



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

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

October 18, 2017

Mr. Jim Steinike
Norman Mechanical Inc.
3850 Industrial Ave.
Rolling Meadows, IL 60611

RE: Water Service Installation – 243 E. Ontario St.
Permit No.: DOT853871
Permit Address: 243 East Ontario Street, Chicago, Illinois
AECOM Project No. 60522862

Dear Mr. Steinike:

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 between September 26 and 27, 2017 for a trench excavation for the installation of new water service.

Surveying was performed on the fill removed at 243 E. Ontario Street required to address a new water service line installation. The work consisted of one 4.5 foot wide, approximately 16 foot long trench excavation. The excavation was excavated to approximately 8.5 feet below ground surface (bgs). Refer to the attached sketch for the location of the 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). Gamma radiation count measurements for the project were recorded using Ludlum Models 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 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 1,400 cpm to a maximum of 2,600 cpm shielded. The general subsurface stratigraphy was composed of urban fill and rip rap, down to approximately 6 feet bgs where with fine tan native sand was located. 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

Permit No.: DOT853871
Permit Address: 243 E. Ontario St.
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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

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): Norman Mechanical / Jim Steinike Signature: Jim Steike

Site Address and Work Location (Describe exact site location and attach map): 243 E. Ontario Street (AKA 237 E Ontario)

Excavate for and install new water service approx 37' E of West property line

Nature of Work: Excavate for and install new sewer service approx 7.6' W of East property line

Company Name, Address, Phone No.: Norman Mechanical Inc. 847.253.2238

3850 Industrial Ave., Rolling Meadows, IL 60008
AECOM Tishman

General / Prime Contractor Name, Address, Phone No.: 230 E Ohio, Suite 300, Chicago, IL 60611

Include subcontractor information if applicable) Mark Gott 847.626.4125

Safety Officer / Phone No. Mark Gott 847.626.4125

Radiation Contractor / Phone No. and email address (if applicable) AECOM Steve Kornder 262.515.7700
steve.kornder@aecom.com

Check if City Department Work Department Name: _____

CDOT Permit No.: Application DOT853871

Today's Date: 8/31/2017 Expected Start Date: 9/11/2017 CDPH Approval / Date: [Signature] 9/1/17

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



ARCHITECT: MUELLER MARTIN ARCHITECTS P.C.
 1100 N. LA SALLE ST. 11TH FLOOR
 CHICAGO, IL 60610
 www.muellermartin.com

PROJECT TEAM:
 JOSEPH VALERIO
 ROBERT WESBER
 MATT HAMMERS
 ENGINEERS/ARCHITECTS

UTILITY PLAN

DATE SUBMITTED: 05/11/2015
 10:00AM
 WORKBOOK NUMBER: 00207
 WORKBOOK DATE: 05/11/2015
 SHEET: 01

CONSULTANT PROJECT NUMBER: *01000000*

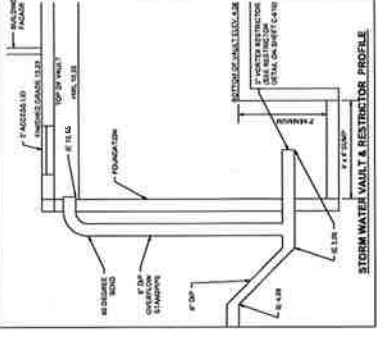
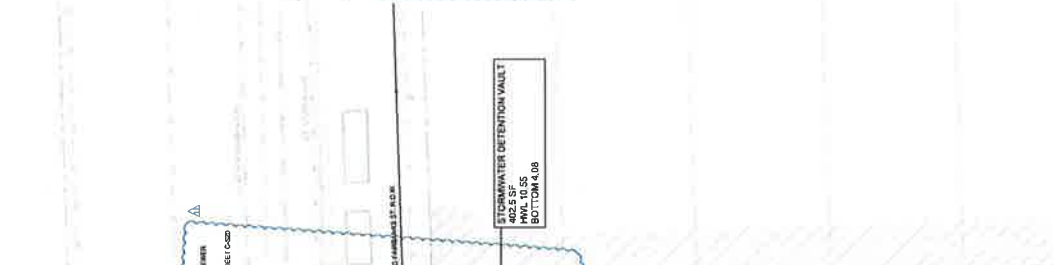
NO.	DESCRIPTION	DATE
1	ISSUE FOR PERMITTING	05/11/2015
2	REVISED FOR PERMITTING	05/11/2015
3	REVISED FOR PERMITTING	05/11/2015
4	REVISED FOR PERMITTING	05/11/2015
5	REVISED FOR PERMITTING	05/11/2015
6	REVISED FOR PERMITTING	05/11/2015
7	REVISED FOR PERMITTING	05/11/2015
8	REVISED FOR PERMITTING	05/11/2015
9	REVISED FOR PERMITTING	05/11/2015
10	REVISED FOR PERMITTING	05/11/2015

