



AECOM  
303 E. Wacker Drive, Suite 1400  
Chicago, Illinois 60601

312-373-7700 tel

November 19, 2018

Mr. Naren Prasad  
Peoples Gas Light & Coke Co.  
Environmental Services Department  
200 E. Randolph Street, 24<sup>th</sup> Floor  
Chicago, IL 60601

RE: Corrosion Protection \ Anode Installation  
Permit No.: DOT1020922 (Originally DOT985709)  
Permit Address: 161-210 E. Illinois St., Chicago, Illinois  
AECOM Project No. 60157647.114

Dear Mr. Prasad:

Pursuant to conditions specified in a permit (see attached) issued by the City of Chicago, radiation monitoring was required to be performed at the above referenced site. AECOM Technical Services, Inc. (AECOM) provided the required radiation surveillance on November 14, 2018 during excavations to install anodes for service line corrosion protection.

Surveying was performed on the fill removed at two separate locations between 161-210 E. Illinois St. The excavations were approximately 50 and 100-feet west of the intersection of N. St. Clair St. and E. Illinois St. (refer to sketch). The work consisted of two keyhole cores (boring) approximately 18-inch in diameter that were excavated to a depth of approximately 87-inches below ground/pavement surface (bgs). A vacuum truck was utilized during the excavations to reach the termination depth at both locations.

The monitoring did not indicate that the fill soils were above the removal action level established by the U.S. Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The USEPA removal action level 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 recorded using Ludlum Models 2221 survey meter and an unshielded 2 x 2 inch NaI probe (Model 44-10). For the instrument used, the gamma count threshold indicative of the 7.1 pCi/g removal action level is 6,669 (S/N: 172039) counts per minute (cpm) shielded. A background reading was not available due to lack of exposed soil within a close vicinity of the excavations.

The field gamma measurements during the excavation process did not exceed the instrument threshold previously stated and ranged from a minimum of 1,600 cpm to a maximum of 2,800 cpm shielded. The general subsurface stratigraphy for both excavations was road-base and tan backfill sand with some urban fill near the surface. The backfill sand was apparently utilized to fill the excavation when the service line was originally installed. Based on field observations there was no indication of the presence of radiologically-contaminated fill and/or an exceedance of the USEPA removal action level of 7.1 pCi/g total radium. A copy of the CDPH permit, field sketch and tabulated results documenting the work performed are included as attachments.

As part of the permit conditions, a PDF of this letter has been forwarded via email to:

Chicago Department of Public Health  
Attention: Mr. Terry Sheahan  
333 South State Street, Room 200  
Chicago, Illinois 60604

Permit No.: DOT1020922  
Permit Address: 161-210 E. Illinois St.  
Page 2

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

Regards,



Andrew Kozak  
Geologist



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

cc: Terry Sheahan, Chicago Department of Public Health  
Verneta Simon, USEPA

Attachments: Permit  
Sketch and Results

**PERMIT**



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

(STREETERVILLE Right-of-Way)

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 and adjacent right-of way.

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).

Please complete the following:

I have reviewed and understand the documents, maintained by CDPH, regarding environmental contamination of the site and adjacent right-of-way. Further, I will ensure that all work at the subject site and adjacent right-of-way, 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 waste management.

Applicant Name (print): Maria G Oliver Signature: Maria G Oliver

Site Address and Work Location (Describe exact site location and attach map): 161-210 E Illinois

Nature of Work: Corrosion-Installing anodes

Company Name, Address, Phone No.: Peoples Gas, 200 E Randolph, (312) 240-4692

General / Prime Contractor Name, Address, Phone No.: Mohamed Mohamedein (312) 622-8666

Include subcontractor information if applicable) Safety Officer / Phone No. Gyldnis King (312) 240-4464

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

Check if City Department Work [ ] Department Name:

CDOT Permit No.: DOT1020922

Today's Date: 10/24/18 Expected Start Date: 10/26/18 CDPH Approval / Date: [Signature] 10/24/18

