



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

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

July 2, 2018

Mr. Bill McNeely
Tishman Construction Company
100 S. Wacker Dr.
Chicago, IL 60606

RE: Radiological Survey of Alley Restoration
Permit No.: DOT962033
Permit Address: 243 E. Ontario St.
AECOM Project No. 60522862

Dear Mr. McNeely:

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 June 7 and 20, 2018 during an alley restoration/reconstruction.

Surveying was performed within the excavation and on the spoil removed at 230 E. Ontario St. (refer to sketch). The excavation involved removal of existing alley pavement and underlying sub-base within the alley, approximately 150-feet west of the intersection of N. Fairbanks Ct. and E. Ontario St. The alley roadway removal was approximately 150-feet long, 16-feet wide, and to a depth of 12-inches below ground/pavement surface (bgs).

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 (s/n: 326720) survey meter and an unshielded 2 x 2 inch NaI probe (Model 44-10). For the two instruments used, the gamma count threshold indicative of the 7.1 pCi/g removal action level is 7,293 (S/N: 326720) and 6,367 (S/N: 176944) counts per minute (cpm) shielded.

The field gamma measurements within the excavations and of the spoil during the excavation process did not exceed the instrument threshold previously stated and ranged from a minimum of 1,600 cpm to a maximum of 4,500 cpm shielded. 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.: DOT962033
Permit Address: 230 E. Ontario 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 Geoscientist

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

Attachments: Permit
Sketch and Results

PERMIT



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

FORM NO. CDPH.ROW.03 (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):

Signature: Lee Henry

Site Address and Work Location (Describe exact site location and attach map): north / south alley west of Fairbanks, south of Ontario,

Nature of Work: Alley Restoration/Reconstruction for Aloft Hotel Development

Lee Henry 574-229-5501

Company Name, Address, Phone No.: AECOM Tishman, 230 E Ohio St. 312-374-3361

General / Prime Contractor Name, Address, Phone No.: AECOM Tishman, 230 E Ohio St. 312-374-3361

Include subcontractor information if applicable) Safety Officer / Phone No. Bill McNeely 224-501-1914

Radiation Contractor / Phone No. (if applicable) AECOM Technical Services 312-939-1000

Check if City Department Work [] Department Name:

CDOT Permit No.: DOT 962033

Today's Date: 6/6/18

Expected Start Date: 6/11/18

CDPH Approval / Date: [Signature] 6-7-18

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



DESIGN TEAM
 ARCHITECT
 INTERIORS
 LUMINA CONSULTANTS
 CIVIL ENGINEER
 GEOTECHNICAL ENGINEER
 STRUCTURAL ENGINEER
 MECHANICAL ENGINEER
 ELECTRICAL ENGINEER
 PLUMBING ENGINEER
 ENVIRONMENTAL ENGINEER
 TRANSPORTATION ENGINEER
 LANDSCAPE ARCHITECT
 HISTORIC PRESERVATION ARCHITECT
 SPECIALTY CONSULTANTS

DATE: 10/15/14
 DRAWN BY: J. HARRIS
 CHECKED BY: J. HARRIS
 PROJECT NO.: 14-00001
 SHEET NO.: 01-01
 TOTAL SHEETS: 01-01

CONCRETE FINISH SCHEDULE

| NO. | DESCRIPTION | DATE |
|-----|--------------------------|----------|
| 1 | CONCRETE FINISH SCHEDULE | 10/15/14 |
| 2 | REVISIONS | |
| 3 | REVISIONS | |
| 4 | REVISIONS | |
| 5 | REVISIONS | |
| 6 | REVISIONS | |
| 7 | REVISIONS | |
| 8 | REVISIONS | |
| 9 | REVISIONS | |
| 10 | REVISIONS | |
| 11 | REVISIONS | |
| 12 | REVISIONS | |
| 13 | REVISIONS | |
| 14 | REVISIONS | |
| 15 | REVISIONS | |
| 16 | REVISIONS | |
| 17 | REVISIONS | |
| 18 | REVISIONS | |
| 19 | REVISIONS | |
| 20 | REVISIONS | |