BY: [Signature]
 DATE: 05/11/2015
 TITLE: PROJECT MANAGER

- NOTES:
1. CONNECTION TO FIELD VERIFY LOCATION, INVERT, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO COMMENCING ANY TRENCH OR BORROWING UTILTY WORK. CONTRACTOR TO VERIFY LOCATION OF ANY OCCUPANCY IMMEDIATELY.
 2. ALL EXISTING UTILITIES AND STRUCTURES SHALL BE PROTECTED AND PROTECTED STRUCTURES SHALL ALSO CONFORM TO LOCAL CITY OF CHICAGO REQUIREMENTS.
 3. EXISTING MANHOLE COVERINGS SHALL BE REPAIR OR REPLACED WITH NEW MANHOLES & COVERINGS TO MATCH EXISTING MANHOLES.
 4. EXISTING MANHOLES AND BELLIES SHALL BE EXTERNALLY VENTED AS PER REQUIREMENTS TO CITY OF CHICAGO.
 5. EXISTING MANHOLES AND BELLIES SHALL BE REINFORCED CONCRETE AND CONFORM TO CITY OF CHICAGO REQUIREMENTS.
 6. ALL EXISTING MANHOLES AND BELLIES SHALL BE REINFORCED CONCRETE AND CONFORM TO CITY OF CHICAGO REQUIREMENTS.
 7. ALL EXISTING MANHOLES AND BELLIES SHALL BE REINFORCED CONCRETE AND CONFORM TO CITY OF CHICAGO REQUIREMENTS.
 8. ALL EXISTING MANHOLES AND BELLIES SHALL BE REINFORCED CONCRETE AND CONFORM TO CITY OF CHICAGO REQUIREMENTS.

UTILITY CROSSINGS

NO.	DESCRIPTION	DATE
1	EXISTING 12" WATER MAIN TO BE SHOWN IN FIELD	05/11/2015
2	EXISTING 12" WATER MAIN TO BE SHOWN IN FIELD	05/11/2015
3	EXISTING 12" WATER MAIN TO BE SHOWN IN FIELD	05/11/2015
4	EXISTING 12" WATER MAIN TO BE SHOWN IN FIELD	05/11/2015
5	EXISTING 12" WATER MAIN TO BE SHOWN IN FIELD	05/11/2015
6	EXISTING 12" WATER MAIN TO BE SHOWN IN FIELD	05/11/2015
7	EXISTING 12" WATER MAIN TO BE SHOWN IN FIELD	05/11/2015
8	EXISTING 12" WATER MAIN TO BE SHOWN IN FIELD	05/11/2015
9	EXISTING 12" WATER MAIN TO BE SHOWN IN FIELD	05/11/2015
10	EXISTING 12" WATER MAIN TO BE SHOWN IN FIELD	05/11/2015



STORMWATER MANAGEMENT SUMMARY

STORMWATER DETENTION REQUIREMENT: 2,800 CF, 2.5M GAL PROVIDED

VOLUME CONTROL REQUIREMENT: 54,111 GAL

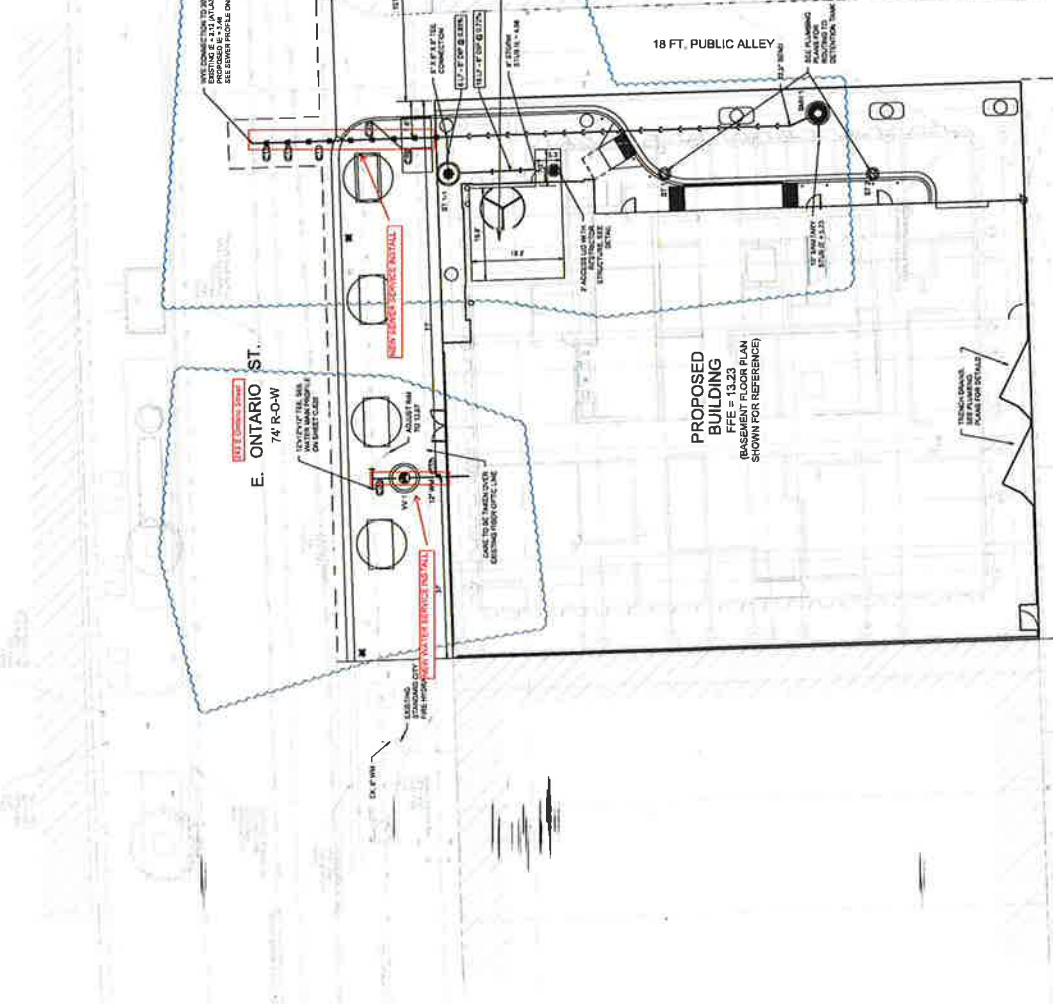
ASSESSMENT:
 TOTAL WAREHOUSING AREA: 2,145 SF
 TOTAL WAREHOUSING AREA: 2,145 SF
 TOTAL WAREHOUSING AREA: 2,145 SF

