



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

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

962381

November 24, 2020

Mr. Chris Hanlon  
Meade Electric Company  
9550 W. 55<sup>th</sup> St., Suite A  
Countryside, IL 60525

RE: Streeterville Thorium Monitoring Results  
Permit No.: DOT1298984  
Permit Address: 55 W. Illinois St., Chicago, IL  
AECOM Project No. 60586768.700

Dear Mr. Hanlon:

Pursuant to conditions specified in the Right of Way (ROW) form (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 the required radiation surveillance from October 28, 2020 to November 5, 2020 for trench excavations required to install communications conduit on public ROW near the intersections of N. Dearborn and W. Hubbard Streets, and N. Dearborn and W. Illinois Streets in Chicago, IL (refer to map included with CDPH form).

Surveying was performed in a 36-inch wide, approximately 300-foot long trench excavated near 55 W. Illinois St. The excavation was excavated to a depth of 34 to 36-inches. The excavation was in the N. Dearborn St. ROW adjacent to the east curbing of N. Dearborn St. and across N. Dearborn St. The excavation began at the northeast corner of N. Dearborn and W. Hubbard Streets. From there, the excavation continued north along N. Dearborn and turned west across N. Dearborn at the south side of W. Illinois St. Refer to the drawing attached to the CDPH form for the approximate location of the excavation.

The monitoring did not indicate that the exported 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 a Ludlum Model 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 7,020 (S/N: 326720) counts per minute (cpm) shielded utilizing a short cord.

Field gamma measurements within the excavation did not exceed the instrument threshold previously stated, with a maximum gamma count of 4,250 cpm shielded. The location numbers in the attached results table correspond to the location (shown in red) on the annotated drawing. The field background radiation level of nearby soils was measured at approximately 2,900 cpm shielded. A copy of the CDPH form, photographs, annotated drawing and the tabulated gamma results are included as attachments.

As part of the permit conditions, a PDF copy of this letter will be forwarded to Terry Sheahan (CDPH) and Verneta Simon (USEPA) to fulfill the requirements of the CDPH.

Please contact us with any questions you have regarding this letter or the reported results.

Regards,



Eric Sulita, P.E.  
Environmental Engineer III



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

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

Attachments: CDPH Permit Form and Map  
Photographs and Gamma Results

**CDPH PERMIT FORM**



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.

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).

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.

Applicant Name (print): Kelli Woodhouse Signature: Kelli Woodhouse

Site Address and Work Location (Describe exact site location and attach map): 55 W Illinois St

400-501 N Dearborn St, 27-72 W Illinois St

Nature of Work: Installation of conduit 1 light pole/foundation, 1 quazite box via open cut trench.

Company Name, Address, Phone No.: Meade Electric CO. 9550 W 55th St Ste A, Countryside IL, 60525-3641 (708) 588-2500

General / Prime Contractor Name, Address, Phone No.: Chris Hanlon (773) 447-6627

Include subcontractor information if applicable)

Safety Officer / Phone No.

Radiation Contractor / Phone No. and email address (if applicable) Steve Kornder (262)515-7700 steve.kornder@aecom.com

Check if City Department Work [ ] Department Name:

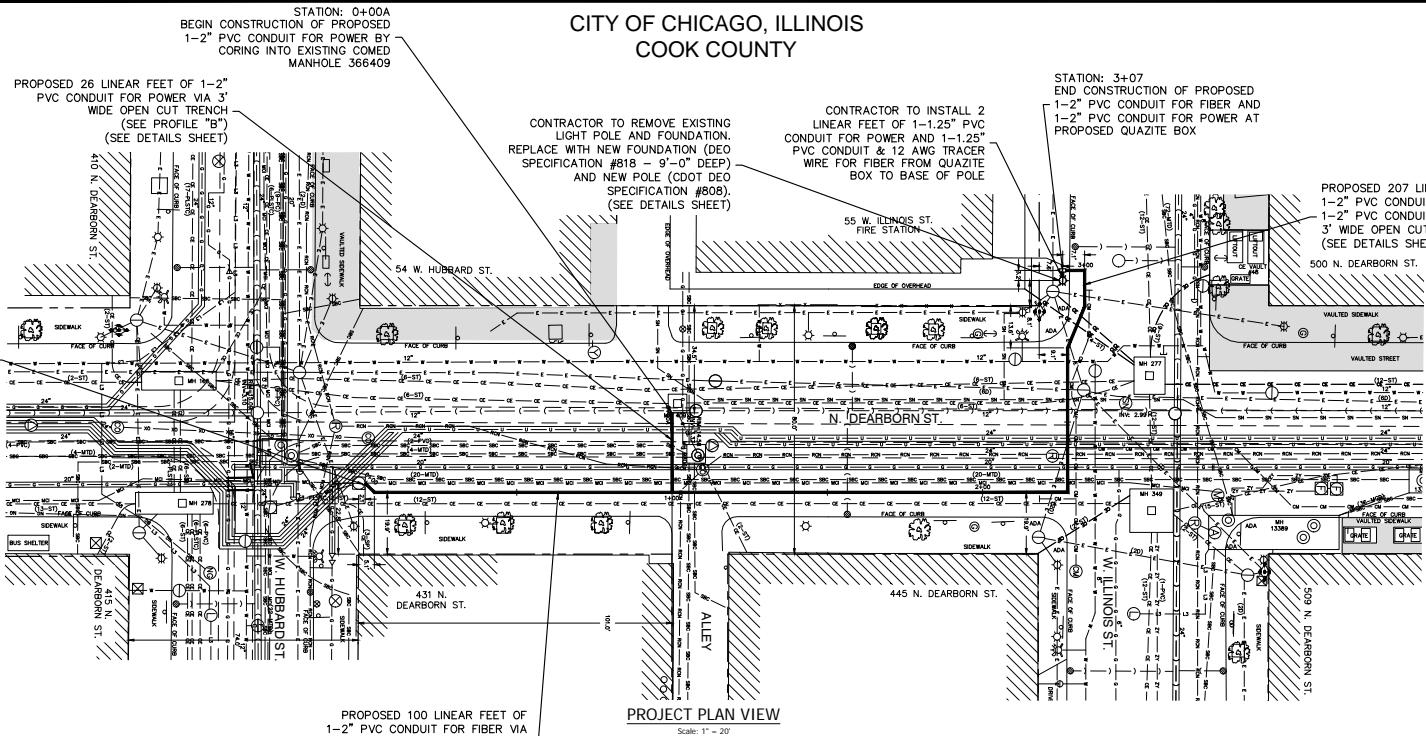
CDOT Permit No.: DOT1298984

Today's Date: 10/9/20 Expected Start Date: 10/22/20 CDPH Approval / Date

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

CITY OF CHICAGO, ILLINOIS  
COOK COUNTY



STATION: 0+00A  
BEGIN CONSTRUCTION OF PROPOSED 1-2" PVC CONDUIT FOR POWER BY CORING INTO EXISTING COMED MANHOLE 366409

PROPOSED 26 LINEAR FEET OF 1-2" PVC CONDUIT FOR POWER VIA 3' WIDE OPEN CUT TRENCH (SEE PROFILE "B") (SEE DETAILS SHEET)

CONTRACTOR TO REMOVE EXISTING LIGHT POLE AND FOUNDATION. REPLACE WITH NEW FOUNDATION (DEO SPECIFICATION #818 - 9'-0" DEEP) AND NEW POLE (CDOT DEO SPECIFICATION #808). (SEE DETAILS SHEET)

CONTRACTOR TO INSTALL 2 LINEAR FEET OF 1-1.25" PVC CONDUIT FOR POWER AND 1-1.25" PVC CONDUIT & 12 AWG TRACER WIRE FOR FIBER FROM QUAZITE BOX TO BASE OF POLE

STATION: 3+07  
END CONSTRUCTION OF PROPOSED 1-2" PVC CONDUIT FOR FIBER AND 1-2" PVC CONDUIT FOR POWER AT PROPOSED QUAZITE BOX

PROPOSED 207 LINEAR FEET OF 1-2" PVC CONDUIT FOR FIBER AND 1-2" PVC CONDUIT FOR POWER VIA 3' WIDE OPEN CUT TRENCH (SEE DETAILS SHEET)

STATION: 0+00  
BEGIN CONSTRUCTION OF PROPOSED 1-2" PVC CONDUIT FOR FIBER BY CORING INTO EXISTING MCI MANHOLE.

