

#### CITY OF PITTSBURGH

#### DEPARTMENT OF MOBILITY & INFRASTRUCTURE

CITY-COUNTY BUILDING

### Application for an Encroachment on City Dedicated Right-Of-Way

| Date:June 5 2024  |
|---|
| Applicant Name: Carnegie Mellon University  |
| Property Owner's Name (if different from Applicant):  |
| Address: 4644 Forbes Avenue, Pittsburgh PA 15213  |
| Phone Number: _412-268-6824 Alternate Phone Number:   |
| Location of Proposed Encroachment: Forbes Avenue and Boundary Street  |
| Ward: 4th Council District: 8 Lot and Block: 52-N-59  |
| What is the properties zoning district code: EMI (zoning office 255-2241)   |
| Planning/Zoning Case OneStop Number (if applicable): ZDR2023-11179  |
| Is the existing right-of-way, a street or a sidewalk? _Enc #1:Street ; Enc #2:Street ; Enc #3: Street   |
| Width of Existing Right-of-Way (sidewalk or street): (Before encroachment) Enc #1: 50'; Enc #2: 50'; Enc #3: Varies   |
| Length of Existing Right-of-Way (sidewalk or street): (Before encroachment) Enc #1: 333.92'; Enc #2: 41.09'; Enc #3: 325.85'  |
| Width of Proposed Encroachment:Enc #1: 22.84'-29.79' ; Enc #2: 0.82' ; Enc #3: 7.45'-8.14'  |
| <b>Length of Proposed Encroachment:</b> Enc #1: 333.37'-333.92' ; Enc #2: 40.67'-41.09' ; Enc #3: 325.85'   |
| Number of feet the proposed object will encroach into the ROW: Enc #1: 22.84'-29.79'; Enc #2: 0.82'; Enc #3: 7.45'-8.14'  |
| Description of encroachment:  Enc#1: SOE walls, Nitrogen tank, remote filling station, & Pad, SWM vault, Storm manhole and cleanout Curb, water meter vault, retaining walls, ticket gate. Enc#2: Generator Pad, small portion of generator, Screening fence. Enc#3: Tree planters, road pull off, stone seating landscape features, corner bollards, |
| Reason for application:  Storm manholes and cleanout.   |

To simplify truck maneuvering and curb cuts as part of this development, CMU is working to achieve a permanent encroachment easement to for a portion of the City property along Boundary Street, that is the area between the CMU property line parallel to Boundary Street and the Boundary Street Right-of-Way, CMU also intends to install tree planters in the sidewalk ROW along Forbes avenue to match the tree planters of similar buildings along Forbes per their masterplan. A pedestrian easement to the City is anticipated to be required and accounted for during planning. Another area of encroachment proposed is a portion of the emergency generator pad along the east side of Boundary Street.

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### **APPLICATION CHECKLIST**

The following items are necessary in order to process any encroachment.

Applications missing documents remain in an incomplete status.

|         | Letter of request to the Director of Mobility and Infrastructure  |
|---------|---|
|         | <u>Property Owners'</u> Certificate of Insurance – listing the City of Pittsburgh as an additional insured in the amounts listed: Public Liability \$ 100,000.00 - \$ 300,000.00 Property Damage \$ 50,000.00 (must be the Property Owners Insurance) |
|         | Profile picture or drawing with dimensions/specs of the proposed structure to be placed on the site of the encroached property – <b>STAMPED WITH ZONING APPROVAL or OneStop ZDR#</b>  |
|         | Copy of a survey or plot plan of the property   |
|         | Documentation from all corresponding utility companies stating approval/easement/agreement  |
|         | Application Fee \$500 made payable to Treasurer City of Pittsburgh, if paying by check  |
|         | nce certificate - listing the City of Pittsburgh as an <u>additional insured</u> , maps, specs ,zoning<br>red drawings or ZDR #, utility approval documentation, application fee of \$500.00)   |
| For Off | fice Use:   |
| \$500.0 | O Application fee Received /Check #Received Plot Plan or Survey   |
| Receiv  | ed Required Insurance Received detailed map of proposed encroachment  |
| Receiv  | ed Utility Letters  |
| Receiv  | ed drawing or picture of completed project  |
| Receiv  | ed picture of proposed encroached property  |
| All tax | information in compliance delinquent  |



June 4, 2024

Ms. Kim Lucas
Director
Department of Mobility and Infrastructure
414 Grant Street
Pittsburgh, PA 15219

Re: ROW Encroachment Letter of Request CMU – Richard King Mellon Hall of Sciences 4400 Forbes Ave, Pittsburgh, PA 15213 Langan Project No.: 250169701

Dear Ms. Lucas:

Enclosed please find the following documents for the above-referenced project:

ROW Encroachment Letter of Request with the following attachments:

- o Completed Paper Application.
- o One copy of the legal description of the requested ROW encroachments.
- o One copy of the ROW encroachment exhibit.
- o One copy of partial utility approval letters.

