



AECOM
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January 27, 2016

Mr. Keith Stocker
AG-OCG 360 North Michigan LLC
C/O Oxford Capital Group
350 W. Hubbard #440
Chicago, IL 60610

RE: Radiological Survey of Right-of-Way Utility Excavation
Permit No.: DOT394961
Permit Address: 360 N. Michigan Avenue
AECOM Project No. 60335469

Dear Mr. Stocker:

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 January 11, 2015 for an installation of an electric line.

Surveying was performed on the soil removed at 360 N. Lower Michigan Ave. (see sketch) to a depth of 4-feet below ground surface (bgs) at the east end of the trench and 7-feet bgs at the west end of the excavation to add an electrical line installation.

The monitoring did not indicate that the fill and/or soil 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 made using Ludlum Model 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 18,078 counts per minute (cpm) unshielded.

The field gamma measurements within the excavation did not exceed the instrument threshold previously stated with unshielded maximum values of 7,700 cpm and 9,300 cpm in the respective sections of the excavation. The background field measurement was approximately 7,200 cpm. Thus, there was no indication of the presence of radiologically-contaminated material and/or an exceedance of the USEPA removal action level of 7.1 pCi/g total radium. A copy of the permit and a field sketch documenting the area where the work was performed is attached.

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

Permit No.: DOT394961
Permit Address: 360 North Michigan Avenue

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 Geoscientist

cc: Rahmat Begum, Chicago Department of Public Health
Verneta Simon, USEPA

Attachments: Permit
Sketch

PERMIT

Permit # DOT394961

**DOT Public Way Opening
Opening in the Public Way**



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

Received Date: November 5, 2015 12:00 am

ISSUED

NORMAN MECHANICAL INC
3850 INDUSTRIAL DRIVE
ROLLING MEADOWS, IL 60008

KEVIN COURSE 847-253-2238

PERMIT DATES

November 05, 2015 through January 31, 2016

PERMIT DETAILS

Public Way Opening for the purpose: GENERATOR FEED

Excavation may commence on November 05, 2015 - NO SOONER

360 N MICHIGAN LOWER AVE - Number of Openings: 1

Curb Lane

20 Ft (L) x 2 Ft (W) x 4 Ft (D)

Subcontractors:

There are no subcontractors.

Restrictions:

1. Must use flagmen and/or arrow boards to maintain traffic operations through the work zone.
2. Work to be performed as per plans and specifications.
3. Start no earlier than 9 AM.
4. All directional boring must be pre-approved by the Office of Underground Coordination.
5. Restore all lanes to normal operation during non-working hours.
6. When applicable, all excavation areas are to be clearly marked in safety white paint prior to calling DIGGER. White paint is not required for joint meets or emergency work.
7. It is the responsibility of the applicant to fund Traffic Control Aides if the City deems it necessary due to heavy congestion situations.
8. Excavators requesting dig tickets are responsible for the protection of utility markings at the job site. Any markings of underground utilities utilizing utility colors, must be done by facility owners or authorized agents only.
9. All pavements and pavement markings are to be restored in accordance with CDOT Construction Standards.
10. All metal plates used for public way construction or placed within the right-of-way must indicate Ownership!
11. All traffic control will be the responsibility of the contractor and must comply with all MUTCD standards.
12. Contractor must notify DIGGER at 312-744-7000 no less than 48 hours (exclusive of Saturdays, Sundays and Holidays) but no more than 14 calendar days in advance of the start of the excavation or demolition, unless the excavation date was provided with the application and remains unchanged. Prior to 26 calendar days the Contractor must notify DIGGER to renew the dig date!
13. It is the Excavator's responsibility to request refreshing of marks when needed, but no longer than 28 calendar days after the last requested date.
14. Pursuit to City Ordinances 8-32-140 through 170 use of pneumatic equipment must not begin before 8:00 A.M. or continue after 8:00 P.M.
15. Permittee must provide a sign which identifies the telephone number and company or person performing the work. Signage may be affixed to barricades.
16. Pursuit to City Ordinances 10-20-150 and 10-28-281.3 a re-inspection fee of \$100 may be assessed for each inspection conducted after the initial inspection.
17. Work permitted only between 9 AM and 4 PM.
18. Permanent base pavement restoration to follow within 5 days after the completion of underground work.
19. Contractor must secure plating over all openings in the roadway and secure all sidewalk/parkway openings during non-working hours until such time when the road surface is restored.

- 20. Permit fees must be paid within 24 hours of the date of issuance. Failure to pay will result in you being considered in violation of the terms and agreement of the permit and subject to any applicable fine and fees as if you never attained a permit. Additionally, you will still be responsible for the cost of the original permit. Monthly billing accounts are not applicable to the 24 hour payment criteria but failure to pay the monthly bill by the due date will result in the same penalties applying.
- 21. All street openings must be restored with concrete base to grade.
- 22. BIKE FACILITY: On streets with bike markings and/or bike signage the CDOT Bike Program can provide existing pavement marking plans and details. Please contact CDOT Bike Program representative Bradley Topol in advance of activity to ensure restoration of pavement markings. Contact at (312) 744-0513 or at CDOTBikes@cityofchicago.org

SHARED LANE YIELD TO BIKES signs must be posted if bike traffic is shared with vehicular traffic. Please see the CDOT Rules and Regulations For Construction in the Public Way for more guidance on bike temporary traffic control.

