



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

312-373-7700 tel

November 13, 2018

Mr. Alexander Fiebig
Bulley & Andrews Concrete Restoration
1755 W. Armitage Ave.
Chicago, IL

RE: Radiological Survey of Driveway Installations
Permit No.: DOT1016851
Permit Address: 142 E. Ontario St., Chicago, Illinois
AECOM Project No. 60590004.100

Dear Mr. Fiebig:

Pursuant to conditions required by the United States Environmental Protection Agency (USEPA) and the City of Chicago Department of Public Health (CDPH), radiation surveying was required to be performed at the above referenced Site. AECOM Technical Services, Inc. (AECOM) provided the required radiation surveillance on October 15th, 24th and November 1st, 2018 for excavations related to sidewalk replacement.

Surveying was performed within the excavation at 142 E. Ontario St., approximately 80-feet east of the intersection of N. Michigan Ave. and E. Ontario St. The activities occurred within the sidewalk on the north side of E. Ontario St. and included removal of existing concrete sidewalks, regrading of sub-base, and installation of new a sidewalk. The sidewalk replacement was completed in two phases. The northern half of the sidewalk was excavated and screened on October 15 and 24, 2018, while the southern portion was completed on November 1, 2018 (refer to sketch). The total excavation was approximately 78-feet long, 20-feet wide, and excavated to a depth of 6-inches below the ground/pavement surface (bgs).

The monitoring did not indicate that the fill results were above the removal action level established by the 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 Model 2221 survey meter and a shielded 2 x 2 inch NaI probe (Model 44-10). For the instrument used (S/N: 172039), the gamma count threshold indicative to the 7.1 pCi/g removal action level was 6,669 counts per minute (cpm) shielded. The field instrument gamma background for the area was measured between 1,700 and 2,000 cpm shielded. Although none were observed for this project, field gamma measurements greater than twice the field background represent potential anomalous results that require more cautious and frequent field screening but are not necessarily indications of the presence of thorium contaminated fill soil.

The field gamma measurements within the excavations and for the spoil exposed during the excavation process did not exceed the instruments threshold previously stated and ranged from a minimum of 1,300 cpm to a maximum of 3,300 cpm shielded. 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 sketch and table of the survey readings for each of the areas has been included in the attachments.

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As part of the permit conditions, a PDF copy of this letter has been emailed to:

Chicago Department of Public Health
Attention: Mr. Terry Sheahan
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,



Andrew Kozak
Geologist



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

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

Attachments: CDPH Permits
Sketch and Results Table

PERMITS



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

FORM NO. CDPH.ROW.03 (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. This environmental contamination could present a threat to human health and safety in connection with work performed at the site, or in the adjacent right-of-way, 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 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. I will ensure that the results of any radiation monitoring and/or surveying conducted shall be provided to the 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): Alexander Fiebis Signature:

Site Address and Work Location (Describe exact site location and attach map):

142 E. Ontario (Front Sidewalk)

Nature of Work: Sidewalk Replacement

Company Name, Address, Phone No.: Bulley & Andrews Concrete Restoration / 1755 W. Armitage Ave. Chicago, IL.

General / Prime Contractor Name, Address, Phone No.: Bulley & Andrews Concrete Restoration / 773-645-5978
Include subcontractor information if applicable