LAYOUT AND PAVING
 PLAN



- NOTES**
- ALL DIMENSIONS SHOWN ARE TO FACE UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.
 - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF CHICAGO DEPARTMENT OF PUBLIC WORKS AND ENGINEERING SPECIFICATIONS FOR PAVING AND CONCRETE.
 - CONCRETE SHALL BE PLACED AND FINISHED IN ACCORDANCE WITH THE CITY OF CHICAGO DEPARTMENT OF PUBLIC WORKS AND ENGINEERING SPECIFICATIONS FOR PAVING AND CONCRETE.
 - SEE ARCHITECT'S DRAWINGS FOR FINISH SCHEDULE AND MATERIALS.
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 - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF CHICAGO DEPARTMENT OF PUBLIC WORKS AND ENGINEERING SPECIFICATIONS FOR PAVING AND CONCRETE.
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PAVING LEGEND

COOT PAVEMENT RESTRICTION:

- 1" MIN. THICKNESS OF BITUMINOUS SURFACE COURSE AND 2" MIN. THICKNESS OF BITUMINOUS COURSE AND 4" MIN. THICKNESS OF BITUMINOUS BASE COURSE
- 1" MIN. THICKNESS OF BITUMINOUS SURFACE COURSE AND 2" MIN. THICKNESS OF BITUMINOUS COURSE AND 4" MIN. THICKNESS OF BITUMINOUS BASE COURSE

CONCRETE SUBGRADE:

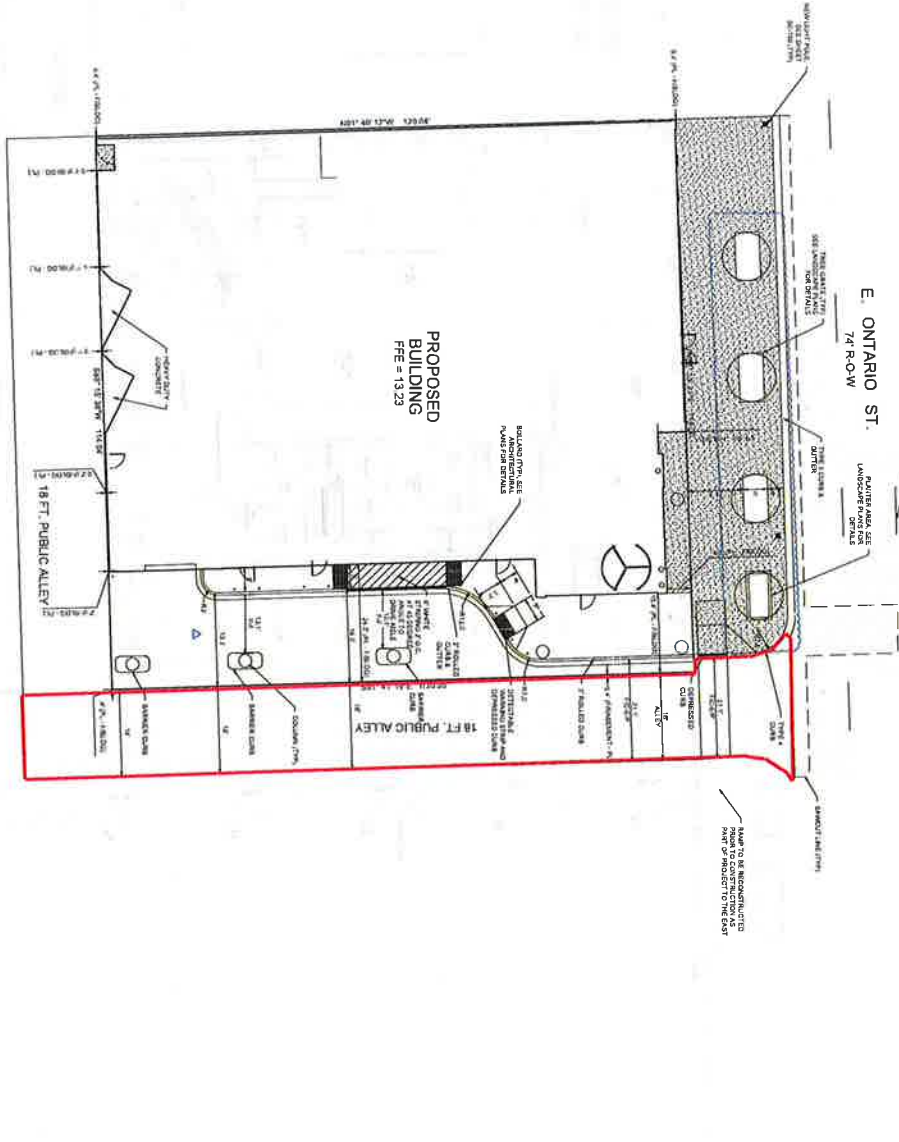
- 1" MIN. THICKNESS OF CONCRETE
- 1" MIN. THICKNESS OF CONCRETE
- 1" MIN. THICKNESS OF CONCRETE

