



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

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

June 8, 2017

Mr. Christopher J. Seibel  
John Burns Construction Company  
17601 SW Highway, Orland Park, IL 60467

RE: Radiological Survey of Right-of-Way Utility Excavation  
Permit No.: DOT799406  
Permit Address: 440 E. Ohio St., Chicago, IL  
AECOM Project No. 60537484

Dear Mr. Seibel:

Pursuant to conditions specified in the 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 monitoring on May 26, 30, and 31, 2017, to screen the exposed fill during cellular light pole base replacement and associated utility trench excavations.

Gamma radiation surveying was conducted at the above referenced address during the concrete/asphalt removal and trench excavation in the sidewalk and roadway Right-of-Way (ROW). The excavation consisted of removal of existing light pole base, concrete sidewalk, curb, and roadway as well as disturbance of the fill material during these activities. The work area is located along the north side of E. Ohio St., east of the intersection of E. Ohio St. and N. McClurg Ct. (refer to sketch). The trench excavation was approximately 100-feet long, 2-feet wide, and disturbed fill to depths between 3 to 8.5-feet below ground surface (bgs).

The U.S. Environmental Protection Agency (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 a Ludlum Model 2221 survey meter and an unshielded 2 x 2 inch sodium iodide (NaI) probe Model 44-10. For the instruments used, the gamma count indicative of the USEPA removal action level of 7.1 pCi/g were 17,270 counts per minute (cpm) unshielded and 6,175 cpm shielded.

The field instrument gamma background for the area was 6,900 to 7,500 cpm unshielded. Although none were observed for this project, field gamma measurements greater than twice the field background represent potential anomalous results that require more cautious and frequent field screening, but are not necessarily indications of the presence of thorium contaminated fill soil.

The field gamma measurements within the excavation and of the spoil materials generated during the excavation process did not exceed the field instrument threshold equivalent to the USEPA removal action level and ranged from a minimum of 1,200 cpm to a maximum of 4,500 cpm shielded and from 7,400 to 9,800 cpm unshielded. Thus, there was no indication of the presence of radiologically-contaminated fill soil and/or an exceedance of the USEPA removal action level of 7.1 pCi/g total radium.

To fulfill the requirement of the CPDH permit this letter has been forwarded via email to:

Chicago Department of Public Health  
Attn: Mr. Terry Sheahan  
333 South State Street, Rm. 200  
Chicago, Illinois 60604

Permit No.: DOT799406  
Permit Address: 440 E. Ohio St.  
Page 2

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: Verneta Simon, USEPA  
Robert Wilson, Mobilitie

Attachments: CDPH 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): Robert J. Wilson Signature: [Handwritten Signature]

Site Address and Work Location (Describe exact site location and attach map):  
440 E. Ohio (see attached construction drawings)

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

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

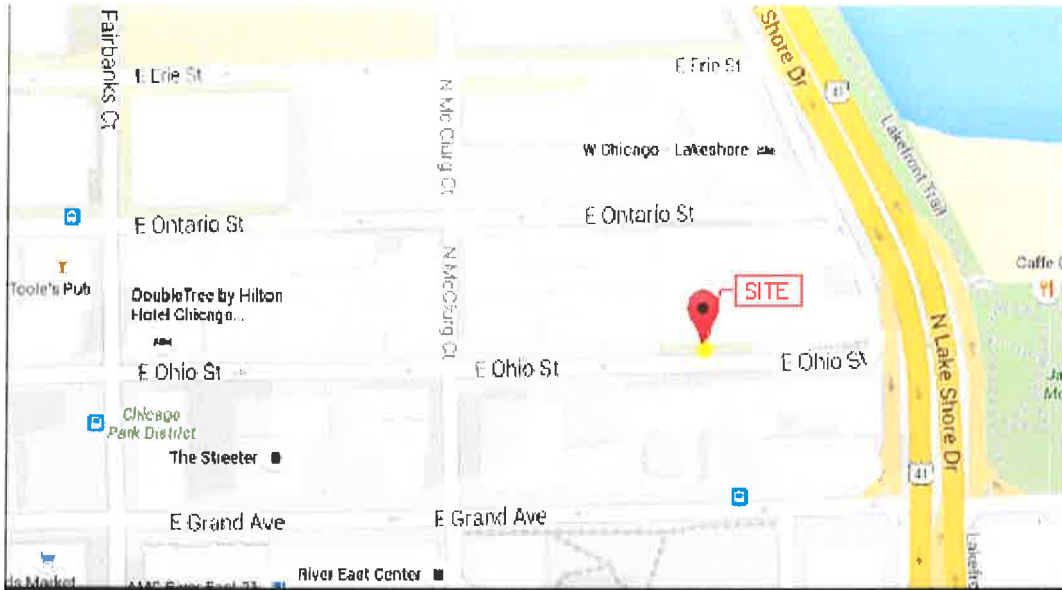
Check if City Department Work  Department Name: \_\_\_\_\_