Carnegie Mellon University (CMU) is developing approximately 2.9 acres within multiple parcels to be consolidated for an Interdisciplinary research and teaching facility with 4 levels of parking garage and 7 levels of institutional programming. The first floor will also include a lobby, restaurant amenities, and fine art gallery space. This proposed building will be approximately 345,000+/- GSF, and the surrounding site will include impervious pedestrian sidewalks and plaza, a service driveway, and landscaped areas. The development intends to use boundary street as the primary vehicle ingress and egress to the parking garage and loading dock.

To simplify truck maneuvering and curb cuts as part of this development, CMU is working to achieve a permanent encroachment easement to for a portion of the City property along Boundary Street, that is the area between the CMU property line parallel to Boundary Street and the Boundary Street Right-of-Way, CMU also intends to install tree planters in the sidewalk ROW along Forbes avenue to match the tree planters of similar buildings along Forbes per their masterplan. A pedestrian easement to the City is anticipated to be required and accounted for during planning. Another area of encroachment proposed is a portion of the emergency generator pad along the east side of Boundary Street. For more detailed information regarding

the areas of encroachment, please see the legal descriptions and ROW encroachment exhibit attached with this narrative.

As always, we look forward to working with you on this endeavor. Please contact me at (724) 514-5143 or egenoese@langan.com if you should have any questions or need any additional information.

