AECOM
303 E. Wacker Drive, Suite 1400
Chicago, Illinois 60606

312-373-7700 tel
312-373-6800 fax

December 6, 2018

Mr. Robert Wilson
Mobilitie, LLC
120 S. Riverside Plaza, Suite 1800
Chicago, IL 60606

RE: Small Cell Wireless Installation – 316-400 E. Ontario St.
Permit No.: DOT1019656
Permit Address: 316-400 E. Ontario St., Chicago, Illinois
AECOM Project No. 60579801

Dear Mr. Wilson:

Pursuant to conditions specified in a permit (attached) issued by the City of Chicago Department of Public Health (CDPH), radiation monitoring was required to be performed at the above referenced site. AECOM Technical Services, Inc. (AECOM) provided radiation surveillance on November 8, 2018 for the installation of the small cell wireless service.

The proposed excavation work consisted of a shallow trench excavation across E. Ontario Street and two openings in the northern E. Ontario Street sidewalk (refer to annotated drawing). The length of trench was approximately 39-feet with a width of 1-ft and depth of 42-inches. The western sidewalk opening was at the northern end of the trench. The eastern sidewalk opening was approximately 60 feet east of the trench. It included the installation of a new utility pole foundation and had a final excavation depth of 9-feet. Horizontal boring equipment was utilized to install new conduit between the two sidewalk openings.

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 a Ludlum Model 2221 survey meter and a shielded 2 x 2-inch Nal probe (Model 44-10). For the instrument (S/N: 172039) used the gamma count threshold indicative of the 7.1 pCi/g removal action level is 6,669 counts per minute (cpm) shielded for the 6-foot probe cable and 6,456 cpm for 15-foot probe cable. A field instrument background was collected at one of the nearby tree pits. The field instrument background gamma reading collected with the short probe cable was 1,200 cpm.

The trench excavation across E. Ontario Street was completed early in the afternoon of November 7, 2018. The spoils from the excavation consisted of approximately 12-inches of asphalt and concrete pavement followed by a layer of gravel subgrade base. The lower portions of the trench were a mixture of gravel and fill. The trench was backfilled with CA7 gravel and concrete. The incorrect contractor was inadvertently listed on the CDPH form. AECOM did not become aware of the start of the field work until the afternoon of November 7, 2018. At that time, the trench excavation had been completed and had just been backfilled, so screening of the trench excavation and spoil was not able to be performed. AECOM followed up with the contractor and determined that spoil from the narrow trench was predominantly composed of gravel. Since the trench with was narrow, the volume of spoil (minus the pavement) was only a couple of yards. These spoils from the trench excavation were transported to a landfill for disposal.

The western sidewalk opening was primarily performed to connect the conduit from the trench to that installed beneath the sidewalk. Minimal vertical excavation was required at this opening, so the gamma monitoring was limited to a surface survey after the removal of the 6-inches of concrete pavement. Gamma readings for the western sidewalk excavation for the 6-24 inch fill horizon ranged from 1,600 to 2,000 cpm with the shield probe and short cable.

The eastern sidewalk opening was performed to install a new utility pole foundation and make connections to the new conduit. After removal of the concrete pavement, the gamma readings for the exposed fill ranged from 1,200 to 1,800 cpm with a shielded probe and short cable. Gamma readings were collected as vertical excavation proceeded utilizing a hydro-vacuum truck. The excavation was conducted to remove the existing foundation as well as install a new foundation (refer to photos). The gamma readings for the foundation excavation were conducted with a long cable and shielded probe (cutoff threshold 6,456 cpm). The gamma readings ranged from approximately 1,200 to 2,500 cpm. The highest readings (2,100-2,500 cpm) were observed at a depth of 3-feet and readings decreased to 1,700 cpm at the base of the 9-foot deep excavation.

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). The field gamma measurements within the excavations during the excavation process did not exceed the instrument threshold previously stated and ranged from a minimum of 1,200 cpm to a maximum of 2,500 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 copy of the permit, annotated drawing and photographs documenting work performed have been included as attachments.