CDOT Permit No.: DOT 799406

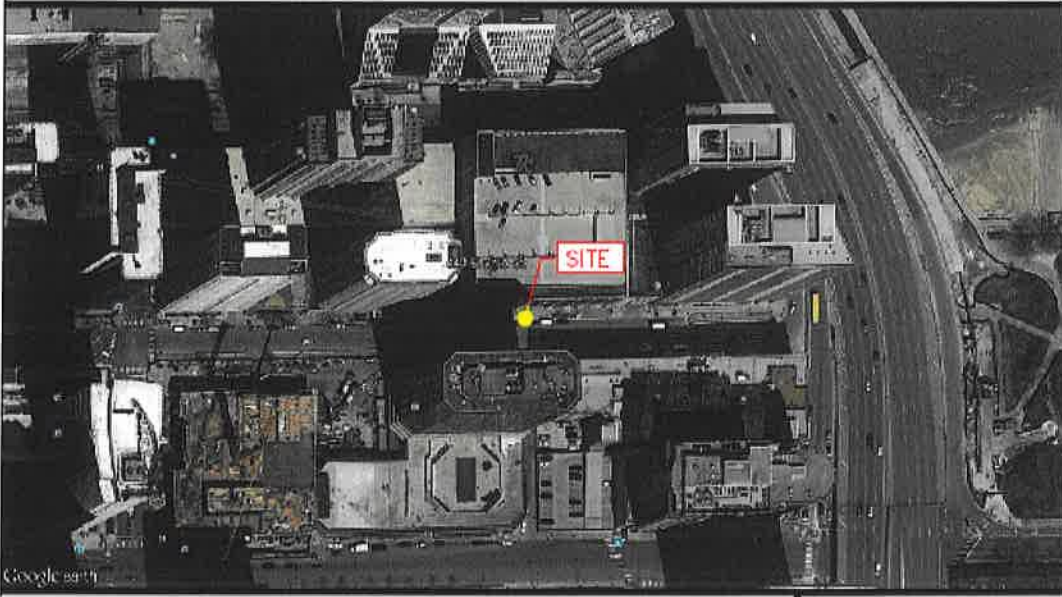
Today's Date: 5/10/2017 Expected Start Date: 5/15/2017 CDPH Approval / Date: [Handwritten Signature] 5.11.17

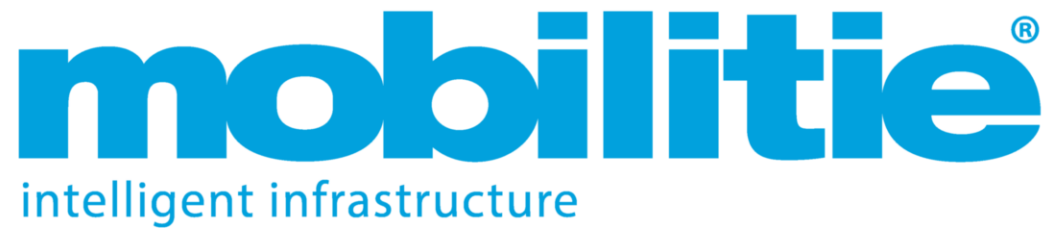
Please return this completed form to the Chicago Department of Transportation, Division of Infrastructure Management, Public Way Permit Office, City Hall - Room 905, 121 N. LaSalle St., Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday)