CONCRETE PAVEMENT (SLOPE DUTY):

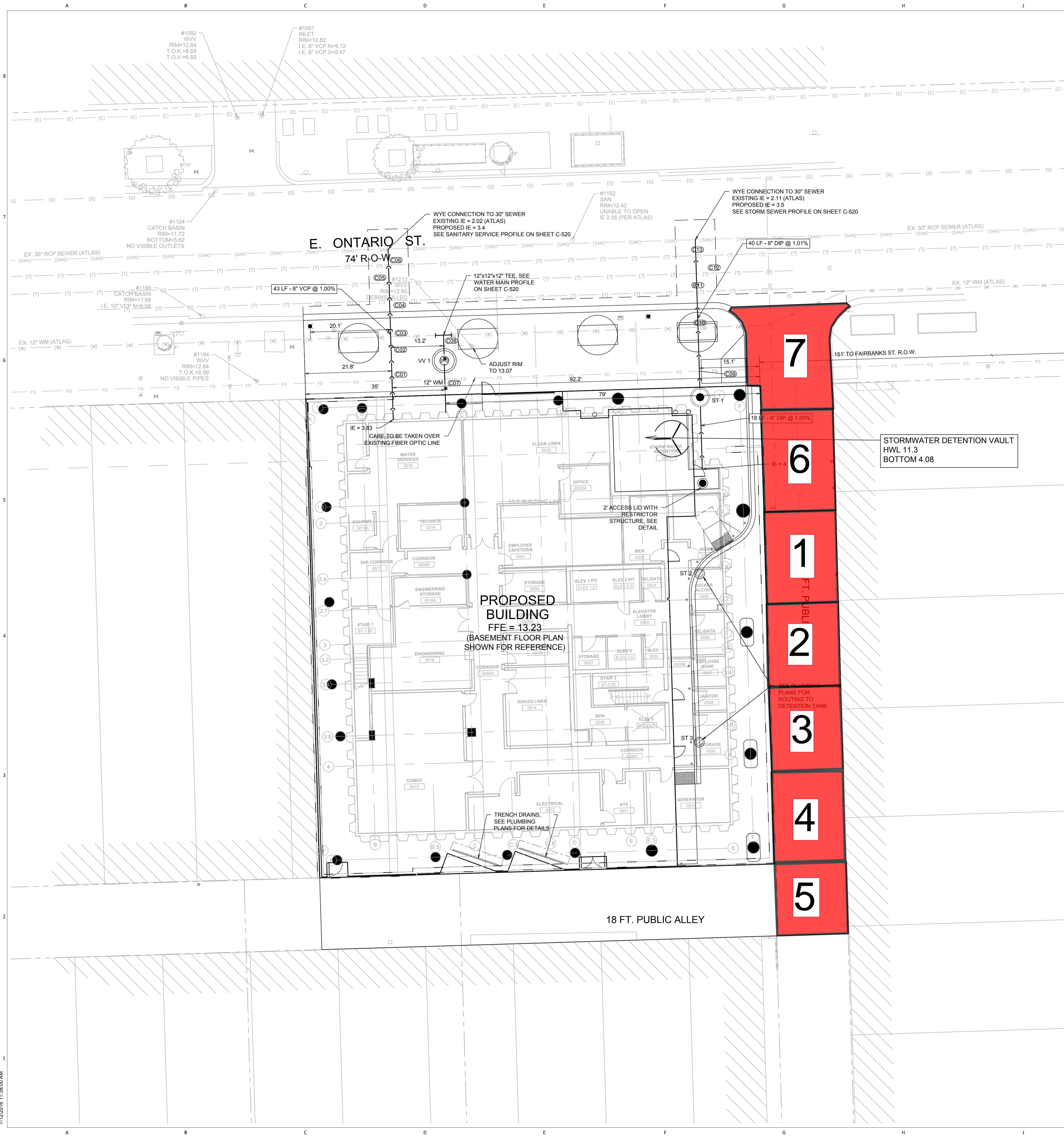
- 1" MIN. THICKNESS OF CONCRETE
- 1" MIN. THICKNESS OF CONCRETE
- 1" MIN. THICKNESS OF CONCRETE

