



AECOM
100 S. Wacker Drive, Suite 500
Chicago, Illinois 60606

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312-939-4198 fax

July 12, 2018

Anton Collins
Powers Construction
8750 W. Bryn Mawr Ave., Suite 500
Chicago, Illinois 60631

RE: Radiological Survey of a Sidewalk and Curb Replacement
Permit No.: DOT682865, DOT879416, DOT682898, DOT779827, DOT944016
Permit Address: 465 N. Park Ave., Chicago, Illinois
AECOM Project No. 60508241

Dear Mr. Murphy:

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 11 and 13, 2016 as well as May 22, June 20 and 22, 2018, for replacement of existing concrete sidewalk and curb.

Surveying was performed within the excavation areas after the removal of the pavement and on the spoil removed within the ROW at 465 N. Park Ave. (refer to annotated drawing). The excavation involved removal of existing concrete sidewalks and curb along the north and east sides of the property. North side of the property is located along E. Illinois Street, while the east side of the property is located along N. New Street. Along the north side of the property the excavation was approximately 250-feet long and 20-feet wide, while along the east side of the property the excavation was approximately 160-feet long and 15-feet wide. Pavement was removed in sidewalk areas to approximately 6-inches below the original pavement surface, while the curb areas were excavated to 12-inches.

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 a 2 x 2 inch NaI probe (Model 44-10). Two separate instruments were utilized for the gamma surveys performed during sidewalk replacement. During 2016 the instrument gamma count threshold indicative of the 7.1 pCi/g removal action level was 7,018 (S/N: 172039) counts per minute (cpm) shielded, while in 2018 instrument gamma count threshold indicative of the 7.1 pCi/g removal action level was 7,293 (S/N: 326720) cpm shielded. The background readings were determined by collecting several 1-minute counts at separate locations within the property. Based on the six readings collected, the background gamma value was determined to be 1,670 cpm shielded (S/N: 172039).

The field gamma measurements within the excavation areas and of the spoil during the excavation process did not exceed the instrument threshold previously stated and gamma readings were observed between 1,100 cpm and 3,700 cpm shielded. A single area was screened with an unshielded probe. Reading with the unshielded probe ranged between 3,600 cpm to 5,700 cpm. The majority of the subsurface material encountered was gravel sub-base, which is composed 1-inch stone. 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. Copies of the permits and an annotated drawing documenting the areas where work was performed have been included as attachments.

As part of the permit conditions, this letter has been forwarded 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: Permits
Annotated Drawing and Results

PERMITS

Permit # DOT682865

**DOT Construction Canopy Permit
Construction**



City of Chicago
Department of Transportation
(312) 744-4652

Replacement of DOT652035

ISSUED

Received Date: August 18, 2016 10:33 am

DESIGNED EQUIPMENT CORPORATION
1510 LUNT AVENUE
ELK GROVE VILLAGE, IL 60007-5622
U.S.A.

ANTON COLLINS (847) 647-5000

Issued: 08/19/2016

PERMIT REQUESTED DATES
August 21, 2016 through June 28, 2018

PERMIT DETAILS
Ward(s): 42
Building owner: JUPITER REALTY
Phone Number: (312)924-1540
Description of Work: PW Permit for 250' of Traffic Lane Closure to stage a Pedestrian Canopy.
The canopy(s) is/are required to conduct CONSTRUCTION at the work site.
Canopy - Constr (Traffic Lane):
Placement of a 250 foot Heavy Duty Rolling. A Lane of at least 10 feet is left Open/Unobstructed for the duration of the permit.
313 - 335 E ILLINOIS ST
Additional Information: DOT680079

Subcontractors:

BURNHAM NATIONWIDE, INC.
111 W. WASHINGTON ST. APT./SUITE 450
CHICAGO, IL 60602
U.S.A.
(312)407-7990

Restrictions:

1. A copy of the permit must remain on-site for inspector's review.
2. Storage of material or equipment WILL NOT be allowed on the Canopy unless a letter is submitted to the Public-Way Permit Office from a State of Illinois licensed structural engineer stating that the vaulted sidewalk can structurally support the weight of the Canopy and materials/equipment.
3. Pedestrian walkway must be kept free of all obstructions and debris.
4. Sight clearance of all traffic signals and regulatory signs must be maintained at all times.
5. Maintain fire hydrant and manhole access.
6. Construction and maintenance of permitted canopy must be in conformity with all pertinent provisions of the Municipal Code of Chicago and the Chicago Department of Transportation Regulations for Openings, Construction, and Repair in the Public Way including, but not limited to, provisions pertaining to accessibility requirements for persons with disabilities.