For CDPH Use Only



**VICINITY MAP**





# CHICAGO, IL

**SITE ID**

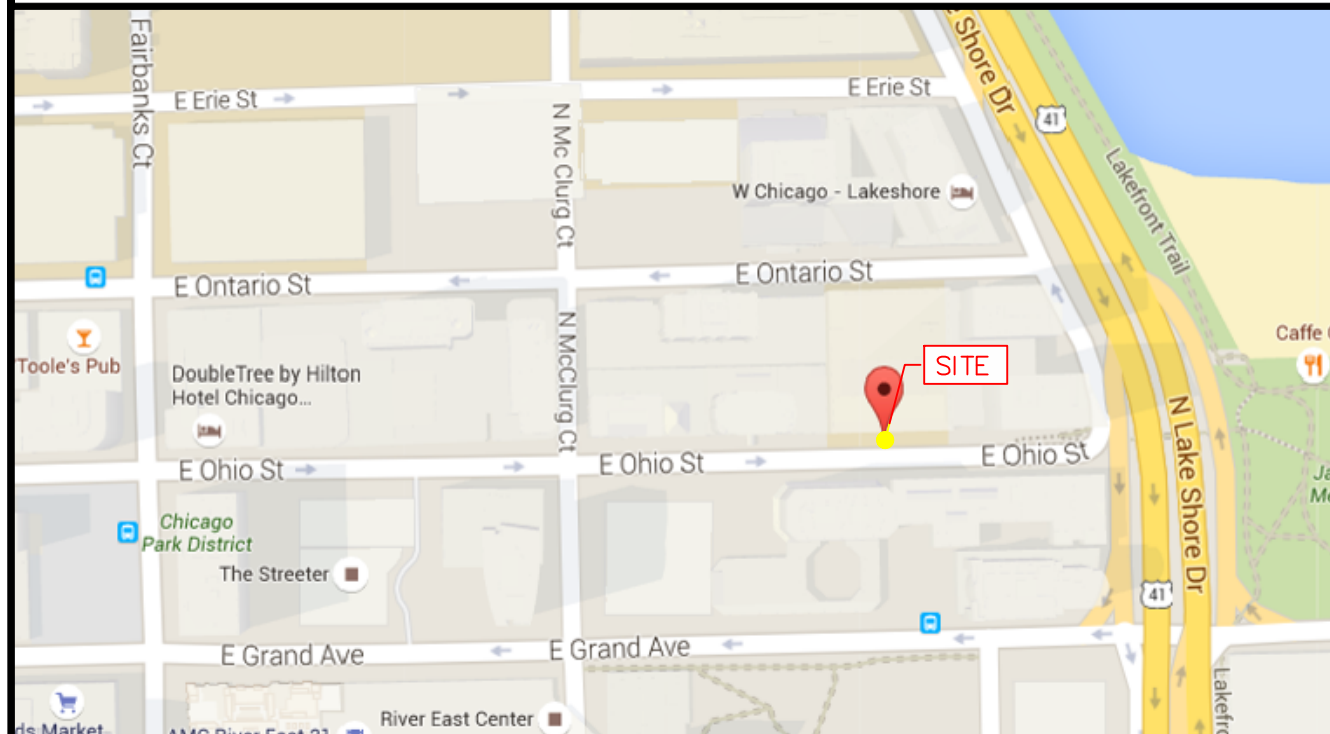
DASC CH90XSGJ2

**SITE ADDRESS**

440 E. OHIO ST., CHICAGO, IL

NOTE: RE-SUBMITTAL OF OUC # 2016-75473 DUE TO ALIGNMENT CHANGE

### REGIONAL MAP



DEO WO NO: 11617007



*Marino D. Fernandez*

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

### REVISIONS

BY	DESCRIPTION	DATE
TES	REV. A - CHANGE DEPTH OF GAS FACILITIES	5/1/17



CONSTRUCTION MANAGER:  
CHRIS SEIBEL  
17601 SOUTHWEST HIGHWAY  
ORLAND PARK, IL 60467  
P:708-326-3500  
C:708-670-6733

### INDEX OF SHEETS

SHEET NO:	SHEET TITLE
0.0	TITLE SHEET
0.1	CODE MATRIX
1.0	SITE PLAN & EXHIBIT PHOTO
2.0	POLE ELEVATIONS
2.1	POLE ELEVATIONS
3.0	ANTENNA & EQUIPMENT MOUNTING DETAILS
4.0	ELECTRICAL DETAILS
5.0	GROUNDING DETAILS
GN-1	GENERAL NOTES
GN-2	GENERAL NOTES
OSP-1	ALIGNMENT, TIE, AND BENCHMARK
OSP-2	RESTORATION PLAN
OSP-3	CROSS SECTION DETAILS
OSP-4	CDOT STANDARDS
OSP-5	CDOT STANDARDS
OSP-5.1	WATER MAIN CROSSING DETAILS
OSP-5.2	TRAFFIC CONTROL

FILE NO. 2016-045-008

### PROJECT INFORMATION

ADDRESS/CROSS ST: 440 E. OHIO ST. CHICAGO, IL

COUNTY: COOK COUNTY

UTILITIES: POWER "COMED"  
TELEPHONE "AT&T"  
CABLE "COMCAST / RCN"  
FIBER "TBD"