STRUCTURAL CONCRETE:

- 1" MIN. THICKNESS OF CONCRETE
- 1" MIN. THICKNESS OF CONCRETE
- 1" MIN. THICKNESS OF CONCRETE



SKETCH AND RESULTS



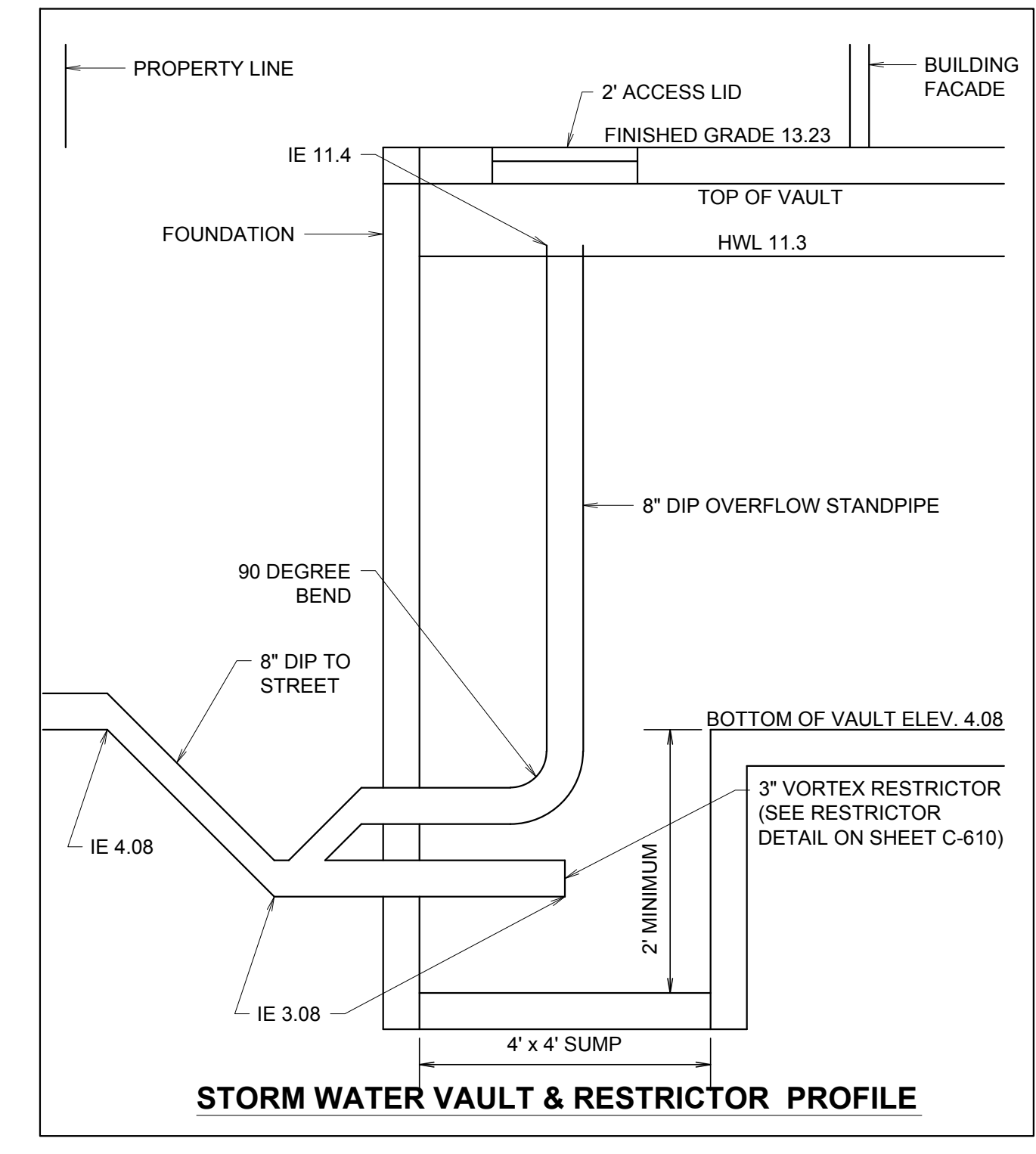
- ST 1
4' CB WITH
BACKFLOW PREVENTER
RIM: 13.20
IE: 3.90 (S)
IE: 3.90 (N)
- ST 2
ROOF DRAIN
RIM: 12.91
- ST 3
ROOF DRAIN
RIM: 12.90
- VV 1
12" VALVE VAULT
RIM: 13.03