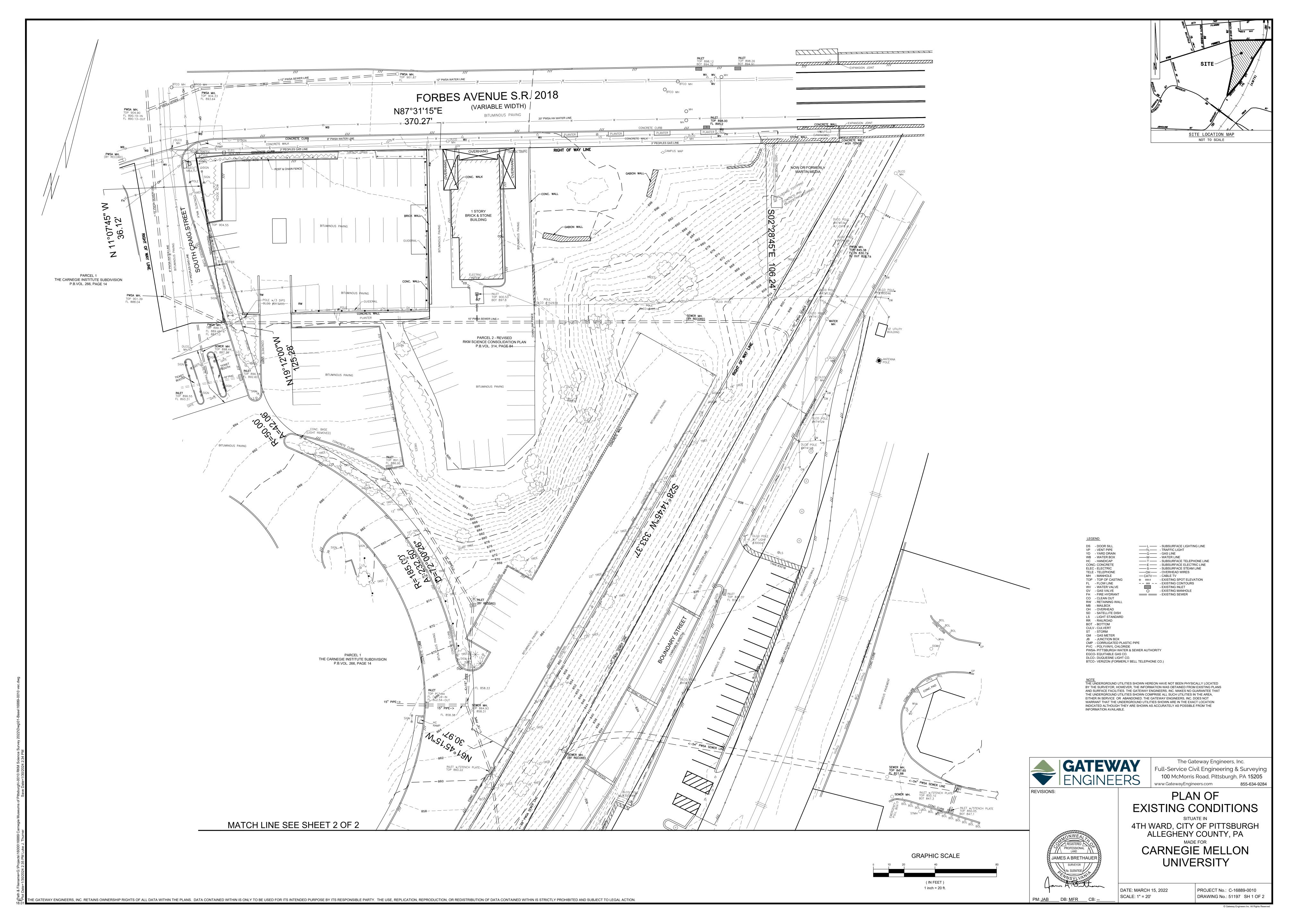
Sincerely,

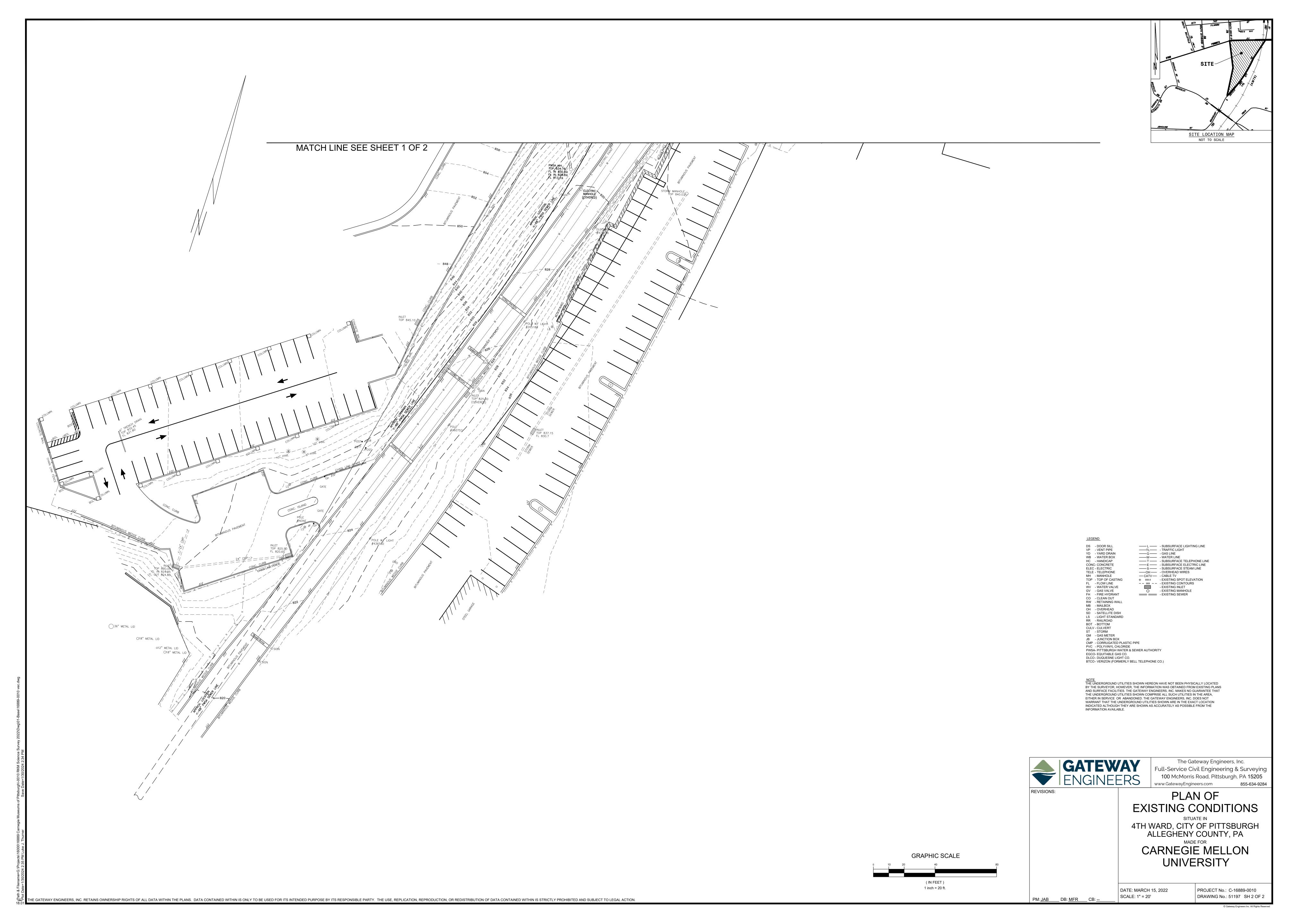
Langan Engineering and Environmental Services, LLC.