PROPERTY OWNER: PUBLIC RIGHT-OF-WAY

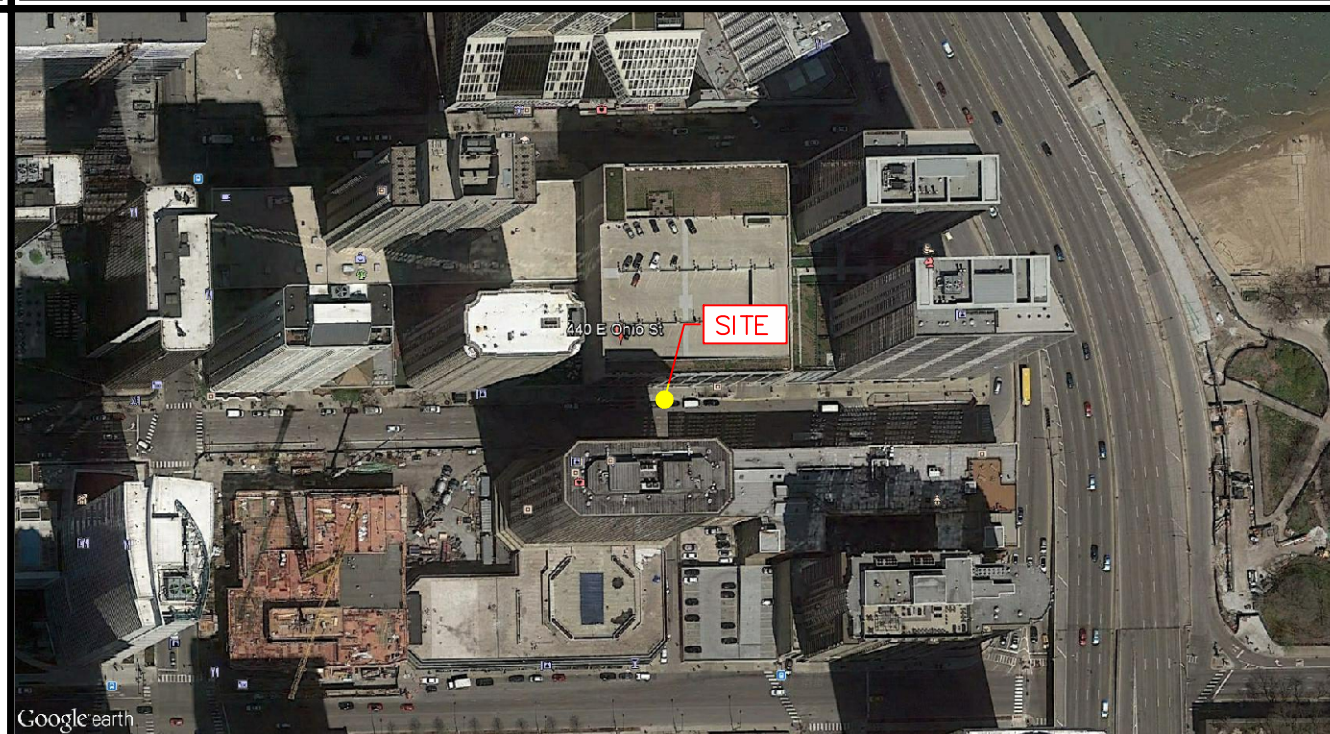
APPLICANT: MOBILITE TELECOMMUNICATION INFRASTRUCTURE



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### VICINITY MAP



### PERMITTING

JURISDICTION : CDOT

### PROJECT CONTACTS

MOBILITE:  
PROJECT MANAGER ROBERT J. WILSON  
CONTACT: 120 S. RIVERSIDE PLAZA., SUITE 1800  
CHICAGO, IL 60606  
PHONE: 312-343-4882

TELECOM ENGINEERING SERVICES, INC.:

ENGINEER MARINO D. FERNANDEZ  
CONTACT: 220 S. HALSTED ST., SUITE 300  
CHICAGO, IL 60661  
PHONE: 312-612-5216

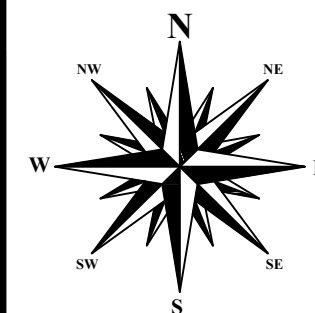
### BENCHMARK LOCATION

BENCHMARK NUMBER: #9

19 FEET S. OF THE N. LINE OF E. CHICAGO AVENUE

4 FEET E. OF E. LINE OF MICHIGAN TO W.