Fees:

Permit # DOT879416

**DOT Occupy the Pub. ROW Permit
Work Vehicles, Temporary Driveways,
Barricades, Operating Equipment**



City of Chicago
Department of Transportation
(312) 744-4652

Received Date: October 26, 2017 5:18 pm

Park Drive Lane Closure

ISSUED

POWER CONSTRUCTION CO
** 8750 W. BRYN MAWR AVE
STE: 500
CHICAGO, IL 60631
U.S.A.

ANTON COLLINS (847)647-5000

Issued: 11/17/2017

PERMIT REQUESTED DATES

October 30, 2017 through June 28, 2018

PERMIT DETAILS

Ward(s): 42

General Occupy

ParkWork Vehicle Type:

465 - 479 N PARK DR

Closure: Partial

Additional Information: PW Permit for 200' of Curb Lane Closure for New Construction. In conjunction with DOT682898

Barricades

Placement: CurbLane

Length (ft): 200

Materials Stored: Stage 24/7 Construction fence and New construction equipment

Start Date: 10/30/2017

End Date: 06/28/2018

Subcontractors:

BURNHAM NATIONWIDE, INC.
111 W. WASHINGTON ST. APT./SUITE 450
CHICAGO, IL 60602
U.S.A.
(312)407-7990

Restrictions:

1. For Operating Equipments and Park Work Vehicles, If Arterial Street inside CBD, Then Start no earlier then 8:00 P.M. and end no later then 6:00 A.M.
2. A copy of the permit must remain on-site for inspector's review.
3. Permittee must provide a sign which identifies the telephone number and company or person performing the work. Signage may be affixed to barricades.
4. For Operating Equipments and Park Work Vehicles, If Non-Arterial Street inside CBD, Then Start no earlier then 8:00 P.M. and end no later then 6:00 A.M.
5. For Operating Equipments and Park Work Vehicles, If Arterial Street Outside CBD, Then Start no earlier then 9:00 A.M. and end no later then 4:00 P.M. or 7:00 PM to 6:00 AM.
6. All work shall be in accordance with CDOT Rules and Regulations for Construction in the Public Way and City of Chicago Municipal Code. Work to be performed as per plans and specifications. All traffic control will be the responsibility of the contractor, and must comply with all CDOT and MUTCD standards.
7. Pedestrian walkway must be kept free of all obstructions and debris.

Permit # DOT682898

**DOT Occupy the Pub. ROW Permit
Work Vehicles, Temporary Driveways,
Barricades, Operating Equipment**



City of Chicago
Department of Transportation
(312) 744-4652

Replacement of DOT652067

ISSUED

Received Date: August 19, 2016 9:42 am

POWER CONSTRUCTION CO
** 8750 W. BRYN MAWR AVE
STE: 500
CHICAGO, IL 60631
U.S.A.

ANTON COLLINS (847)647-5000

Issued: 08/19/2016

PERMIT REQUESTED DATES
August 21, 2016 through June 28, 2018

PERMIT DETAILS
Ward(s): 42
General Occupy
ParkWork Vehicle Type: N/A
465 - 479 N PARK DR

Closure: None
Additional Information: PW Permit for 200' of Full Sidewalk Closure to stage a 24/7 Sidewalk Closure. 18" will be mai
Barricades
Placement: SidePark-F
Length (ft): 200
Materials Stored: Stage 24/7 Construction Fence
Start Date: 08/21/2016
End Date: 06/28/2018
Governor Date: 06/22/2016

Subcontractors:

BURNHAM NATIONWIDE, INC.
111 W. WASHINGTON ST. APT./SUITE 450
CHICAGO, IL 60602
U.S.A.
(312)407-7990

Restrictions:

1. A copy of the permit must remain on-site for inspector's review.
2. Permittee must provide a sign which identifies the telephone number and company or person performing the work. Signage may be affixed to barricades.
3. Pedestrian walkway must be kept free of all obstructions and debris.
4. Maintain fire hydrant and manhole access.
5. 24 / 7 CLOSURE
6. REDIRECT PEDESTRIANS TO THE OPPOSITE SIDE OF THE STREET
7. IN CONJ WITH PERMIT NO. DOT652067 & NSR PERMIT NO. 667474488
8. APPROVED BY JMAC

NOTE: PERMIT PAID UP TO APRIL 16TH

Fees:

Permit # DOT779827

**DOT Occupy the Pub. ROW Permit
Work Vehicles, Temporary Driveways,
Barricades, Operating Equipment**



City of Chicago
Department of Transportation
(312) 744-4652

Received Date: March 29, 2017 4:48 pm

Replacement New St. Permit

AMENDED

POWER CONSTRUCTION CO
** 8750 W. BRYN MAWR AVE
STE: 500
CHICAGO, IL 60631
U.S.A.

ANTON COLLINS (847)647-5000

Issued: 04/05/2017

PERMIT REQUESTED DATES

April 02, 2017 through June 28, 2018

PERMIT DETAILS

Ward(s): 42

General Occupy

ParkWork Vehicle Type: N/A

470 - 478 N NEW ST

Closure: Partial

Barricades

Placement: SidePark-F

Length (ft): 200

Materials Stored: Stage 24/7 sidewalk with pedestrians rerouted across the street

Start Date: 04/02/2017

End Date: 06/28/2018

Governor Date: 06/22/2016

Temporary Driveways

Width (ft): 25

Start Date: 04/02/2017

End Date: 06/28/2018

Operating Equipment

Placement: CurbLane

Length (ft): 175

Equipment Stored: Delivery and Dump trucks, work vehicles

Start Date: 04/02/2017

End Date: 06/28/2018

Governor Date: 06/22/2016

Subcontractors:

BURNHAM NATIONWIDE, INC.
111 W. WASHINGTON ST. APT./SUITE 450
CHICAGO, IL 60602
U.S.A.
(312)407-7990

Restrictions:

1. For Operating Equipments and Park Work Vehicles, If Arterial Street inside CBD, Then Start no earlier then 8:00 P.M. and end no later then 6:00 A.M.

ANOTATED DRAWING AND RESULTS

465 N. Park Ave.
Sidewalk\Curb Replacement

Survey Equipment

Ludlum 2221 S/N:	326720 / 172039
Probe 2x2 NaI S/N:	PR360158 / 174496
Shielded (S/N: 326720):	7,293cpm
Unshielded (S/N: 172039):	17,253 cpm
Shielded (S/N: 172039):	7,018 cpm
Background:	1,670 cpm shielded
Source Block:	-
Personnel:	S. Kornder, A. Kozak, K. Korczak
Date:	11/13/2016, 11/17/16, 5/22/18, 6/20/18, 6/22/18

Survey Results

<u>Section</u>	<u>Depth</u>	<u>Readings</u>
1	6"	1200-2030**
2	6"	1100-2231**
3	6"	1450-2350**
4	6"	1380-1620**
5	6"	1280-1925**
6	6"	1275-1750**
7	6"	1280-1820**
8	6"	1440-2320**
9	6"	3600-5700 ***
10	6"	1400-2600*
11	6"	1200-2100*
12	6"	1300-2000*
13	12"	1400-2700*
14	12"	1200-2400*
15	12"	1600-3700*
16	12"	1600-2000*
17	12"	1400-2100*
18	6"	1700-3300*
19	6"	1000-2500*
20	6"	1000-2000*
21	6"	1300-2300*

Notes: * sections screened using a shielded ludlum (s/n: 326720) during 2018.
 ** sections screened using shielded ludlum (s/n: 172039) during 2016.
 *** section screened using unshielded ludlum (s/n: 172039) during 2016.