PROPOSED 100 LINEAR FEET OF 1-2" PVC CONDUIT FOR FIBER VIA 3' WIDE OPEN CUT TRENCH (SEE DETAILS SHEET)

PROJECT PLAN VIEW  
Scale: 1" = 20'

HAND DIG IS REQUIRED WHEN CROSSING COMED UNDERGROUND CABLE/CONDUITS. MAINTAIN 12 INCHES VERTICAL CLEARANCE (18 INCHES IF POSSIBLE) FROM ANY COMED FACILITIES. WHEN FIELD CONDITIONS REQUIRE COMED ASSISTANCE, PLEASE CONTACT COMED NEW BUSINESS 1-866-NEW-ELEC TO REACH OUT TO A PROJECT ENGINEER AT LEAST 4 WEEKS PRIOR TO CONSTRUCTION.

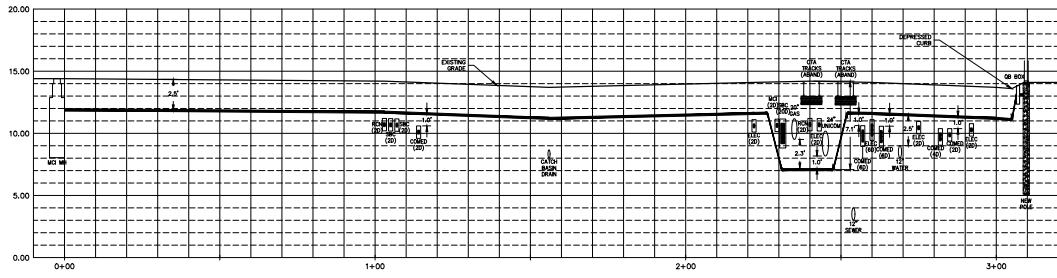
CONTRACTOR TO COORDINATE WITH CDOT-DEO PRIOR TO CONSTRUCTION, REGARDING THE PROPOSED REPLACEMENT OF EXISTING LIGHT POLE AND FOUNDATION.

IF STREET CAR TRACKS EXIST, CONTRACTOR WILL BE REQUIRED TO REMOVE ABANDONED STREET CAR TRACKS DURING CONDUIT INSTALLATION.

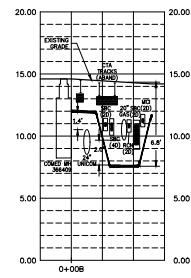
NOTE: USE EXTREME CAUTION WHEN DIGGING NEAR EXISTING UTILITIES.

USE EXTREME CAUTION NEAR ALL GAS FACILITIES DURING CONSTRUCTION AND RELATED EXCAVATION ACTIVITIES. HAND DIG OR NON-INVASIVE EXCAVATION IS REQUIRED TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF GAS FACILITIES PRIOR TO CROSSING AND WORKING WITHIN 3 FEET OF ALL GAS FACILITIES. A MINIMUM OF 3' HORIZONTAL EDGE TO EDGE CLEARANCE IS REQUIRED FOR GAS FACILITIES WITH DIAMETERS OF 16" OR SMALLER, AND 5FT EDGE TO EDGE CLEARANCE FOR GAS FACILITIES WITH DIAMETERS 18" AND LARGER. MAINTAIN A MINIMUM OF 18" EDGE TO EDGE VERTICAL CLEARANCE WHEN CROSSING GAS FACILITIES 16" OR LESS IN DIAMETER, AND 24" EDGE TO EDGE VERTICAL CLEARANCE WHEN CROSSING 18" AND LARGER DIAMETER FACILITIES. CONTACT 811 CHICAGO/DIGGER 312-744-7000 FOR LOCATES 48 HOURS PRIOR TO START OF CONSTRUCTION AND SPECIFY EXCAVATION TYPE.

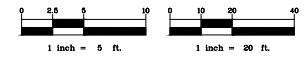
THE USE OF CONCRETE, FLOW FILL, OR THE LIKE IS PROHIBITED WITHIN 24 INCHES OF ALL GAS FACILITIES, NOR SHALL IT ENCASE ANY GAS FACILITY. A BUFFER OF 24" SAND IS TO BE USED BETWEEN FLOW FILL AND ALL GAS FACILITIES. A MINIMUM OF 6" FA-02 OR FM-02 SAND SHALL BE USED WHEN BACKFILLING OTHER MATERIALS AROUND ANY EXPOSED GAS FACILITY. CONTRACTOR EXPOSING GAS FACILITY IS RESPONSIBLE FOR PROVIDING THE SAND. ANY DAMAGES TO PEOPLES GAS FACILITIES SHALL BE THE RESPONSIBILITY OF THE INSTALLING UTILITY AND THEIR CONTRACTOR(S). CALL 866-556-6002 IMMEDIATELY FOR ANY DAMAGES TO THE GAS FACILITIES. ALL GAS FACILITIES ARE TO BE MAINTAINED.



