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fax

January 22, 2018

Mr. Alex Ohlson City Lights, Ltd. 9993 Virginia Ave. Chicago Ridge, IL 60415

RE: Installation of Red Light Cameras – 615-640 N. Michigan Ave. and 101-155 E. Ontario

Permit No.: DOT901137

Permit Address: 615-640 N. Michigan Ave. and 101-155 E. Ontario, Chicago, Illinois

AECOM Project No. 60513867

Dear Mr. Ohlson:

Pursuant to conditions specified in the 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 January 9 and 10, 2018 for excavations and directional boring to install red light cameras and conduit.

Surveying was performed on the fill soil removed at 615-640 North Michigan Avenue (see sketch) required for the installation of red light cameras foundations and conduit on January 9, 2018. 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 a shielded 2 x 2 inch Nal probe (Model 44-10). For the instrument used, the gamma count threshold indicative of the 7.1 pCi/g removal action level is 7,293 (S/N: 326720) counts per minute (cpm) shielded. The field instrument background from a nearby tree planter was 3,100 cpm.

The initial work consisted of two excavations and associated horizontal boring. The first excavation located on North Michigan Avenue about 70 feet north of East Ontario Street was 10 foot by 6 foot wide where the sidewalk was removed (refer to attached photos). The western half of this excavation only required that the surface be screened after the removal of the 6 inch thick sidewalk concrete, since no excavation was required. In the center of the east half of the excavation was a 2.5 by 2.5 foot area that was excavated to approximately 5 feet below ground surface (bgs) for installation of the camera foundation. Upon removing the upper 6 inches of fill soil beneath the concrete for the foundation, elevated readings above the removal action level were observed on the southern end of this excavation (southeast corner). These values averaged 7,500 counts per minute (cpm) to 8,500 cpm, with a maximum of 10,300 shielded. While attempting to determine the extent of these readings, fill soil was removed in 2 to 3 inch lifts and screened within the bucket as well as on the spoil pile. This process continued until the final depth of five feet bgs was reached. The readings from the bucket ranged from a minimum of 2,000 cpm to a maximum of 4,400 cpm shielded. The spoil was stockpiled and screened again, ranging from 2,600 to 5,200 cpm shielded.

As the excavating continued, the in situ southern sidewall of the excavation was observed to have elevated readings of up to 11,800 cpm shielded approximately 12 inches beneath the top of the sidewalk. Base on the readings observed, it is believed that the contaminated fill soil was present farther to the south and that the readings observed on the excavation sidewall were shine from that undisturbed contaminated material. Since no further excavation to the south was necessary, the contaminated fill was left in place and the southern excavation sidewall was covered with a layer of plastic prior to backfilling the excavation. No radiologically contaminated fill soil above the USEPA removal action level was removed from the excavation. See the attached photos and sketch for the location of this excavation.

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The north wall of the excavation was approximately 3 feet south of the existing light pole and the excavation extended south an additional 6 feet (southern edge about 9 feet south of the light pole). Refer to the annotated drawing on which the light pole and camera foundation are indicated. This area is located approximate 23 feet south of the information sign foundation location where elevated gamma readings were identified previously by Stan Huber (October 2011) and again by AECOM (July 2017). However, neither of these previous projects conducted subsurface excavation activities at the traffic camera location.

The second excavation to the south was 11.5 foot by 5 foot, with a smaller trench within this excavation, and another camera foundation excavated to 5 feet bgs. Surveying did not indicate the presence of any fill soil above the removal action level (refer to the attached sketch).

Surveying also occurred at 101-155 East Ontario Street on January 10, 2018 for the installation of another red light camera and supporting conduit. This work consisted of four excavations. The excavations, going from east to west were the follow dimensions, 7 by 13 foot, 7 by 4 foot, 7 by 4 foot, and 15 by 4 foot. The first excavation was surface screened beneath approximately 6 inches of concrete sidewalk removed. The second excavation was screened down to 12 inches bgs, with the southern edge being removed to 30 inches bgs. The third area was excavated to 12 inches bgs. The fourth and final area was excavated to 30 inches bgs (refer to the attached sketch)

Other than the in situ gamma readings observed within the excavation along N. Michigan Avenue discussed above, the rest of the monitoring did not observe fill soils that were above the removal action level established by the USEPA for the Streeterville area of Chicago. The field gamma measurements for the spoil and within the remaining excavations did not exceed the instrument threshold previously stated, and ranged from a minimum of 1,400 cpm to a maximum of 4,000 cpm shielded. The general subsurface stratigraphy was composed of urban fill and potentially native sand toward the base of the deeper excavations. 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,