As part of the permit conditions, a PDF of this letter has been emailed to the USEPA and 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
Jose J Galvez, Lyons-Pinner

Attachments: CDPH Permit
Annotated Drawing
Photographs

CDPH 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. 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): Robert Wilson Signature: Robert J Wilson

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

316-400 E Ontario Street (see attached construction drawings)

Nature of Work: Attach small cell wireless equipment to replacement light

Company Name, Address, Phone No.: Mobilitie, LLC, 120 S. Riverside Plaza, Suite 1800, Chicago, IL, 60606, (312) 343-4882

General / Prime Contractor Name, Address, Phone No.: John Burns Construction Co., Chris Seibel, 17601 Southwest Hwy, Orland Park IL, 60467, 708 326 3350 (office); 708 670 6733 (mobile)
Include subcontractor information if applicable)
Safety Officer / Phone No.

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

Check if City Department Work ☐ Department Name:

CDOT Permit No.: DOT1019656

Today's Date: 10/15/2018 Expected Start Date: 10/22/2018 CDPH Approval / Date J Sleeman 10/15/18

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

mobilitie®
intelligent infrastructure

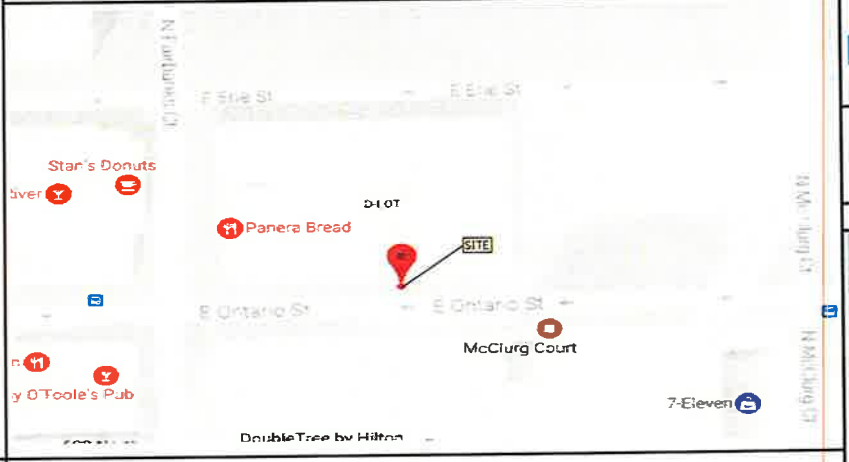
SITE ID

DASC_CH90XSHA5A

SITE ADDRESS

42ND WARD – 316-400 E. ONTARIO ST.

REGIONAL MAP



WORK ORDER NO. : 11617010

mobilitie®
intelligent infrastructure

EJM ENGINEERING, INC.
411 South Wells Street Suite 1000
Chicago, Illinois 60607

PROFESSIONAL LICENSURE

MOHAMMED K. RASHED
062-053645
LICENSED
PROFESSIONAL
ENGINEER
OF
ILLINOIS

EXPIRATION DATE: 11-30-2019

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

INDEX OF SHEETS

SHEET NO:	SHEET TITLE
1	COVERSHEET
2	CODE MATRIX
3	POLE ELEVATIONS - SIDE VIEW
4	POLE ELEVATIONS - FRONT VIEW
5	EQUIPMENT DETAILS & LOADING REPORT
6	ELECTRICAL DETAILS
7	GROUNDING DETAILS
8	GENERAL NOTES
9	GENERAL NOTES
10	GENERAL NOTES
11	SITE PLAN
12	RESTORATION PLAN
13	PROFILES
14	CDOT STANDARDS
15	CDOT STANDARDS
16	TRAFFIC CONTROL
17	TRAFFIC CONTROL
18	TRAFFIC CONTROL