PROFILE VIEW  
Horizontal Scale: 1" = 20'  
Vertical Scale: 1" = 5'



PROFILE "B" VIEW  
Horizontal Scale: 1" = 20'  
Vertical Scale: 1" = 5'



NODE ID:	534592
55 W. ILLINOIS ST. CHICAGO, ILLINOIS	
EFP-XXXXXX	

CLARIFICATION NO.	QUANTITY

**MCI**  
McMetro SERVICES LLC  
ACCESS TRANSMISSION SERVICES LLC  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC CABLE ROUTE

DRIVER: **hbk**  
HBM ENGINEERING, LLC  
501 W. ILLINOIS ST., SUITE 210  
CHICAGO, IL 60654  
TEL: 312.263.4455  
WWW.HBMENGINEERING.COM

DATE: 3-20-2020

ENGINEER: MAB  
DRAWN BY: JNW, DWT

REVISIONS		
DATE	DESCRIPTION	INITIAL
3-20-20	FOR OUC REVIEW	DWT

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATIONS SERVICES, INC. BOTH BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=20'  
VERTICAL: 1"=5'

MP TO MP  
SHEET 4 OF 8

FILE: 18-0886\_VZ-ST-1906

## PHOTOGRAPHS AND GAMMA RESULTS

**PICTURE 1: VIEW OF THE EXCAVATION AT 440 N. DEARBORN, LOOKING NORTH TOWARDS ILLINOIS ST.**

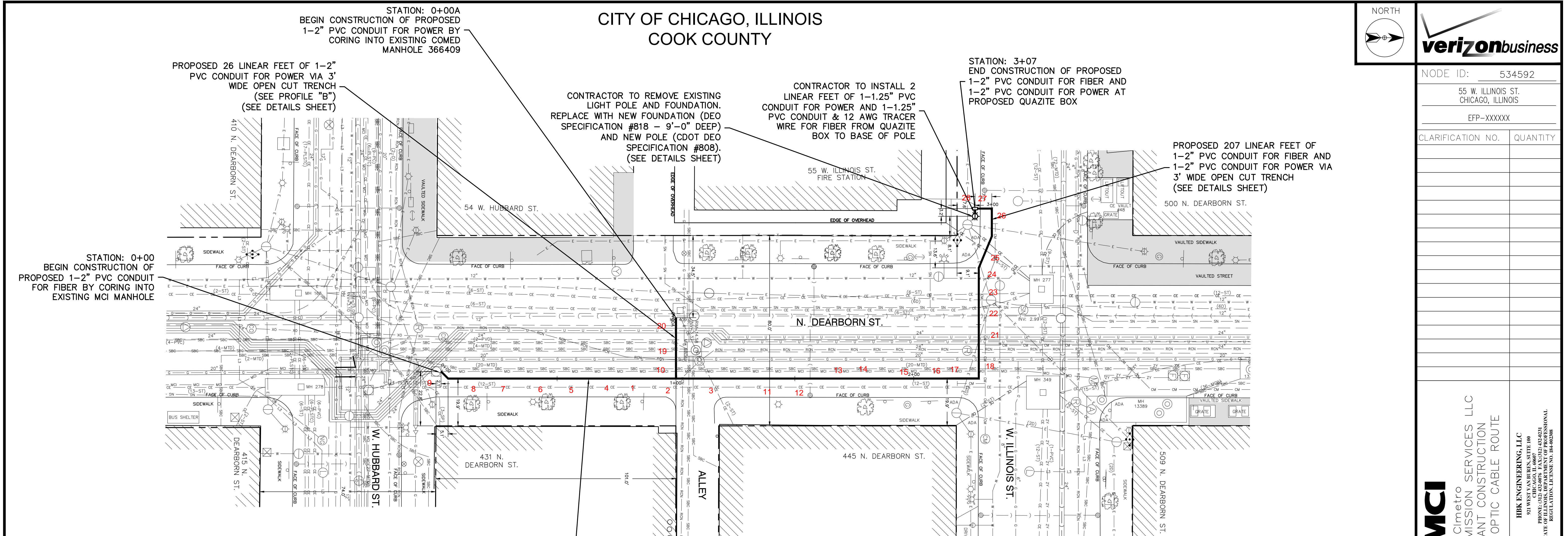
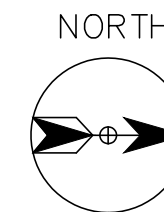