Kyle Korczak Geologist

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

Terry Sheahan, Chicago Department of Public Health CC:

Verneta Simon, USEPA

Attachments: Permit

Annotated Drawing and Sketch

Photos

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-ofway. 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): Alex Ohlson Site Address and Work Location (Describe exact site location and attach map): 615 - 640 Company Name, Address, Phone No.: General / Prime Contractor Name, Address, Phone No.: *Include subcontractor information if applicable)* Safety Officer / Phone No. Radiation Contractor / Phone No. and email address (if applicable) AECOMCheck if City Department Work □ Department Name: CDOT Permit No.: DOT 90137 Today's Date: 12/27/17 Expected Start Date: 1/2/18 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

Google Maps

Michigan & Ontario

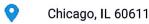




Michigan & Ontario

Stop ID: 1124

Bus Station

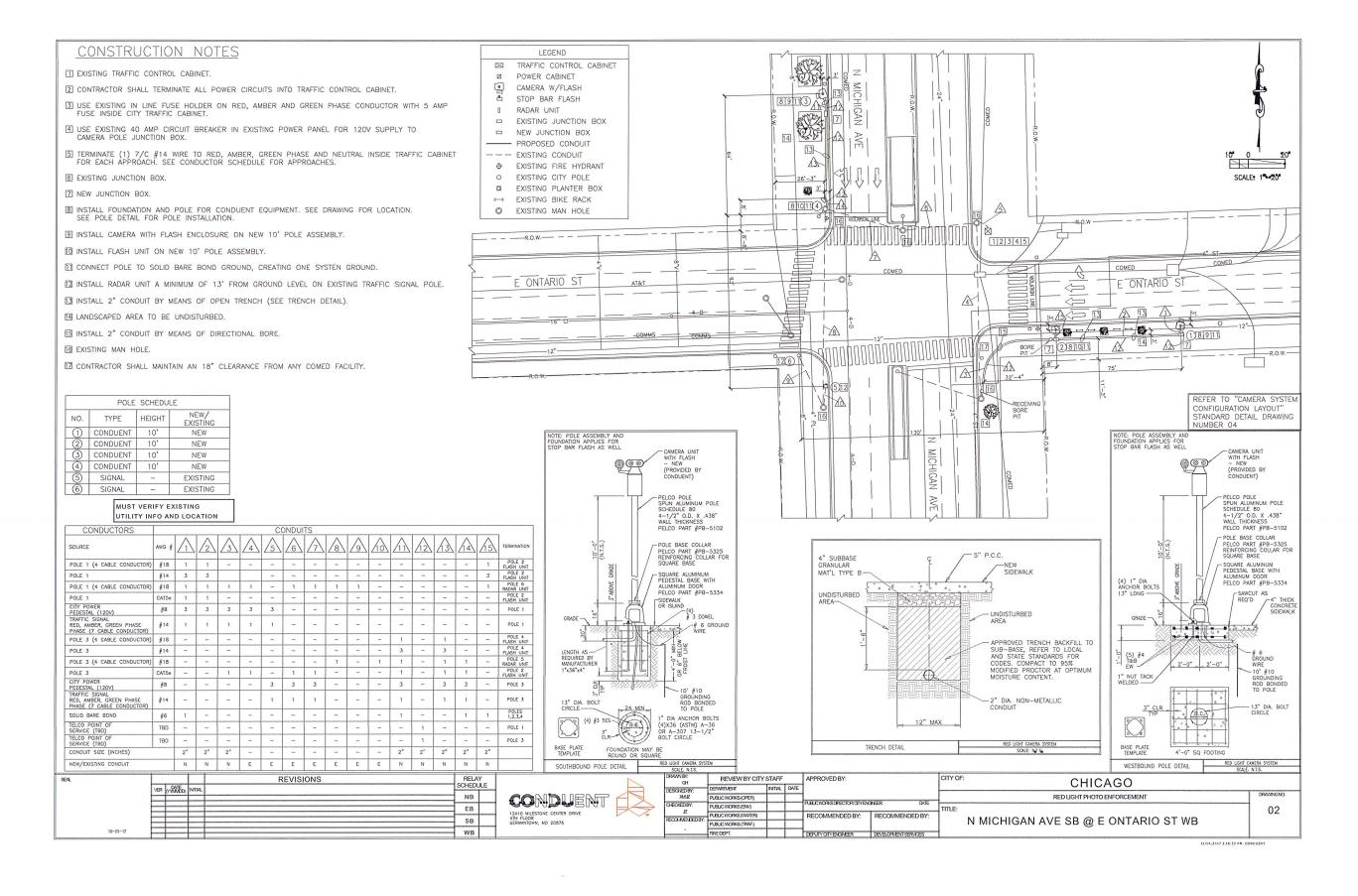


Buses

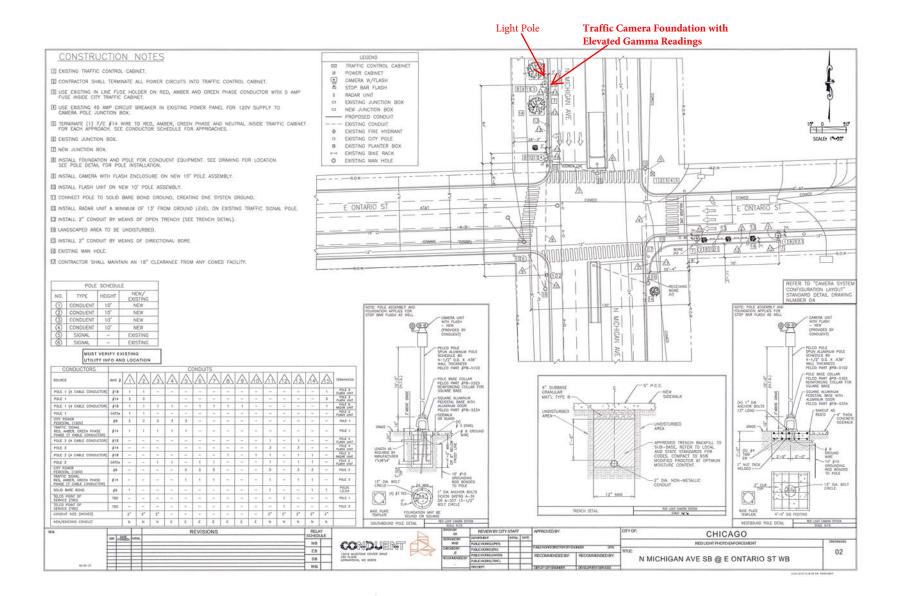
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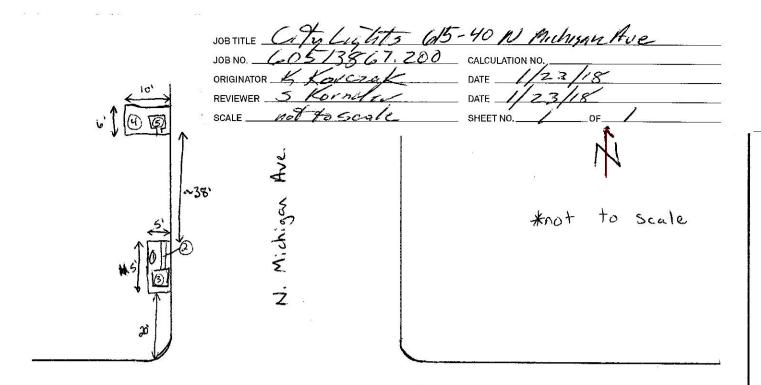
Departure board

pacebus.com transitchicago.com - Ticket prices

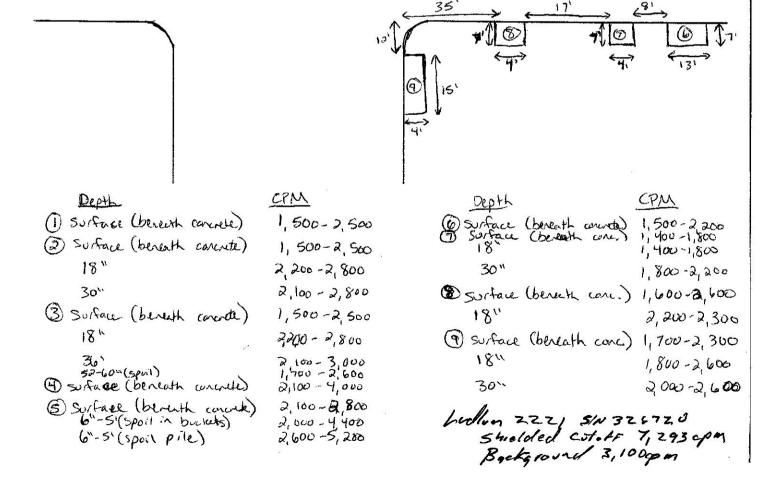


ANNOTATED DRAWING AND SKETCH





E. Ontario St.



PHOTOS

626 N Michigan Ave



Traffic camera excavation location

Information sign in area identified previously as having eleveated gamma readings.

626 N Michigan Ave – Traffic Camera Foundation January 9, 2018