REQUIRED STORMWATER DETENTION VOLUME TO BE PROVIDED WITHIN WATER TIGHT CAST-IN-PLACE CONCRETE VAULT

VOLUME CONTROL REQUIREMENT MET THROUGH THE REDUCTION OF APPROXIMATE 18% OF THE REQUIRED STORMWATER DETENTION VOLUME

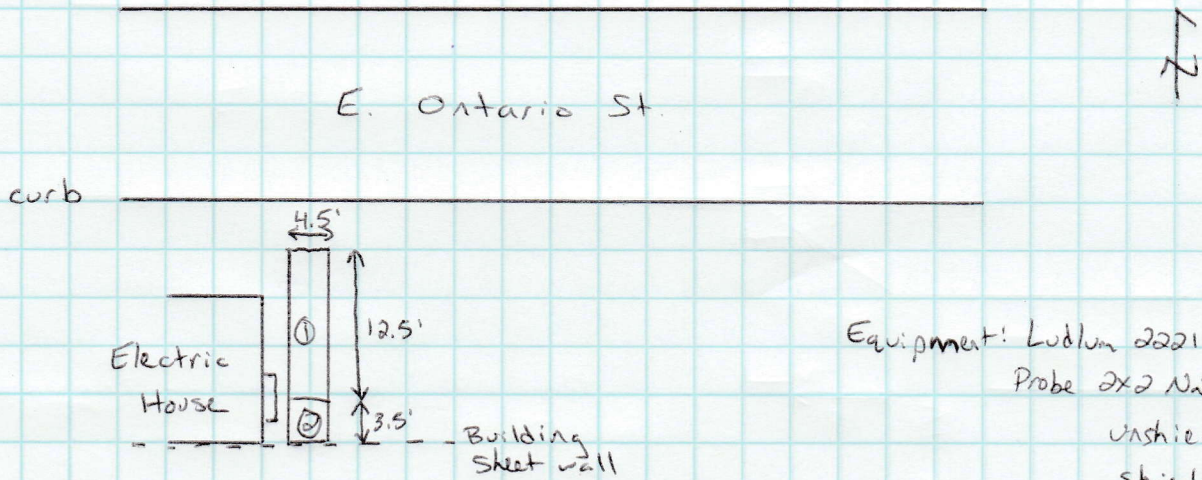
ALLOWED RELEASE RATE OF 1.5 GPM PER 100 SF OF WAREHOUSING AREA

NO DETENTION VOLUME CREDIT ASSUMED FOR STORMWATER RELEASE



SKETCH

Job Title: 243 E. Ontario St. - Water
 Originator: K. Koczak
 Date: 10-10-17



Equipment: Ludlum 2221 S/N: 172039
 Probe 2x2 NAI S/N: PR174406
 unshielded: 18,551
 shielded: 7,374

	Depth	CPM (shielded)
①	0-10"	Concrete
	10"	1700-2200
	28"	1800-2400
	40"	1800-2600
	4-6' (spoil)	1400-2600
	6-6.5' (spoil)	tan native sand
	6.5-8.5' (spoil)	tan native sand
②	0-10"	Concrete
	10"-2' (spoil)	1500-2000
	2-5.5' (spoil)	1600-1900