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

312-939-1000 tel
312-939-4198 fax

May 11, 2018

Mr. Chris Seibel
John Burns Construction Company
17601 Southwest Highway,
Orland Park, IL 60467

RE: Radiological Survey of Right-of-Way Utility Excavation
Permit No.: DOT904308
Permit Address: 494 E Grand Avenue, Chicago, Illinois
AECOM Project No. 60537484

Dear Mr. Seibel:

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 April 4-6th, & 9th, 2018 for a trench excavation and conduit installation.

Surveying was performed on the fill soil removed at 494 E. Grand Avenue required to place the 2 inch PVC conduit. The work consisted of one continuous trench excavation, approximately 250 feet long and 3 feet wide. The trench was excavated to approximately 48 inches below ground surface (bgs). See attached sketch for the layout of the excavation area.

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 instrument background measured in the vicinity of the excavations was 1,700 cpm shielded. Gamma radiation count measurements for the project were recorded using Ludlum Models 2221 survey meter and a shielded 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 7,374 (S/N: 172039) counts per minute (cpm) shielded.

The field gamma measurements within the excavation during the excavation process did not exceed the instrument threshold previously stated, and ranged from a minimum of 1,100 cpm to a maximum of 4,000 cpm shielded. The general subsurface stratigraphy beneath the concrete and asphalt pavement was composed of urban fill. 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 and a field sketch documenting the area 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,

Lauren H. Cannon, EIT
Environmental Engineer

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

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

Attachments: Permit
Sketch

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): Chris Seibel Signature: Chris Seibel

Site Address and Work Location (Describe exact site location and **attach map**): 494 E GRAND AVE, CHICAGO, IL - ON GRAND FROM PESHTIGO CT TO N LAKESHORE DR

Nature of Work: EXCAVATING TRENCH FOR CONDUIT INSTALL

Company Name, Address, Phone No.: JOHN BURNS CONSTRUCTION, 17601 SW HIGHWAY, ORLAND PARK, IL - 708-326-3500

General / Prime Contractor Name, Address, Phone No.: JOHN BURNS CONSTRUCTION, 17601 SW HIGHWAY, ORLAND PARK, IL - 708-326-3500
Include subcontractor information if applicable)

Safety Officer / Phone No. STEVE BRAZEL - 708-670-7380

Radiation Contractor / Phone No. and email address (if applicable) AECOM CONSULTANTS - 303 E WACKER DR, SUITE 1400 CHICAGO, IL - 312-373-7700

Check if City Department Work ☐ Department Name: _____

CDOT Permit No.: DOT904308

Today's Date: 3/5/18 Expected Start Date: 3/26/18 CDPH Approval / Date J Sheahan 3-8-18

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

ISSUED FOR CONSTRUCTION

AT&T

OUTSIDE PLANT FIBER OPTIC BUILD

AT&T DEARBORN NODE #16

494 E GRAND AVE
CHICAGO, IL 60611

SEC 10, T39N-R14E,
CHICAGO, COOK COUNTY, ILLINOIS

CONTACT INFORMATION:

ENGINEER:

CCSI

2649 GARDNER RD
BROADVIEW, IL 60155
OFFICE 630.572.9999 • FAX 630.572.9998

OWNER:

AT&T

TOM THEODORE
PROFESSIONAL- TECH PROJECT MGMT.
930 NATIONAL PKWY.
SCHAUMBURG, IL 60173
OFFICE 847.592.3000- MOBILE 847.284.5835
EMAIL TT839N@ATT.COM

DEVELOPER:

MasTec Network Solutions

1351 E. IRVING PARK RD.
ITASCA, IL 60143
OFFICE 847.463.5950 • FAX 630.250.1353

CONTRACTOR:

TBD

BENCHMARK INFORMATION:

BENCHMARK: #9
ELEVATION: 12.892
LOCATION DESCRIPTION:
4 FEET E. OF E. LINE OF MICHIGAN TO W. 19 FEET S. OF THE N. LINE OF E. CHICAGO AVENUE.
MARK DESCRIPTION: BENCH SETTLED ABOUT 0.046 FEET BETWEEN 1920 AND 1931, ELEVATION PREVIOUS TO 1966 WAS 12.906 TOWER COURT WAS CHANGE TO N. MICHIGAN (TO THE WEST)
YEAR BENCHMARK ELEVATION FIXED: 1966
BOOK NUMBER: 482
LATITUDE: 41.896822
LONGITUDE: -87.624019

LOCATION MAP
SCALE: NOT TO SCALE

N

PROJECT NUMBERS:

OUC NO: 2017-78533
PROJECT NO: 1783-003-U16
DEO WORK NO: 11717008

PROJECT DESCRIPTION:

INSTALLATION OF (2)-2.00" SCHEDULE 40 PVC CONDUIT @ 48" MINIMUM DEPTH BY OPEN CUT/TRENCH TO THE ABOVE MENTIONED ADDRESS;

CONSTRUCTION FOR POWER STARTS AT EXISTING COMED MANHOLE #368058 AT THE INTERSECTION OF GRAND & PESHTIGO. CONTINUE NORTH APPROX. 2', CONTINUE EAST APPROX. 71' TO JOINT TRENCH WITH FIBER DESIGN. CONSTRUCTION FOR FIBER START AT EXISTING AT&T MH #17102 EAST OF THE INTERSECTION OF GRAND & PESHTIGO, CONTINUE SOUTH APPROX. 9' TO TRENCH WITH POWER BUILD. CONTINUE EAST APPROX. 88' TO PROPOSED MANHOLE. CONTINUE NORTH APPROX. 44', CONTINUE NORTHEAST APPROX. 40' TO NODE SITE.

DRAWING INDEX

SHEET	TITLE
1	COVER
2	LEGEND
3	NOTES AND ABBREVIATIONS
4	DETAIL
5	TYPICALS
6	BILL OF MATERIALS/ POLE (NODE) INFORMATION
7	TRAFFIC PLAN(S)
8	RESTORATION PLAN(S)
9	OSP PLAN(S)/PROFILE

CALL CHICAGO DIGGERS HOTLINE
1-312-744-7000

REQUIRES 48 HRS.
NOTICE BEFORE YOU EXCAVATE

12/12/17
ANTHONY C. ANTONIO
062.059059
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
Exp 11/30/19

ENGINEER'S CERTIFICATION:
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE CONFORM TO ALL LOCAL CODES AND ORDINANCES. ANY REPRODUCTIONS, CHANGES OR ALTERNATIVES WITH OUT MY WRITTEN CONSENT ARE PROHIBITED.

ANTHONY C. ANTONIO
PROFESSIONAL ENGINEER
P.E. NO. 062.059059 EXP. 11/30/19

DRAWING SCALE: AS NOTED

ENGINEER:
CCSI
2649 GARDNER RD
BROADVIEW, IL 60155
OFFICE 630.572.9999
FAX 630.572.9998

OWNER:
AT&T
930 NATIONAL PKWY.
SCHAUMBURG, IL 60173
OFFICE 847.592.3000

DEVELOPER:
MasTec Network Solutions
1351 E. IRVING PARK RD.
ITASCA, IL 60143
OFFICE 847.463.5950
FAX 630.250.1353

TITLE:
OUTSIDE PLANT FIBER OPTIC BUILD

AT&T DEARBORN (NODE #16)