- 23. No work in or use of the public right of way is to be done when a special event is taking place. It is up to the applicant to determine if an event is scheduled. To obtain a listing of programs or events within the City of Chicago please dial 311 when you are within the City boundaries.
- 24. A copy of the permit must remain on-site for inspector's review.
- 25. Stop no later than 4 PM.

Fees:

11/05/2015 NSR_PWO - Curbs/Gutters Maint/Constr Fee

CAPS:		AH41
Amount:	\$	454.00

Total Fees: \$454.00

EFFECTIVE DATES OF PERMIT

Current: November 05, 2015 through January 31, 2016 (Input date: November 5, 2015 12:00 am)

END OF PERMIT

SKETCH

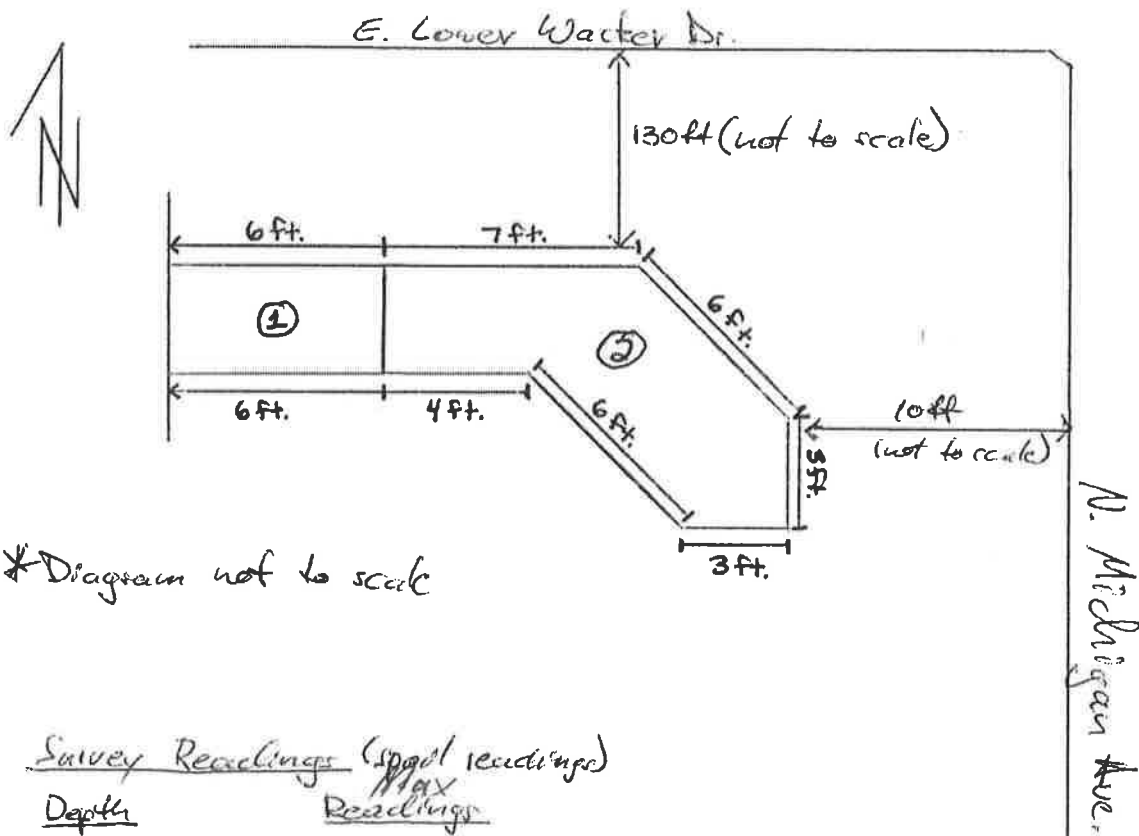
Job _____
 Description 360 N. Michigan Ave
N. Michigan & Lower Wacker Dr

Project No. 60535469 Sheet 1 of 1
 Computed by Andrew Kozatz Date 1/11/16
 Checked by _____ Date 1/19/16

Reference

Survey Equipment

Ludlum-2221 S/N: 176944
 Probe 2x2 NaI S/N: RN71187
 unshielded: 18078 cpm
 shielded: 6,123 cpm
 background: 7,200 cpm (tree branch on upper Michigan)



*Diagram not to scale

Survey Readings (spot readings)

<u>Depth</u>	<u>Max Readings</u>
① 0-7ft bgs	9,300 cpm
② 0-4ft bgs	7,700 cpm