NOTES:

1. CONTRACTOR TO FIELD VERIFY LOCATION, INVERT, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO ORDERING MATERIALS OR BEGINNING UTILITY WORK. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
2. ALL FRAME AND OPEN LID STRUCTURES AND FRAME AND CLOSED LID STRUCTURES SHALL ALSO CONFORM TO LOCAL CITY OF CHICAGO STANDARDS.
3. SEWERS 21-INCHES IN DIAMETER AND SMALLER SHALL BE EXTRA STRENGTH VITRIFIED CLAY PIPE CONFIRMING TO ASTM C-700 WITH C-425 JOINTS.
4. SEWERS 24-INCHES IN DIAMETER AND LARGER SHALL BE REINFORCED CONCRETE PIPE CONFIRMING TO ASTM DESIGNATION C-78, CLASS III WALL-B WITH O-RING JOINTS AT A MINIMUM.
5. UNLESS INDICATED OTHERWISE, SEWER STRUCTURES WITH OPEN LIDS SHALL BE 4' DIAMETER CATCH BASINS. STORM SEWER STRUCTURES WITH CLOSED LIDS TO BE 4' DIAMETER MANHOLES. SEWER MANHOLES & CATCH BASINS SHALL BE PRECAST REINFORCED CONCRETE COMPLYING WITH ASTM DESIGNATION C-433.
6. ALL WATERMAIN SHALL BE DUCTILE IRON PIPE, CLASS 52, UNLESS OTHERWISE INDICATED
7. SUBSURFACE EXPLORATIONS AND FOUNDATION RECOMMENDATIONS REPORT WAS NOT AVAILABLE AT THE TIME OF SCHEMATIC DESIGN ISSUANCE.
8. STORMWATER DETENTION CALCULATIONS ARE BASED ON THE ASSUMPTIONS NOTED BELOW.
9. ROOF DRAINS TO CONNECT TO ON SITE STORM SEWER SYSTEM TRIBUTARY TO THE STORMWATER VAULT. SEE PLUMBING PLANS BY COSENTINI FOR ROOF DRAIN ROUTING.
10. DEPTHS OF EXISTING TELECOMMUNICATION UTILITIES UNAVAILABLE AT THE TIME OF DESIGN.