Please return this completed form to the Chicago Department of Transportation, Division of Infrastructure Management, Public Way Permit Office, City Hall - Room 905, 121 N. LaSalle St., Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday)

For CDPH Use Only



**PGL WR: 2717861**

**ADDRESS: 161, 210 E. Illinois St.**

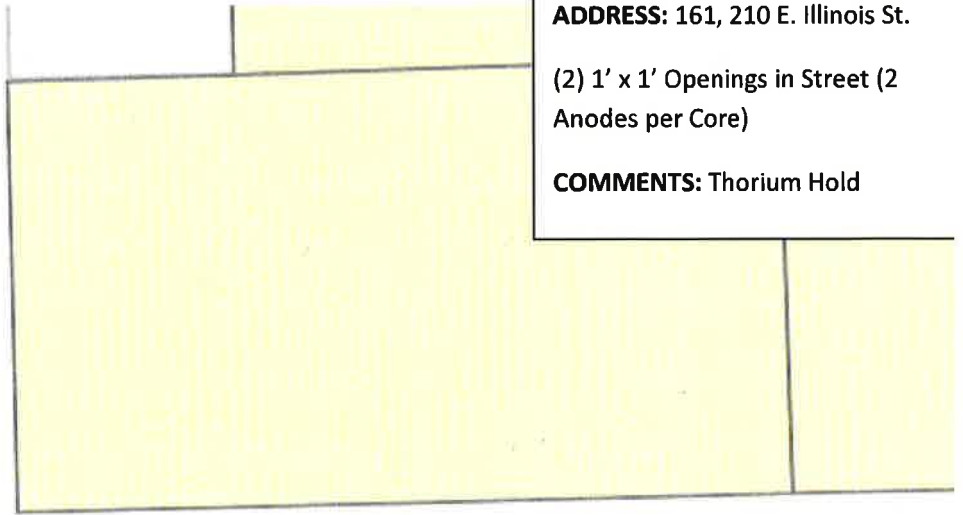
**(2) 1' x 1' Openings in Street (2 Anodes per Core)**

**COMMENTS: Thorium Hold**

N MICHIGAN LOWER AVE (100 E)

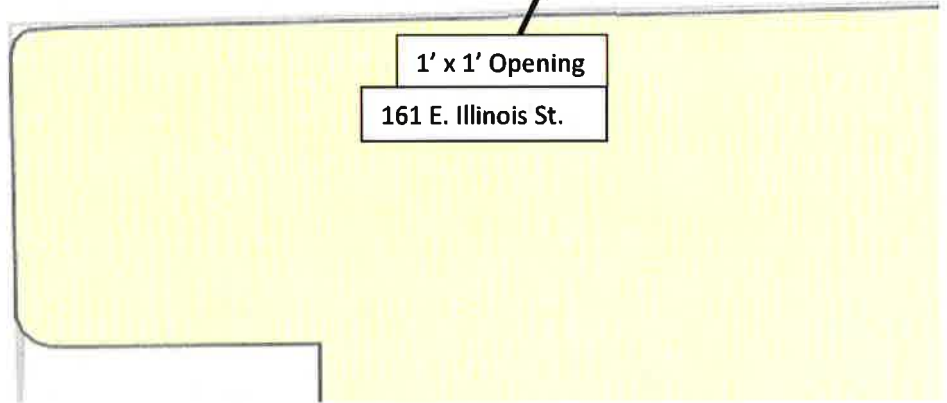


N MICHIGAN AVE (100 E)