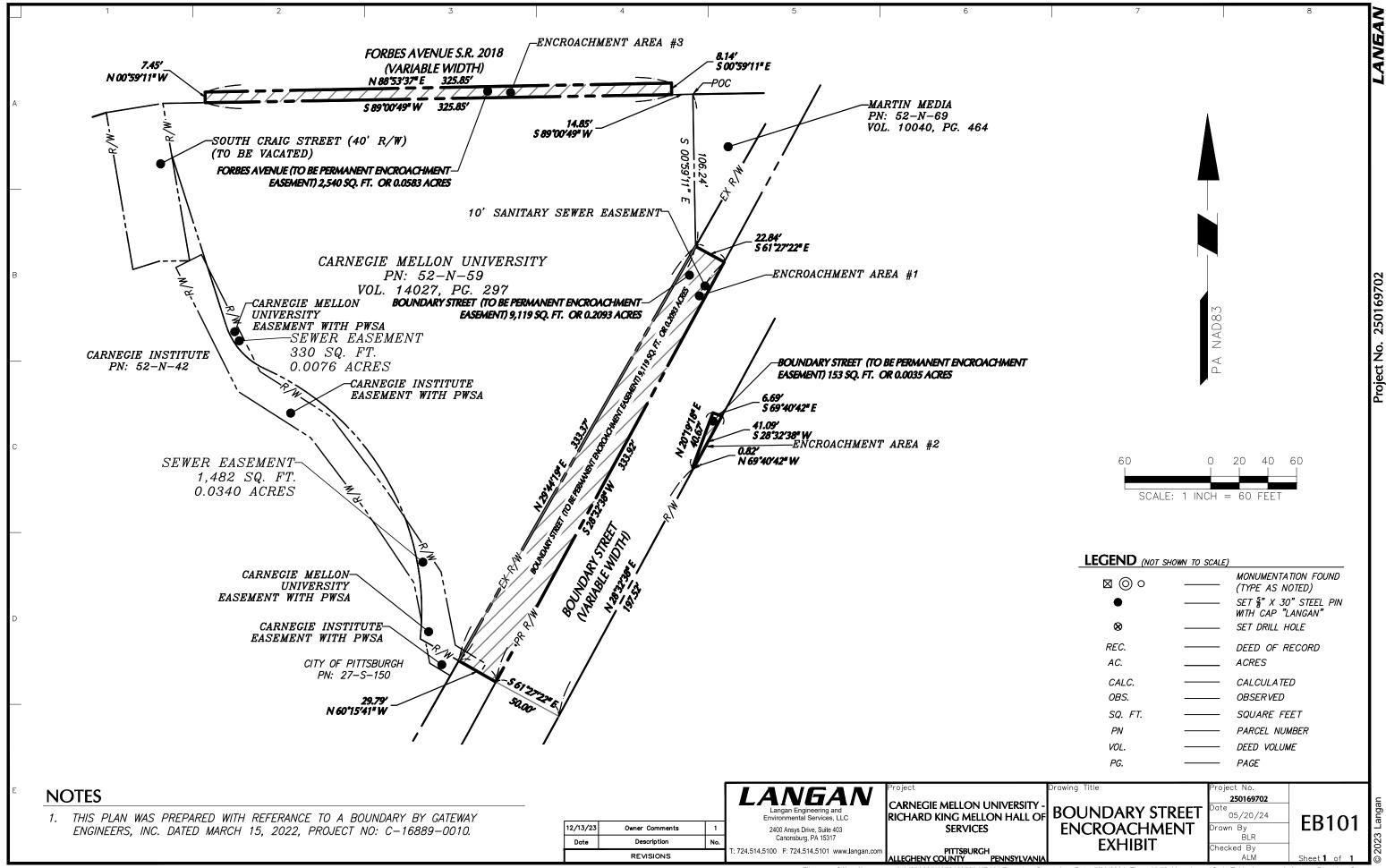
Erminio Genoese, P.E.