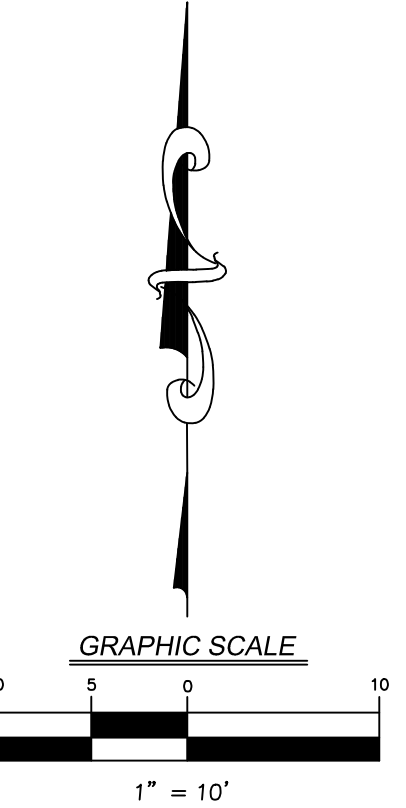
UTILITY CROSSINGS

- C01 EX. F.O. B/P TO BE VERIFIED IN FIELD PR. 8" SAN T/P = 4.48
- C02 PR. 8" SAN TO AVOID EX. ELEC LINE
- C03 EX. 12" WM B/P = 6.9 TO BE VERIFIED IN FIELD PR. 8" SAN T/P = 4.37
- C04 EX. TELE B/P TO BE VERIFIED IN FIELD PR. 8" SAN T/P = 4.28
- C05 EX. TELE B/P TO BE VERIFIED IN FIELD PR. 8" SAN T/P = 4.24
- C06 EX. TELE B/P TO BE VERIFIED IN FIELD PR. 8" SAN T/P = 4.19
- C07 EX. F.O. B/P TO BE VERIFIED IN FIELD PR. 12" WM T/P = 7.55
- C08 PR. 12" WM TO AVOID EX. ELEC LINE
- C09 EX. F.O. B/P TO BE VERIFIED IN FIELD PR. 8" ST T/P = 4.58
- C10 EX. 12" WM B/P = 7.0 TO BE VERIFIED IN FIELD PR. 8" ST T/P = 4.47
- C11 EX. TELE B/P TO BE VERIFIED IN FIELD PR. 8" ST T/P = 4.38
- C12 EX. TELE B/P TO BE VERIFIED IN FIELD PR. 8" ST T/P = 4.34
- C13 EX. TELE B/P TO BE VERIFIED IN FIELD PR. 8" ST T/P = 2.9



