHICAGO'S DESIGN MANUAL.



CHICAGO
 PARK
 DISTRICT

401 NORTH LAUREL STREET
 CHICAGO, IL 60610
 TEL: 312.321.2000
 FAX: 312.321.2000
 WWW: CHICAGO.PARKDISTRICT.ORG

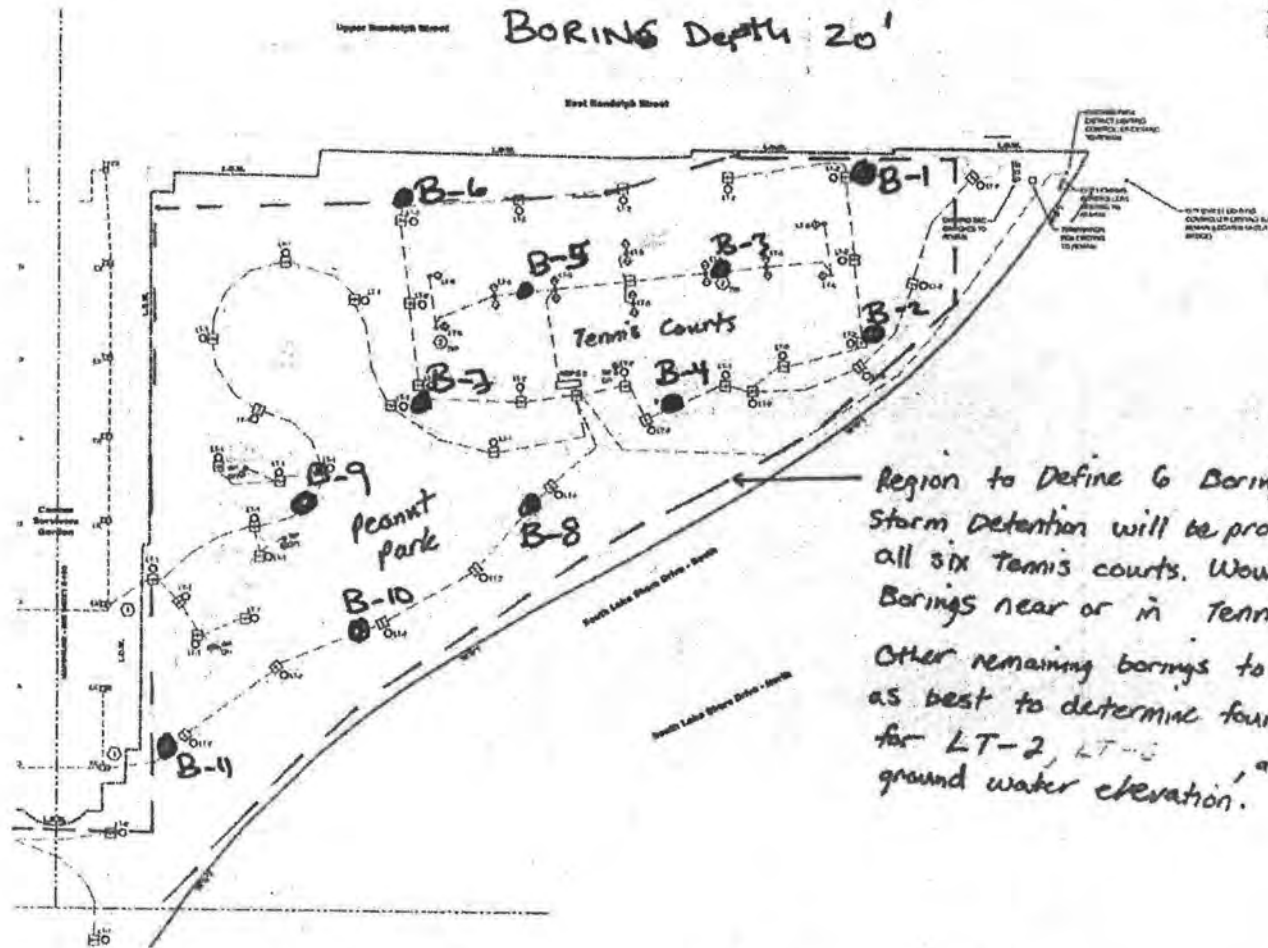
DESIGNER	DATE
DRAWN	DATE
CHECKED	DATE
SCALE	DATE
DATE	DATE
DATE	DATE
DATE	DATE
DATE	DATE

PROJECT NO.	1383
DESIGNER	DES
DRAWN	DES
CHECKED	DES
SCALE	1" = 40'-0"
DATE	09/11/2012
SPEC. NO.	14-3817-00
JOB NO.	14-0041

SHEET INFORMATION	
North Grant Park Renovation Ph. 2	
ELECTRICAL SITE LAYOUT PLAN-2	
65% Const. Doc.	

E-102

North Grant Park -
 Soil Boring Exhibit
 9/11/2012



Region to Define 6 Borings.
 Storm detention will be provided under
 all six tennis courts. Would like 2
 Borings near or in Tennis court area
 Other remaining borings to be located
 as best to determine foundation requirements
 for LT-2, LT-5, and finally the
 ground water elevation.

LT-1 = Acorn Light Pole → 14 Ft. High
 LT-5, LT-2 = High Mast Light Pole → 33 Ft. High

* No Trucks or equipment on Garage Roof or pedestrian Tunnels (North Grant Park to West)

- NOTES:**
1. ALL FIELD SURVEYING AND BORING DATA TO BE PROVIDED TO THE CLIENT IN A REPORT TO BE SUBMITTED TO THE CLIENT WITHIN 30 DAYS OF THE COMPLETION OF THE SURVEY.
 2. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF CHICAGO AND THE STATE OF ILLINOIS.
 3. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF CHICAGO AND THE STATE OF ILLINOIS.
 4. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF CHICAGO AND THE STATE OF ILLINOIS.



CHICAGO
 PARK
 DISTRICT

ARCHITECT
 ENGINEER
 PLANNING
 LANDSCAPE ARCHITECT
 CIVIL ENGINEER
 ELECTRICAL ENGINEER
 MECHANICAL ENGINEER
 PLUMBING ENGINEER
 SANITARY ENGINEER
 STRUCTURAL ENGINEER
 SURVEYOR
 TRAFFIC ENGINEER
 WATER RESOURCES ENGINEER

PROJECT NO.	100
DESCRIPTION	000
DRAWN BY	000
CHECKED BY	000
SCALE	1" = 40\'
DATE	8/17/2012
BY	12/17/02
JOB NO.	100001

North Grant Park
 Renovation Ph. 2

ELECTRICAL
 SITE LAYOUT
 PLAN - 3

85% Const. Doc.

E-103