**PICTURE 2: VIEW OF THE EXCAVATION AT 40 W. ILLINOIS ST, LOOKING EAST TOWARDS DEARBORN ST.**





**CITY OF CHICAGO, ILLINOIS  
COOK COUNTY**



STATION: 0+00  
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**PROJECT PLAN VIEW**  
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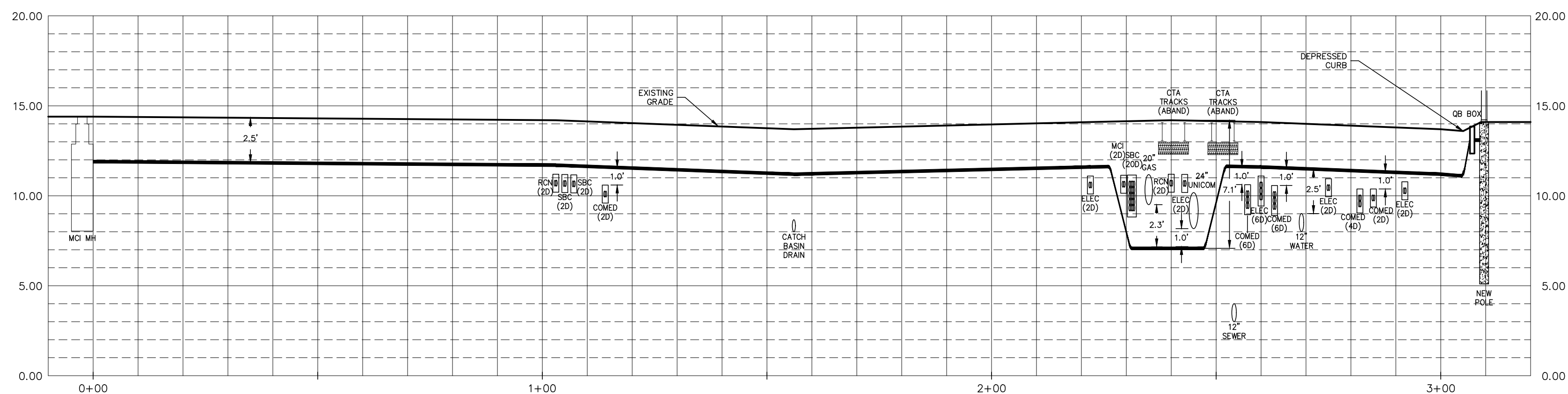
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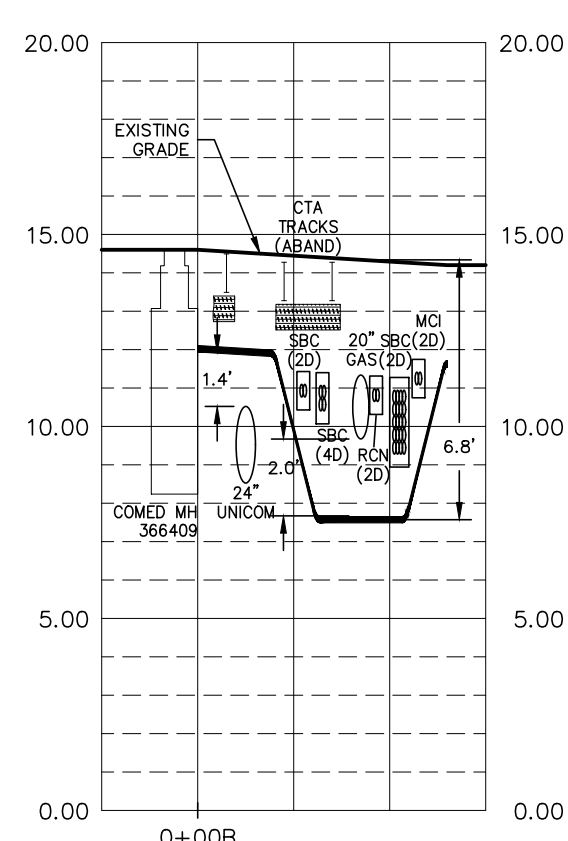
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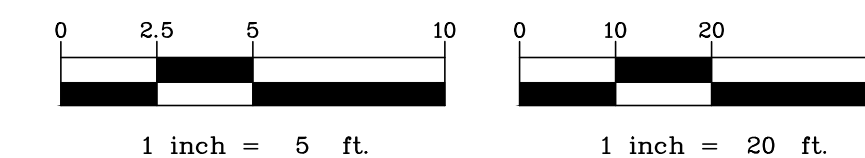
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**PROFILE VIEW**  
Horizontal Scale: 1" = 20'  
Vertical Scale: 1" = 5'