Safety Officer / Phone No. Greg Marquez / 773-645-1205

Radiation Contractor / Phone No. (if applicable) AECOM / 312-373-7700

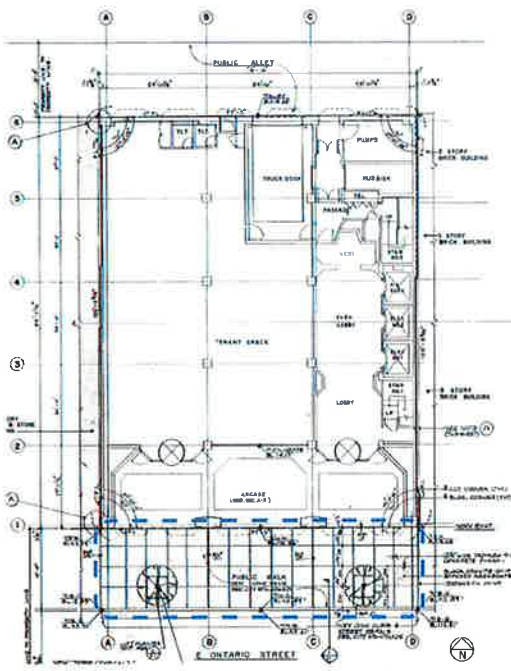
Check if City Department Work Department Name: _____

CDOT Permit No.: DOT 1016851

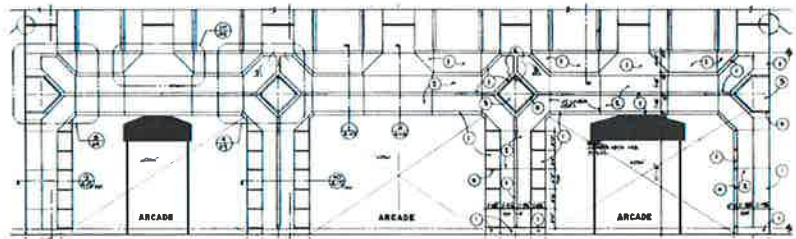
Today's Date: 10/10/18 Expected Start Date: 10/12/18 CDPH Approval / Date: Wheeler 10/10/18

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)