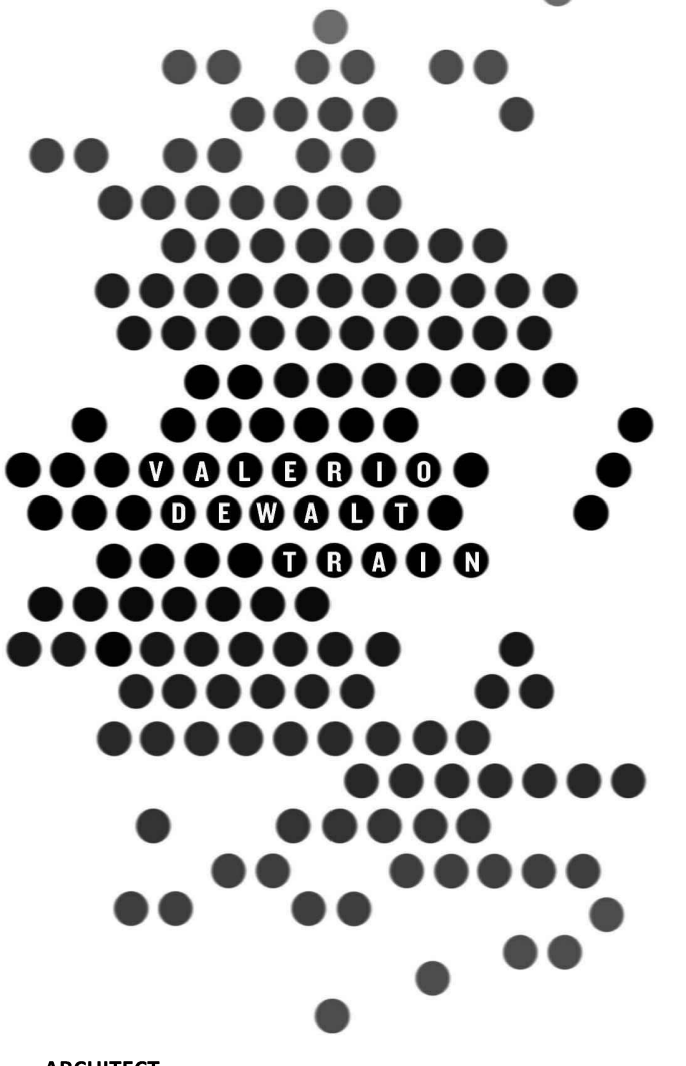
STORMWATER MANAGEMENT SUMMARY

| | |
|--|---------------------------------|
| STORMWATER DETENTION REQUIRED* | 2,388 C.F., 2,815 C.F. PROVIDED |
| VOLUME CONTROL REQUIRED** | N/A ** |
| ASSUMPTIONS: | |
| TOTAL PERVIOUS AREA | 5,235 SF |
| LANDSCAPE (GREEN ROOF) | 0 SF |
| TOTAL IMPERVIOUS AREA | 11,809 SF |
| (PAVED HARDSCAPE) | 0 SF |
| (CONVENTIONAL ROOF) | 8,452 SF |
| (SIDEWALL TRIBUTARY TO ROOF) | 2,953 SF |
| * REQUIRED STORMWATER DETENTION VOLUME TO BE PROVIDED WITHIN A WATER TIGHT CAST-IN-PLACE CONCRETE VAULT | |
| ** VOLUME CONTROL REQUIREMENT MET THRU THE REDUCTION OF IMPERVIOUS AREA ON SITE INCLUDING THE GREEN ROOF SYSTEM. | |
| *** ALLOWABLE RELEASE RATE OF 0.076 CFS CALCULATED BY 0.165 CFS DWF (0.89 CFS) | |
| **** NO DETENTION VOLUME CREDIT ASSUMED FOR STORMWATER REUSE. | |



PROJECT NAME
ALOFT CHICAGO
MAGNIFICENT
MILE

PROJECT ADDRESS
243 EAST ONTARIO STREET
CHICAGO IL 60611



ARCHITECT
VALERIO DEWALT TRAIN ASSOCIATES, INC.
500 N. DEARBORN, 9TH FLOOR
CHICAGO, ILLINOIS 60654
312.260.7300
www.builtordie.com

PROJECT TEAM **ARCHITECT STAMP**
JOSEPH VALERIO
DAVID JENNERLAHN
ROBERT WEBBER
HAO PHUNG
MATT GAMACHE
STEPHEN SHATSWELL

VDTA PROJECT NUMBER
13057.00

CONSULTANT
V3 COMPANIES
7325 JANES AVENUE
WOODRIDGE, ILLINOIS 60517
630.724.9200
www.V3co.com

CONSULTANT PROJECT NUMBER
14213

| ISSUE | | |
|-------|-----------------------|------------|
| NO. | REVISION DESCRIPTION | DATE |
| 1 | IN-PROGRESS CHECK SET | 06/13/2016 |
| 2 | IN-PROGRESS CHECK SET | 07/08/2016 |
| 3 | FOUNDATION PERMIT | 07/15/2016 |
| 4 | 50% CDS CHECKSET | 09/16/2016 |

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SHEET TITLE
UTILITY PLAN

SHEET NUMBER
C-500

7/12/2016 11:38:00 AM

Survey Results
230 E. Ohio St.
AECOM/Tishman

Survey Equipment

| | |
|--------------------|-----------------------|
| Ludlum 2221 S/N: | 326720 / 176944 |
| Probe 2x2 NaI S/N: | PR360158 / RN21187 |
| shielded: | 7,293 cpm / 6,367 cpm |
| background: | - |
| Personnel: | S. He |
| Date of Screening: | 6.7.18 / 6.20.18 |

Survey Results

| Section | Depth (inches) | Readings (CPM) |
|---------|----------------|----------------|
| 1 | 12 | 2,300-3,100 |
| 2 | 12 | 1,900-2,900 |
| 3 | 12 | 2,400-3,700 |
| 4 | 12 | 2,200-3,500 |
| 5 | 12 | 2,400-4,500 |
| 6 | 12 | 1,600-2,500* |
| 7 | 12 | 1,900-2,400* |

notes: *readings collected using ludlum 176944