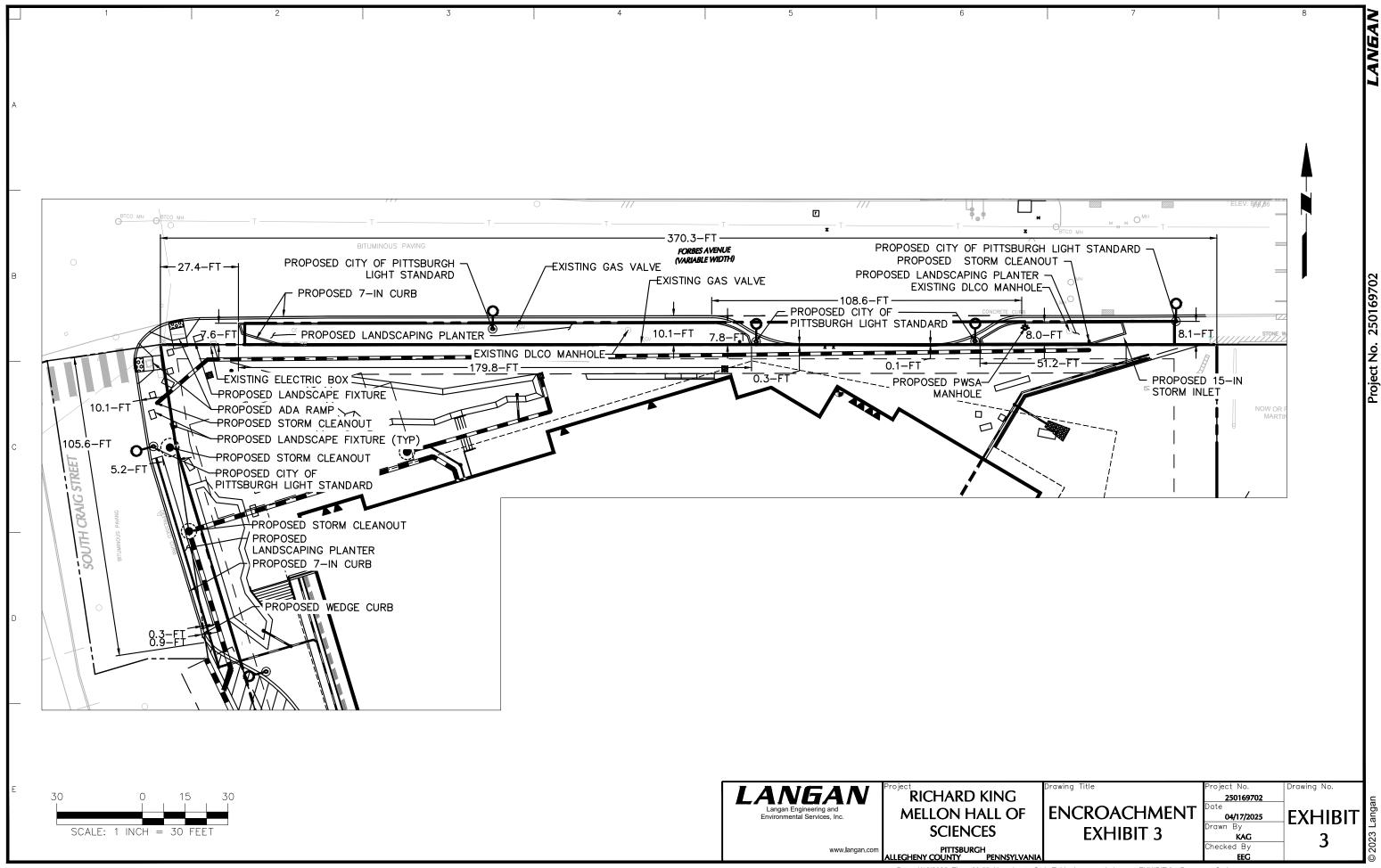
Project Engineer

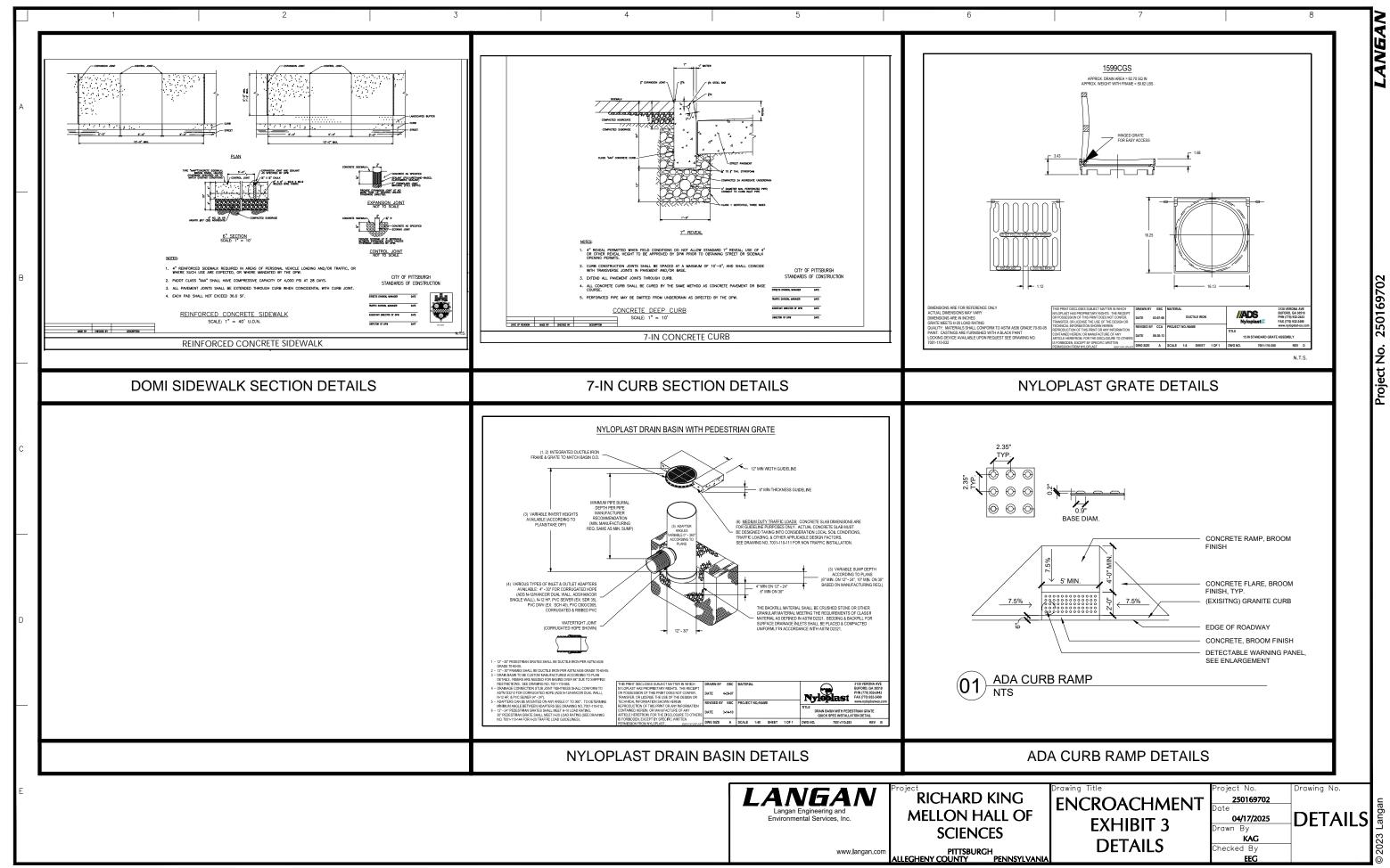