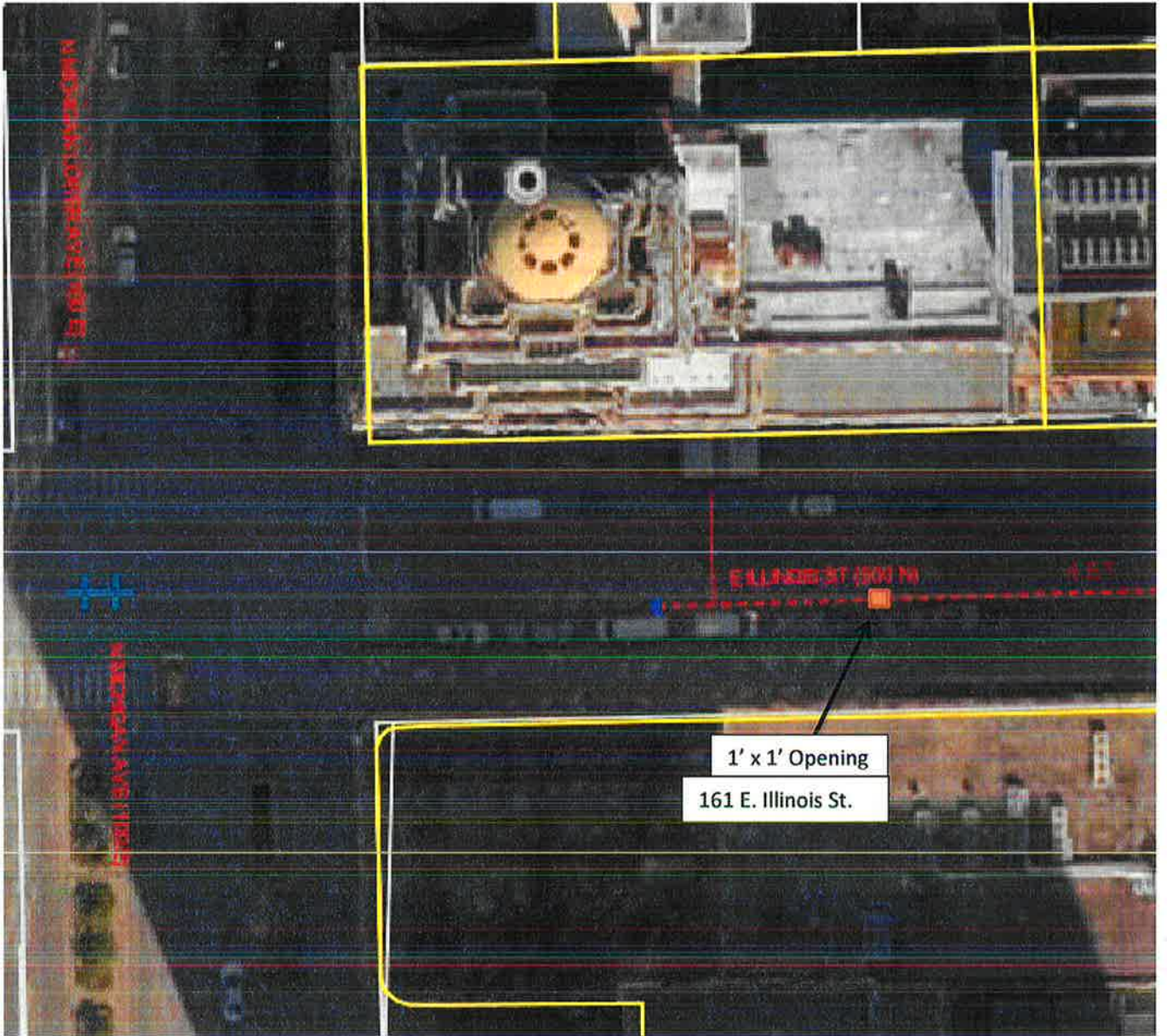


1' x 1' Opening