- (41.89682165290, -87.62401947060)



LATITUDE: 41° 53' 33.87" N (41.892742)

LONGITUDE: 87° 36' 56.98" W (-87.615827)

### PROJECT SUMMARY

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

- INSTALL PROPOSED SMALL CELL EQUIPMENT

### PROJECT INFORMATION

DRAWN BY:	TES
CHECKED BY:	TES
DATE:	8/9/16
PROJECT #:	DASC_CH90XSGJ2 - (OUC# 75473)
TITLE:	440 E. OHIO ST., CHICAGO, IL
SCALE:	PAGE: 0.0 OF: OSP-5

## SKETCH



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

**REVISIONS**

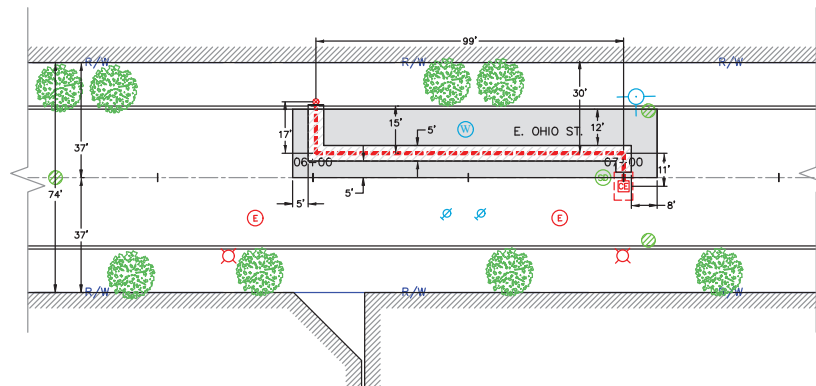
BY	DESCRIPTION	DATE
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CONSTRUCTION MANAGER:  
CHRIS SEIBEL  
17601 SOUTHWEST HIGHWAY  
ORLAND PARK, IL 60467  
P:708.326.3500  
C:708.670.6733