**PROFILE "B" VIEW**  
Horizontal Scale: 1" = 20'  
Vertical Scale: 1" = 5'



NODE ID: 534592  
55 W. ILLINOIS ST.  
CHICAGO, ILLINOIS  
EFP-XXXXX

CLARIFICATION NO.	QUANTITY

OWNER:  
**MCI**  
MCI Metro  
ACCESS TRANSMISSION SERVICES LLC  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC CABLE ROUTE

ENGINEER:  
**hbk**  
ENGINEERING, LLC  
921 WEST VAN BUREN, SUITE 100  
CHICAGO, IL 60607  
PHONE: (312) 462-9009 FAX: (312) 462-0431  
STATE OF ILLINOIS, DEPARTMENT OF PROFESSIONAL REGULATION, LIC. ENG. NO. 048-026068

DATE: 3-20-2020  
ENGINEER: MAB  
DRAWN BY: JNW, DWT  
REVISIONS

DATE	DESCRIPTION	INITIAL
3-20-20	FOR OUC REVIEW	DWT

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**SCALE**  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 5'

MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 4 OF 8  
FILE: 18-0886, VZ-ST-1906

**Gamma Survey Results  
Meade**

**Survey Equipment**

Location:	55 W. Illinois St.
CDPH:	1298984
Ludlum 2221 S/N:	326720
Cutoff (short cord):	7,020 cpm
Background:	2,900 cpm
Personnel:	E. Sulita
Date of Screening:	10/28, 10/29, 10/30, 11/3, 11/4, 11/5/2020

**Survey Results**

Location (55 W. Illinois St.) See Map	Depth (inches)	Maximum Readings (cpm)
1	0-16	concrete
	16	2,900
	28	2,860
	36	2,350
2	0-16	concrete
	16	2,600
	28	2,750
	36	2,800
3	0-16	concrete
	16	2,300
	28	2,250
	36	2,480
4	0-16	concrete
	16	3,650
	28	2,720
	36	2,900
5	0-16	concrete
	16	3,300
	28	2,550
	36	4,250
6	0-16	concrete
	16	3,300
	28	2,550
	36	4,250

Location (55 W. Illinois St.) See Map	Depth (inches)	Maximum Readings (cpm)
14	0-14	concrete
	14	2,380
	24	1,980
	34	2,160
15	0-14	concrete
	14	2,960
	24	3,005
	34	2,780
16	0-14	concrete
	14	2,830
	24	2,910
	34	2,860
17	0-14	concrete
	14	2,700
	24	1,960
	34	2,150
18	0-14	concrete
	14	2,630
	24	2,610
	34	1,935
19	0-18	concrete
	18	2,090
	24	1,190
	34	1,790
20	0-18	concrete
	18	2,105
	24	1,960
	34	1,670

7	0-16	concrete
	16	3,020
	28	2,730
	36	2,960
8	0-16	concrete
	16	3,850
	28	2,960
	36	3,170
9	0-16	concrete
	16	2,950
	28	2,960
	36	2,150
10	0-16	concrete
	16	2,960
	28	2,130
	36	2,365
11	0-16	concrete
	16	2,150
	28	2,980
	36	3,100
12	0-16	concrete
	16	3,250
	28	2,870
	36	2,930
13	0-14	concrete
	14	2,160
	24	2,060
	34	2,010

21	0-18	concrete
	18	2,050
	28	1,890
	34	1,870
22	0-18	concrete
	18	2,050
	28	1,920
	34	1,920
23	0-18	concrete
	18	2,300
	28	1,970
	34	2,050
24	0-18	concrete
	18	2,150
	28	1,670
	34	2,120
25	0-18	concrete
	18	2,339
	32	2,200
26	0-18	concrete
	18	2,150
	28	1,670
	32	2,120
27	0-18	concrete
	18	2,070
	32	2,300
28	0-6	concrete
	6-18	2,000
	32	1,850