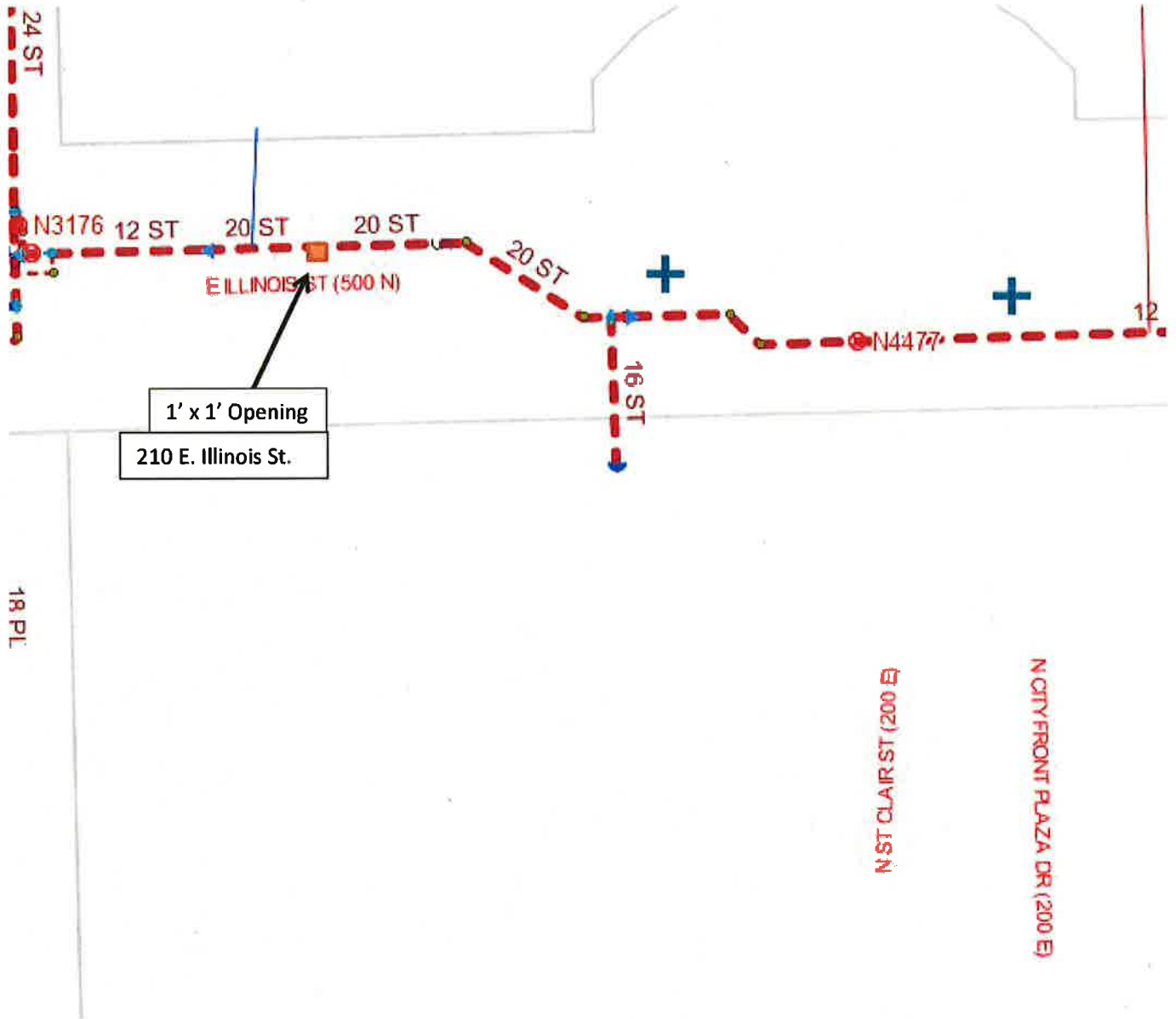
161 E. Illinois St.