**PROJECT INFORMATION**

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SCALE:	PAGE: <b>OSP-2</b> OF: <b>OSP-5</b>



ASPHALT RESTORATION: 2,882 SQ. FT.  
CONCRETE SIDEWALK RESTORATION: 5 SQ. FT.  
TRENCH RESTORATION: 597 SQ. FT.

**NOTES:**  
THE FULL PERIMETER OF THE ASPHALT RESTORATION LIMITS SHALL BE SEALED COMPLETELY AT THE EDGE OF THE CUT SMOOTHING IRON OR BY MEANS OF INFRARED TREATMENT TO PREVENT WATER SEEPAGE INTO THE PAVEMENT, UNLESS OTHERWISE DIRECTED BY THE COMMISSIONER.

**LEGEND**

- UTILITY TRENCH OR UTILITY/STREET CUT WITHIN THIS ZONE
- CITY STANDARD FOR CONCRETE SIDEWALK RESTORATION
- CITY STANDARD FOR ASPHALT RESTORATION

**UTILITY NOTES:**  
\*USE EXTREME CAUTION NEAR COMED FACILITIES. HAND DIG WHILE CROSSING 69/138/345 KV TRANSMISSION LINE. COMED TRANSMISSION SHALL BE NOTIFIED 2 BUSINESS DAYS PRIOR TO THE START OF WORK. TO SCHEDULE AN ONSITE INSPECTION DURING CONSTRUCTION, CONTACT LESLIE PASCHAL AT (630) 437-4767.

HAND EXCAVATION IS REQUIRED TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE 24-INCH WATER MAIN PRIOR TO CROSSING. A MINIMUM OF 4 FEET OF UNDISTURBED SOIL IS TO REMAIN ON EITHER SIDE OF THIS EXISTING FEEDER MAIN. EXTREME CAUTION MUST BE TAKEN TO AVOID DAMAGE TO THESE WATER FACILITIES. IF ANY DAMAGE OCCURS TO THIS DEPARTMENT'S FACILITIES THE CONTRACTOR AND/OR OWNER WILL BE RESPONSIBLE FOR THE COST OF REPAIRING OR REPLACING THE DAMAGED FACILITIES.



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**PROPOSED RESTORATION PLAN**

SCALE: NOT TO SCALE



## Survey Readings 400-440 E. Ohio St

<u>Section</u>	<u>Depth</u>	<u>CPM</u>	<u>Section</u>	<u>Depth</u>	<u>CPM</u>
1	0"	-	5	0"	-
	16"	7,400-8,700 (unshielded)		16"	1,800-2,400 (shielded)
	16-36"(spoil)	1,400-2,900 (shielded)		16-36"	2,200-3,500 (shielded)
	36"	4,000-4,400 (shielded)		36"	2,400-4,500 (shielded)
	48"	4,100-4,400 (shielded)			
2	0"	-	6	0"	-
	16"	7,900-9,700 (unshielded)		16"	1,400-2,000 (shielded)
	16-36"	1,800-2,400 (shielded)		16-30"	1,500-2,600 (shielded)
	36"	2,900-3,600 (shielded)		30"	1,800-3900 (shielded)
3	0"	-	7	0"	-
	16"	1,800-3,100 (shielded)		0-90"	6,000-9,800 (unshielded)
	16-36"	2,100-3,400 (shielded)			
	36"	2,900-4,200 (shielded)			
4	0"	-			
	16"	1,200-1,900 (shielded)			
	16-36"	1,400-3,600 (shielded)			
	36"	2,900-3,900 (shielded)			
	45"	3,200-3,900 (shielded)			