494 E GRAND AVE.
CHICAGO, IL 60611

OUC NUMBER: 2017-78533
PROJECT NUMBER: DASC-1783-003-U16
DRAWN BY: AP
DATE DRAWN: 08/07/17

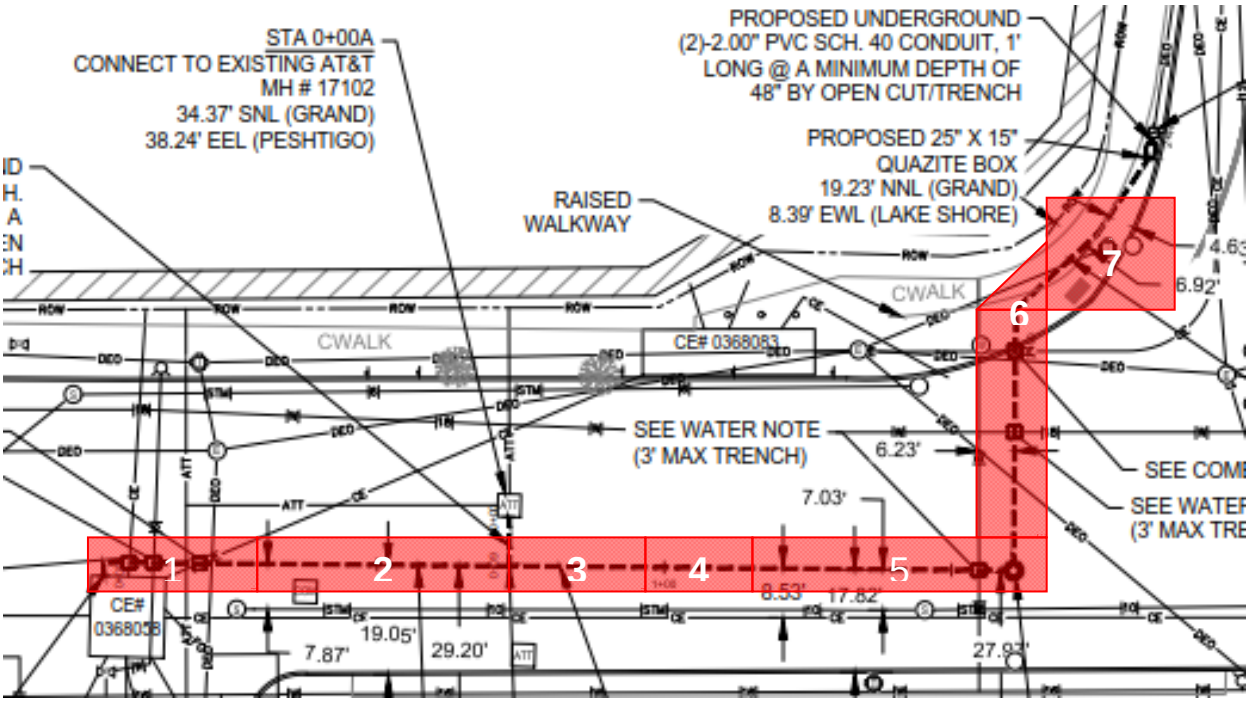
NO.	DATE	DESCRIPTION
	12/12/17	FOR CONSTRUCTION
3	11/08/17	AT&T REVISION
2	10/02/17	MOBILITIE REVISION
1	08/14/17	WATER RESTORATION
	08/07/17	PERMIT

REVISIONS

SHEET NUMBER
1

SKETCH

Permit No.: DOT904308
Permit Address: 494 E Grand Avenue, Chicago, Illinois



Area	Depth	CPM (shielded)
1	0”	Pavement
1	18”	2,400-4,400
2	0”	Pavement
2	18”	3,300-4,000
2	18-40”	2,200-3,800
2	40+”	2,800-3,300
3	0”	Pavement
3	16”	2,700-4,000
3	16-40” (Spoil)	1,800-2,800
3	40+”	2,800-3,900
4	0”	Pavement
4	16”	3,100-4,700
4	16-40” (Spoil)	2,100-2,900
4	40+”	2,700-3,400
5	0”	Pavement
5	16”	2,700-4,400
6	0”	Pavement
6	18”	2,200-2,400
6	18-40”	1,600-2,200
6	40+”	2,200-2,800
7	0”	Pavement
7	8”	1,600-1,800
7	40”	4,200-4,700
Ludlum Shielded Cutoff = 7,374 cpm.		