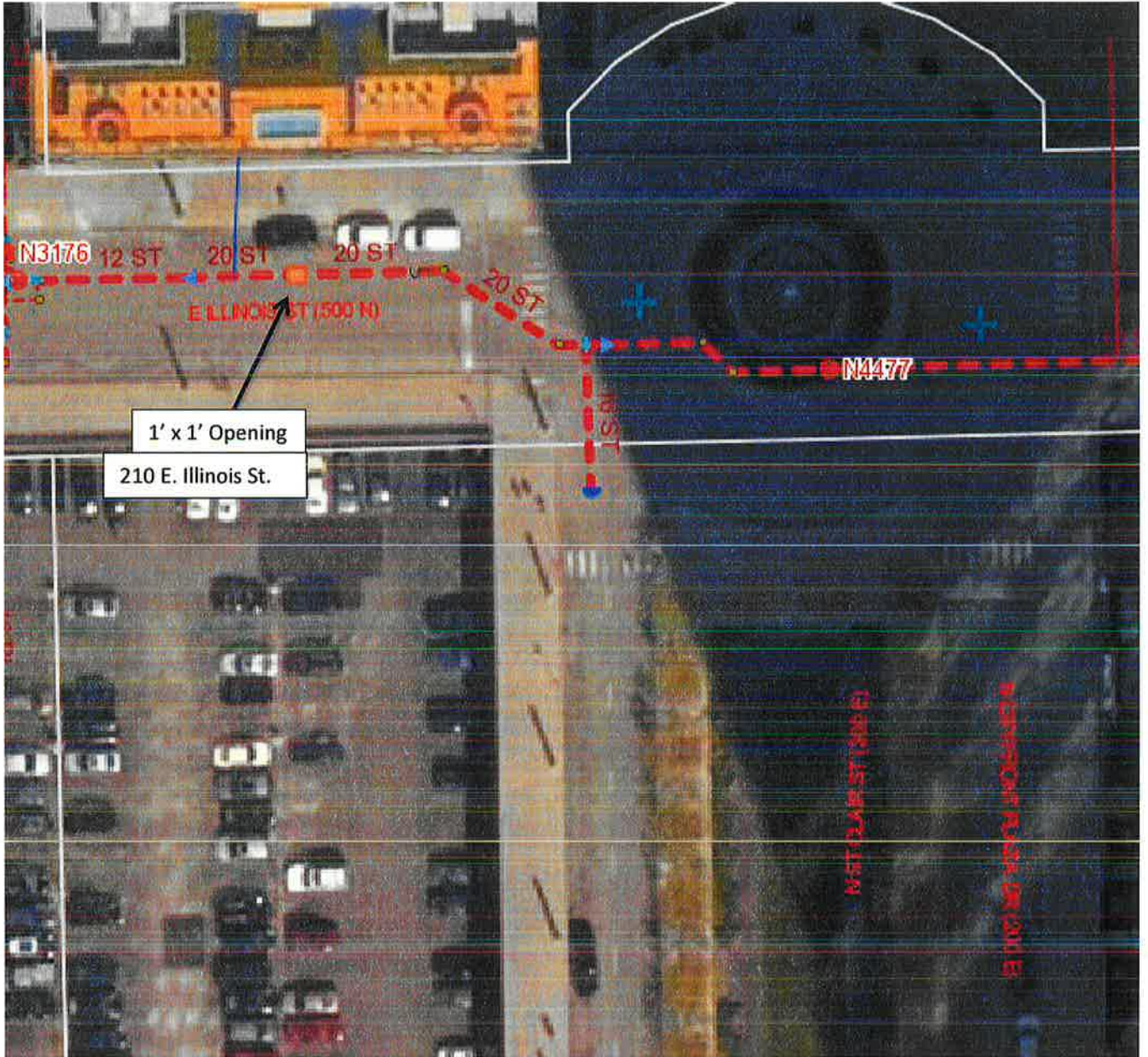




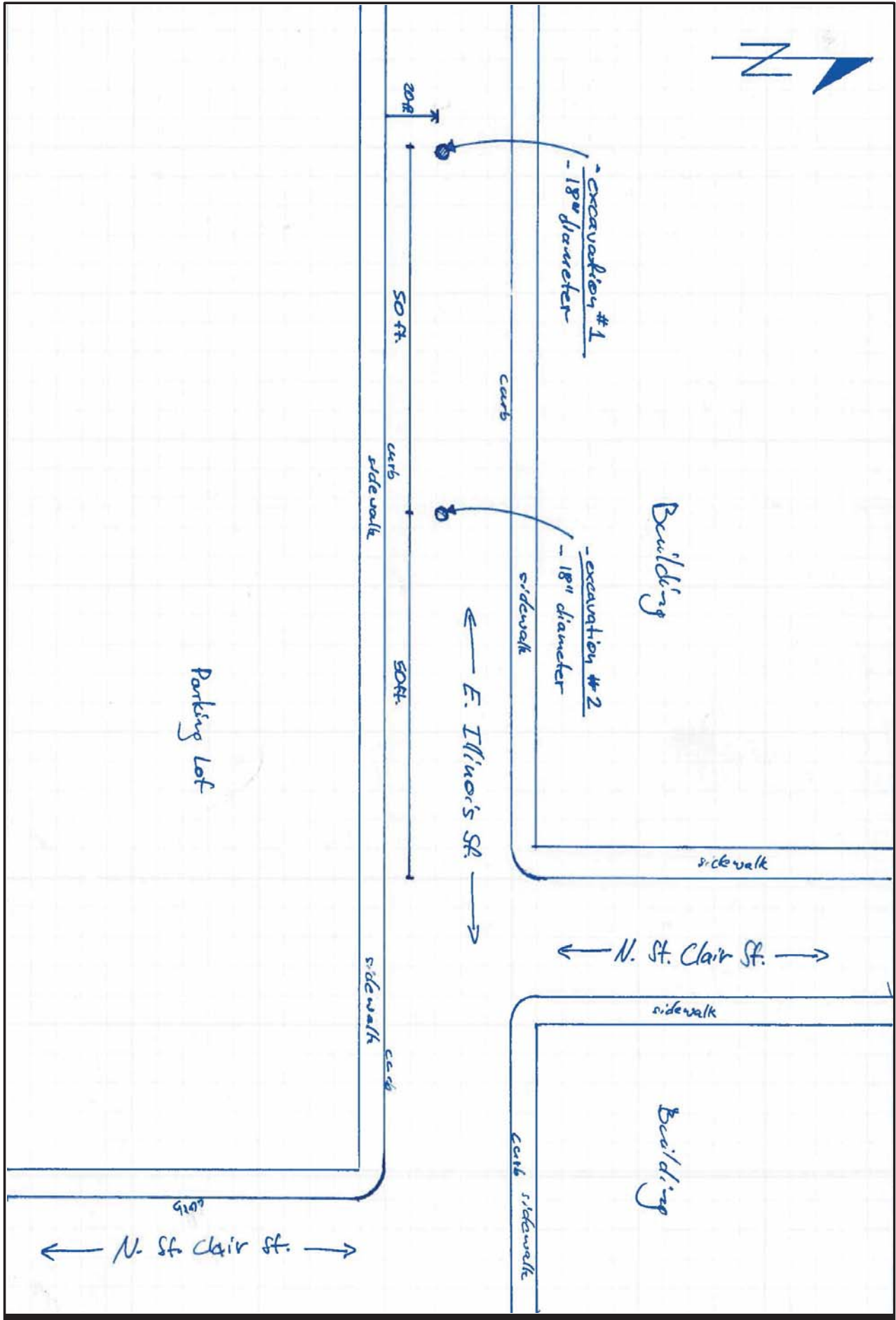
1' x 1' Opening  
161 E. Illinois St.







## SKETCH AND RESULTS



**Gamma Survey Results**  
**161-210 E. Illinois St.**  
**People's Gas**  
**DOT1020922**

**Survey Equipment**

Ludlum 2221 S/N:	172039
Probe 2x2 NaI S/N:	PR179406
shielded cutoff (long cable):	6,669 cpm
background:	-
Personnel:	E. Sulita
Date of Screening:	11/14/2018
Permit #:	DOT1020922

**Survey Results**

Location	Depth (inches)	Readings (CPM)
1	0	concrete/asphalt
	8	1700
	36	2800
	60	2100
	87	2700
2	0	concrete/asphalt
	12	1600
	36	2600
	60	2100
	87	2300