FILE NO. 2016-73144

PROJECT INFORMATION

ADDRESS/CROSS ST:	316-400 E. ONTARIO ST., CHICAGO, IL 60611
COUNTY:	COOK COUNTY
UTILITIES:	POWER "COMED" TELEPHONE "AT&T" CABLE "COMCAST / RCN"
PROPERTY OWNER:	PUBLIC RIGHT-OF-WAY
APPLICANT:	mobilitie, LLC

BEFORE YOU DIG IN CHICAGO CALL

811 Chicago

VICINITY MAP

REVISIONS

BY	DESCRIPTION	DATE

PERMITTING

JURISDICTION : CDOT

PROJECT SUMMARY

END USER PROPOSES TO INSTALL EQUIPMENT ON EXISTING ALUMINUM LIGHT POLE WITHIN AN EXISTING RIGHT-OF-WAY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- INSTALL PROPOSED SMALL CELL EQUIPMENT

PROJECT CONTACTS

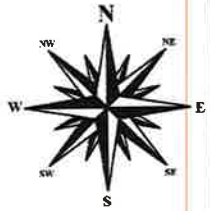
MOBILITIE:
PROJECT MANAGER CONTACT: ROBERT WILSON
120 S. RIVERSIDE PLAZA,
CHICAGO, IL 60606
PHONE: 312-343-4882

EJM ENGINEERING, INC.:
ENGINEER CONTACT:
411 S. WELLS ST.,
SUITE 1000
CHICAGO, IL 60607
PHONE: 312-922-1700

COORDINATES

LATITUDE:
41° 53' 36.57"N (41.893492)

LONGITUDE:
87° 37' 09.69"W (-87.619359)