Evin Gra

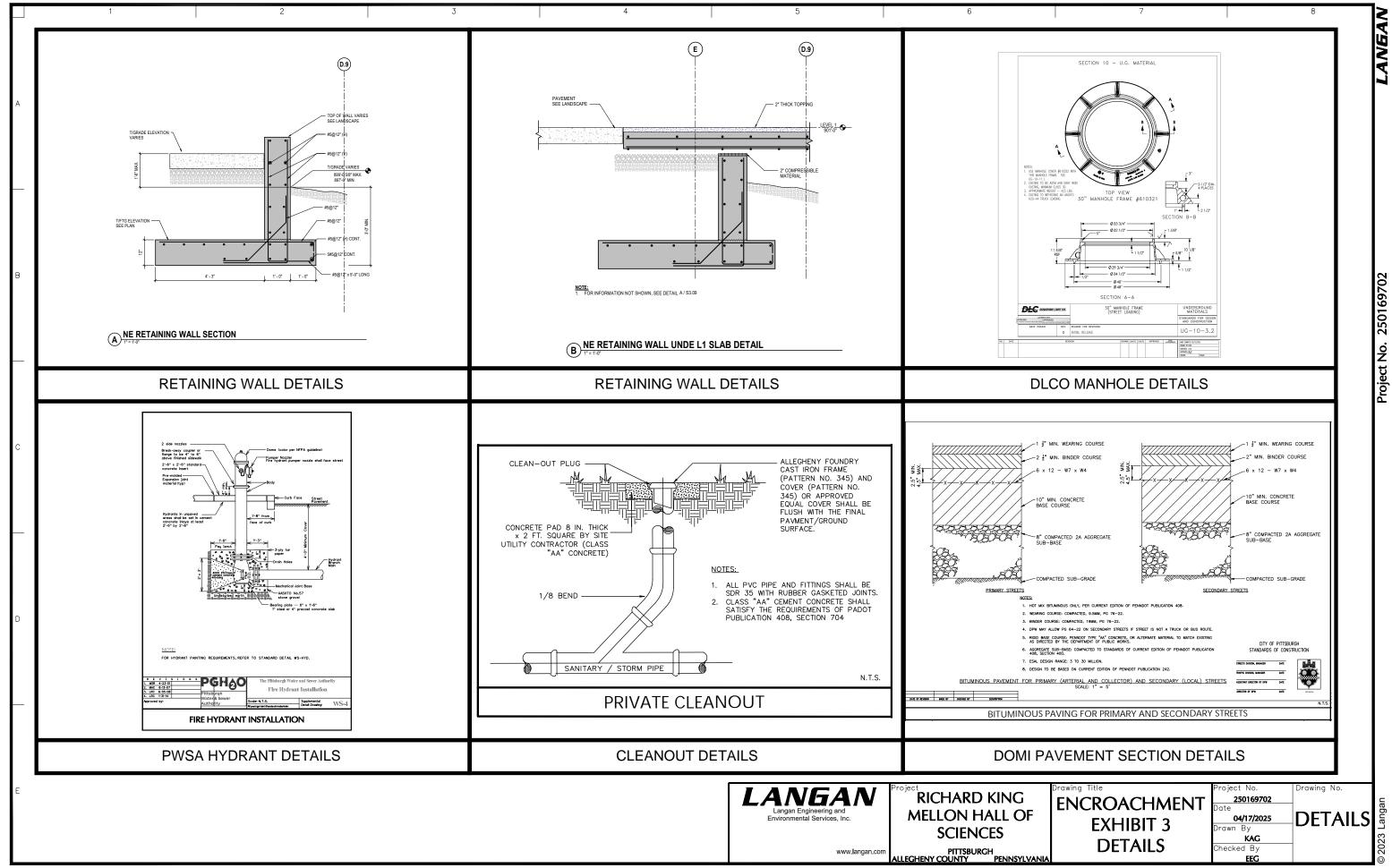


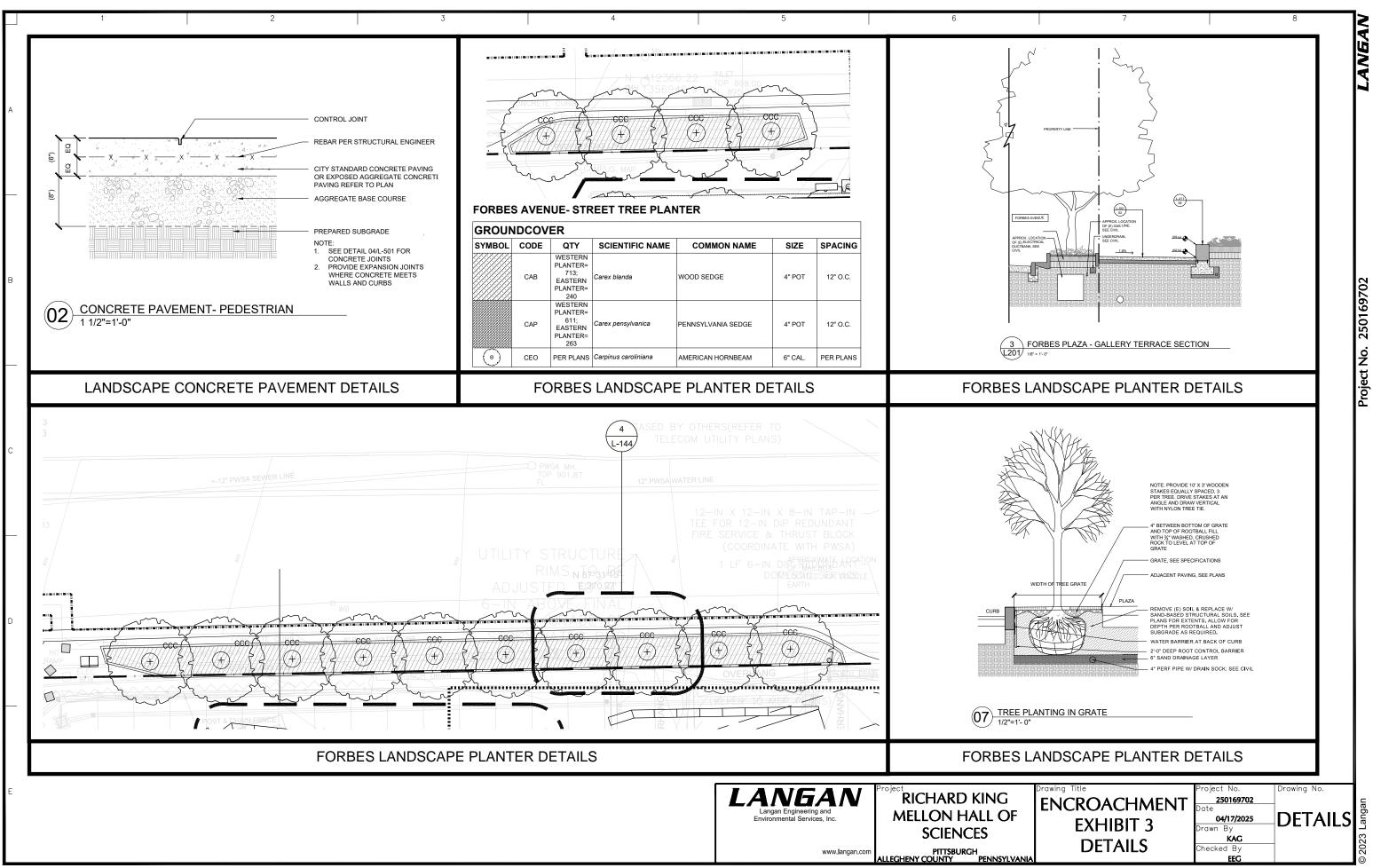