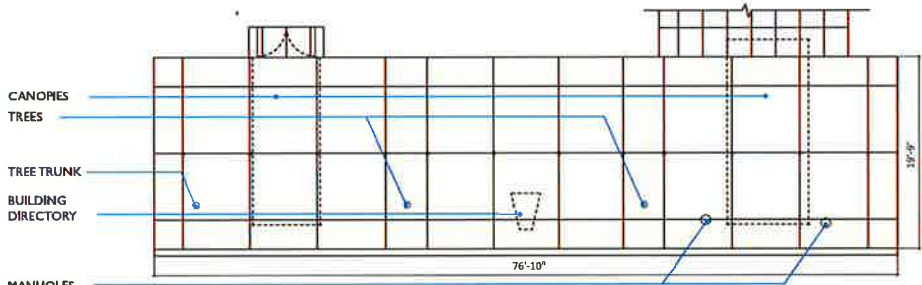
For CDPH Use Only



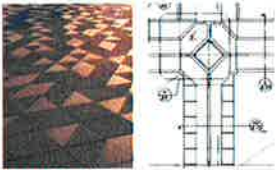
SITE PLAN - NTS



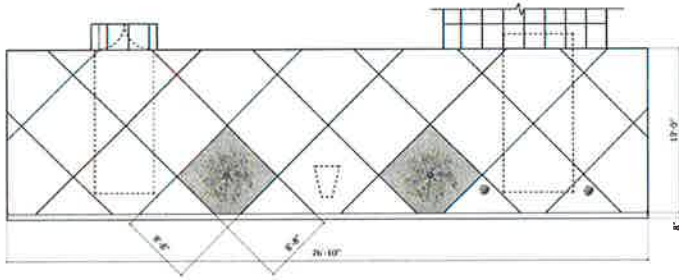
SOUTH ELEVATION - GROUND LEVEL - NTS



CURRENT SIDEWALK PATTERN - NTS



INSPIRATION

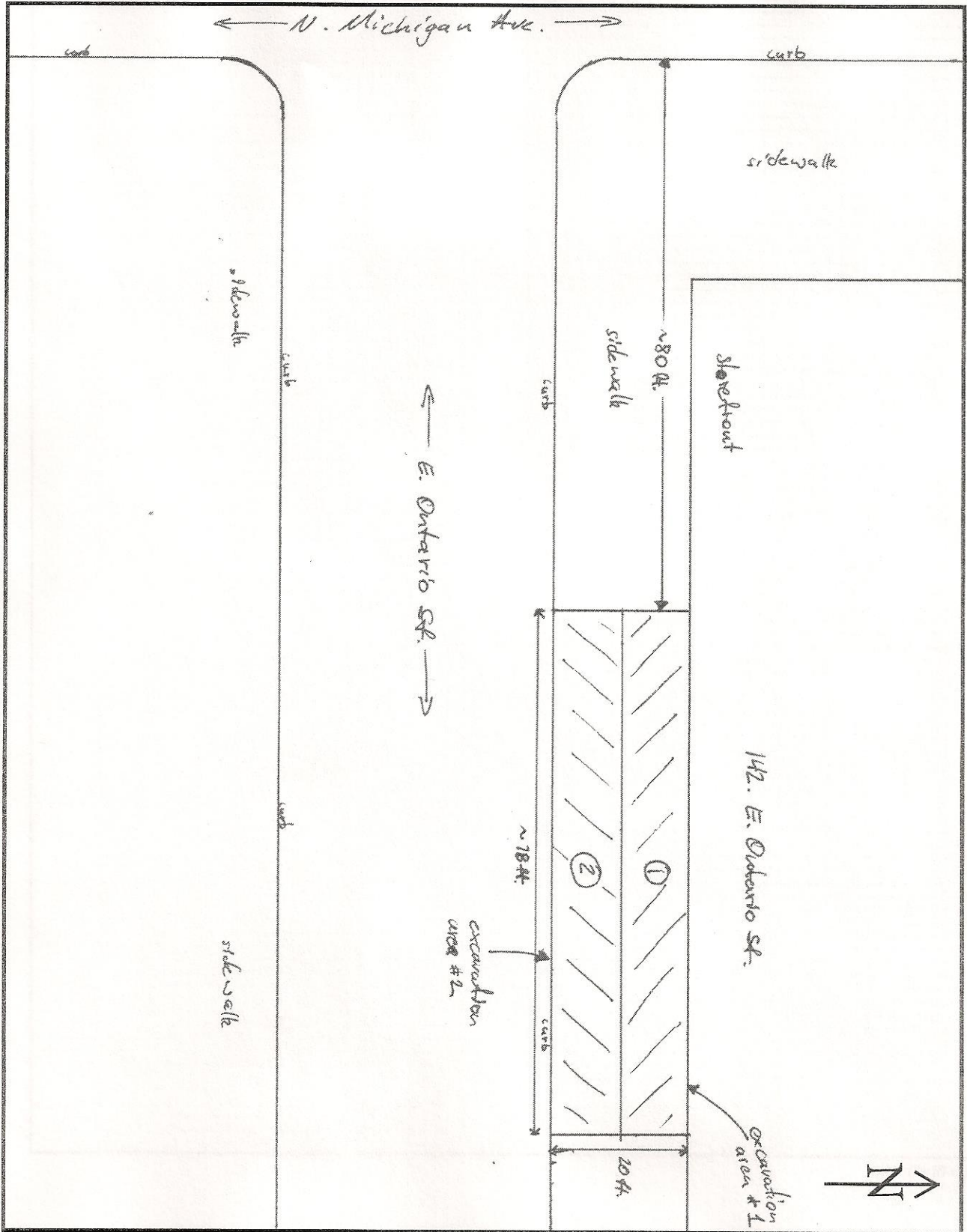


PROPOSED JOINTS



3D VIEW

SKETCH AND TABLE



Gamma Survey Results
142 E. Ontario St.
Bulley and Andrews Concrete Restoration
DOT1016851

Survey Equipment

Ludlum 2221 S/N:	172039
Probe 2x2 NaI S/N:	PR174406
shielded cutoff (long cable):	6,669 cpm
background:	2,000 cpm
Personnel:	D. Domino
Date of Screening:	10/15/18, 10/24/18, 11/1/18
Permit #:	DOT1016851

Survey Results

Location	Depth (inches)	Readings (CPM)
1	0	concrete
	6	1,400 - 2,400
2	0	concrete
	6	1,600 - 2,800