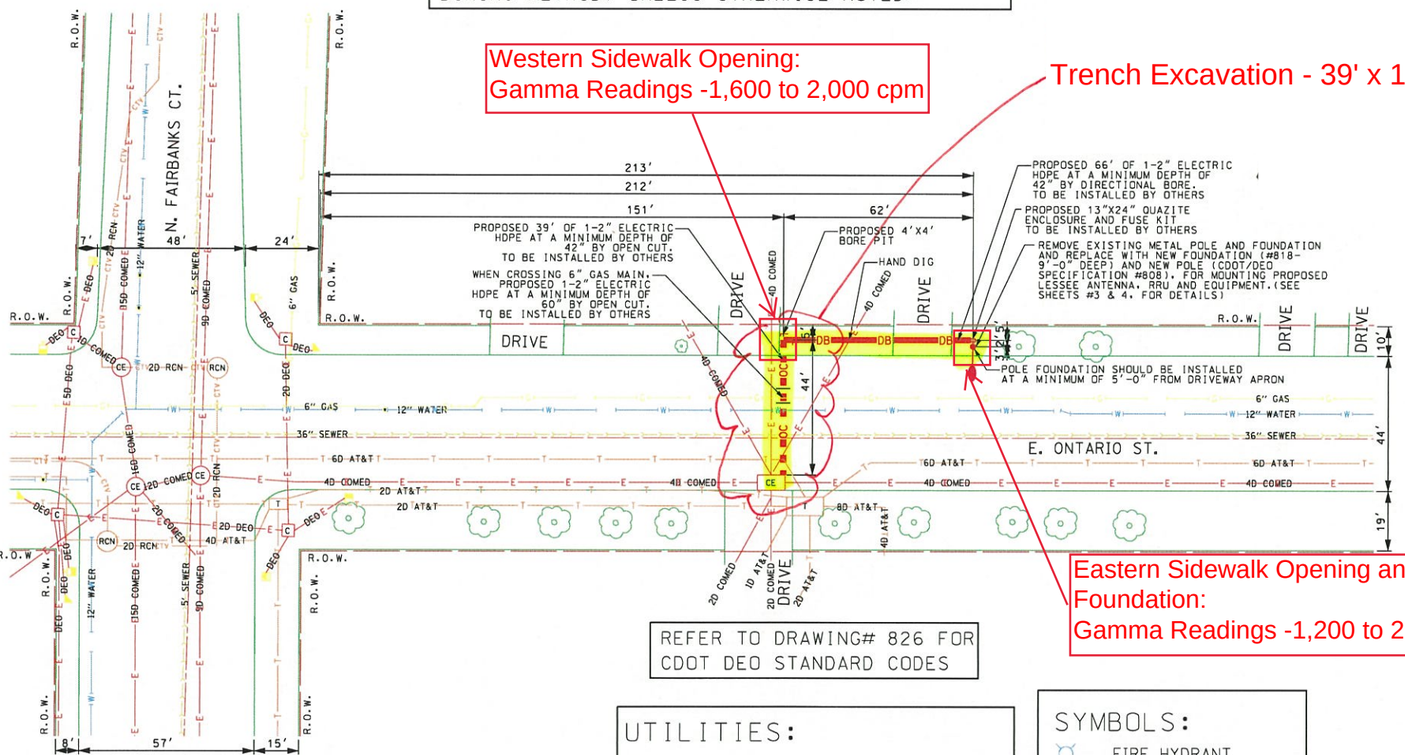
PROJECT INFORMATION

DRAWN BY:	MRT
CHECKED BY:	MKR
DATE:	04-25-2017
PROJECT #:	CH90XSHA5A (DUC BR# 2016-73144), (DUC EFP# 2018-82081)
TITLE:	COVERSHEET
SCALE:	
PAGE:	1
OF:	18

ANNOTATED DRAWING

CONTRACTOR TO CONTACT D.I.G.G.E.R @ 312-744-7000
ALL UTILITY COMPANIES TO LOCATE EXISTING UNDERGROUND UTILITY LINES PRIOR TO COMMENCEMENT OF WORK.

CONDUIT TO BE INSTALLED USING DIRECTIONAL BORING METHOD, UNLESS OTHERWISE NOTED.



REFER TO DRAWING# 826 FOR CDOT DEO STANDARD CODES

LEGEND:

- DB — PROPOSED CITY ELECTRIC (BY DIRECTIONAL BORING)
- OC — PROPOSED CITY ELECTRIC (IN OPEN CUT TRENCH)
- PROPOSED POLE AND FOUNDATION
- PROPOSED QUAZITE ENCLOSURE
- PROPOSED 4'X4' BORE PIT

UTILITIES:

- CITY ELECTRIC
- WATER
- GAS
- COMED
- TELEPHONE
- CABLE TV
- SEWER
- FIBER OPTIC
- R.O.W.

SYMBOLS:

- FIRE HYDRANT
- WATER VALVE
- GAS VALVE
- ELECTRICAL MANHOLE
- POWER POLE
- TELEPHONE MANHOLE
- SEWER MANHOLE
- BOLLARD
- TREE

0 20 40 60
SCALE IN FEET

mobilitie
intelligent infrastructure

EJM ENGINEERING, INC.
411 South Wells Street Suite 1000
Chicago, Illinois 60607

PROFESSIONAL LICENSURE

MOHAMMED K. RASHED
062-053645
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

EXPIRATION DATE: 11-30-2017

REVISIONS

BY	DESCRIPTION	DATE

PROJECT INFORMATION

DRAWN BY:	MRT
CHECKED BY:	MKR
DATE:	04-25-2017
PROJECT #:	CH90XSHA5A (OUC IR# 2016-73144), (OUC EFP# 2017-75924)
TITLE:	SITE PLAN
SCALE:	1" = 20'
PAGE:	11
OF:	17

PHOTOGRAPHS

Looking west from the eastern sidewalk excavation at the western sidewalk excavation location and completed trench excavation.

Eastern excavation in northern sidewalk on E. Ontario Street prior to removal of the existing foundation.

Eastern sidewalk excavation on northern sidewalk of E. Ontario Street after removal of the original foundation with excavation for new utility pole foundation complete.