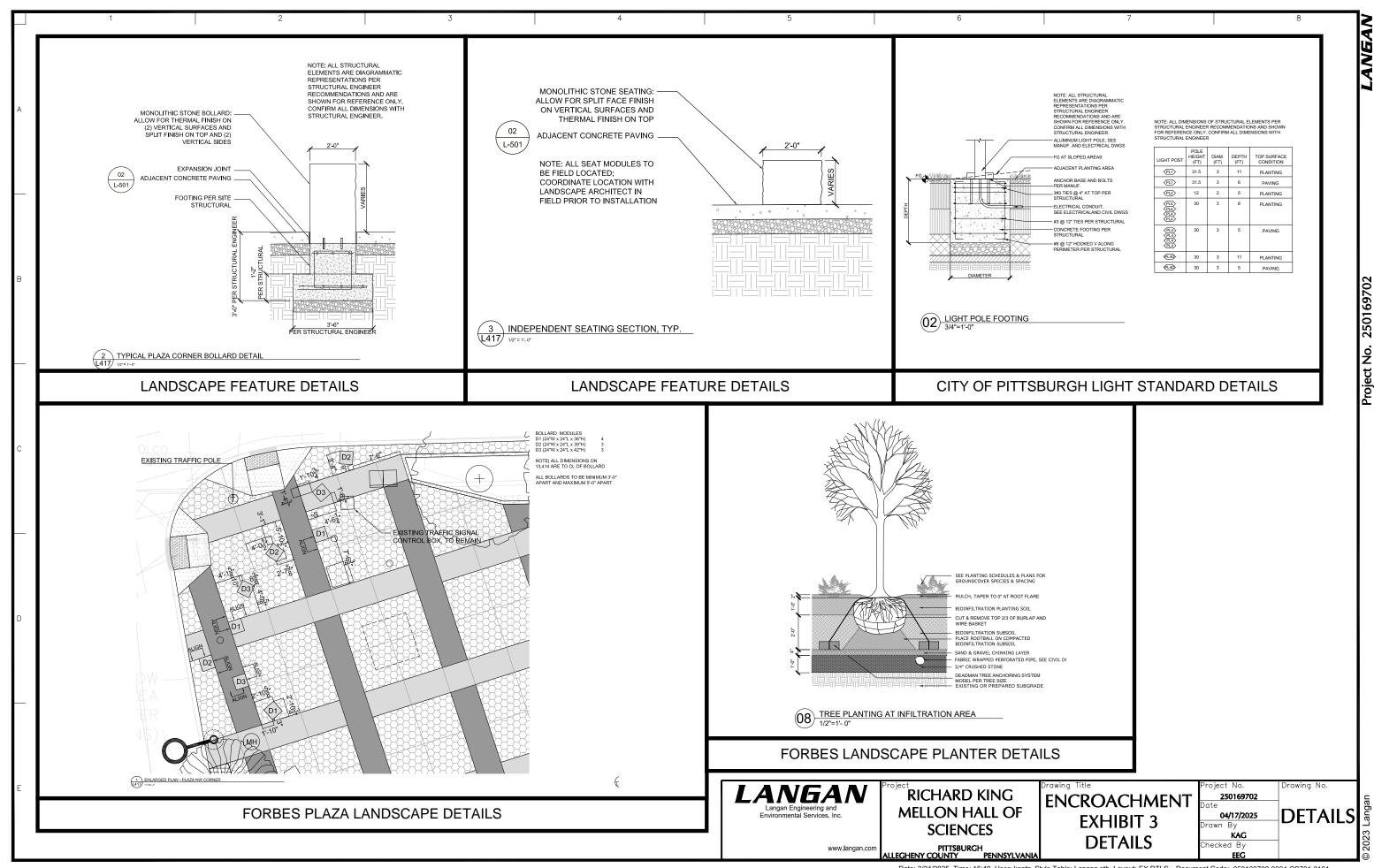


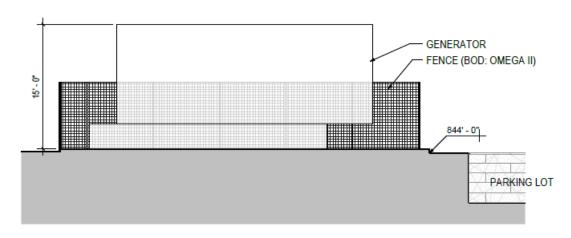






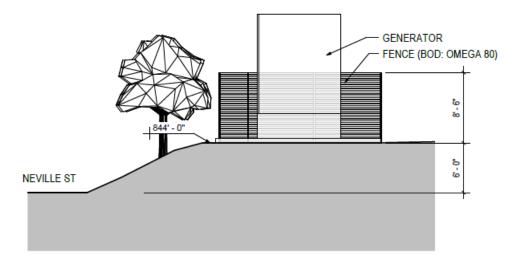






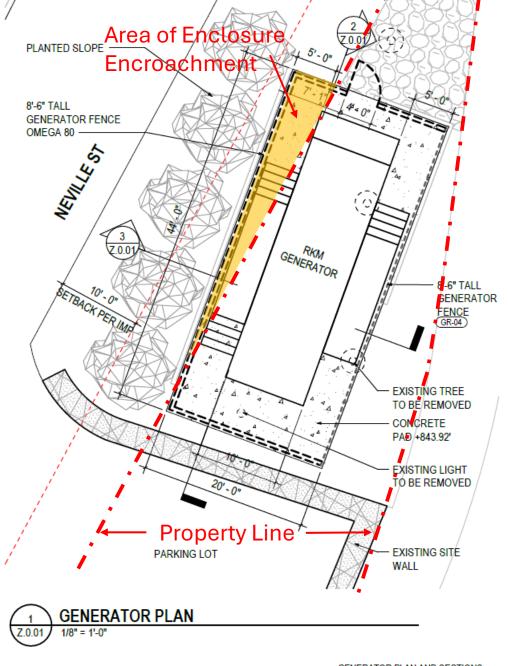
GENERATOR SECTION A

Z.0.01 / 1/8" = 1'-0

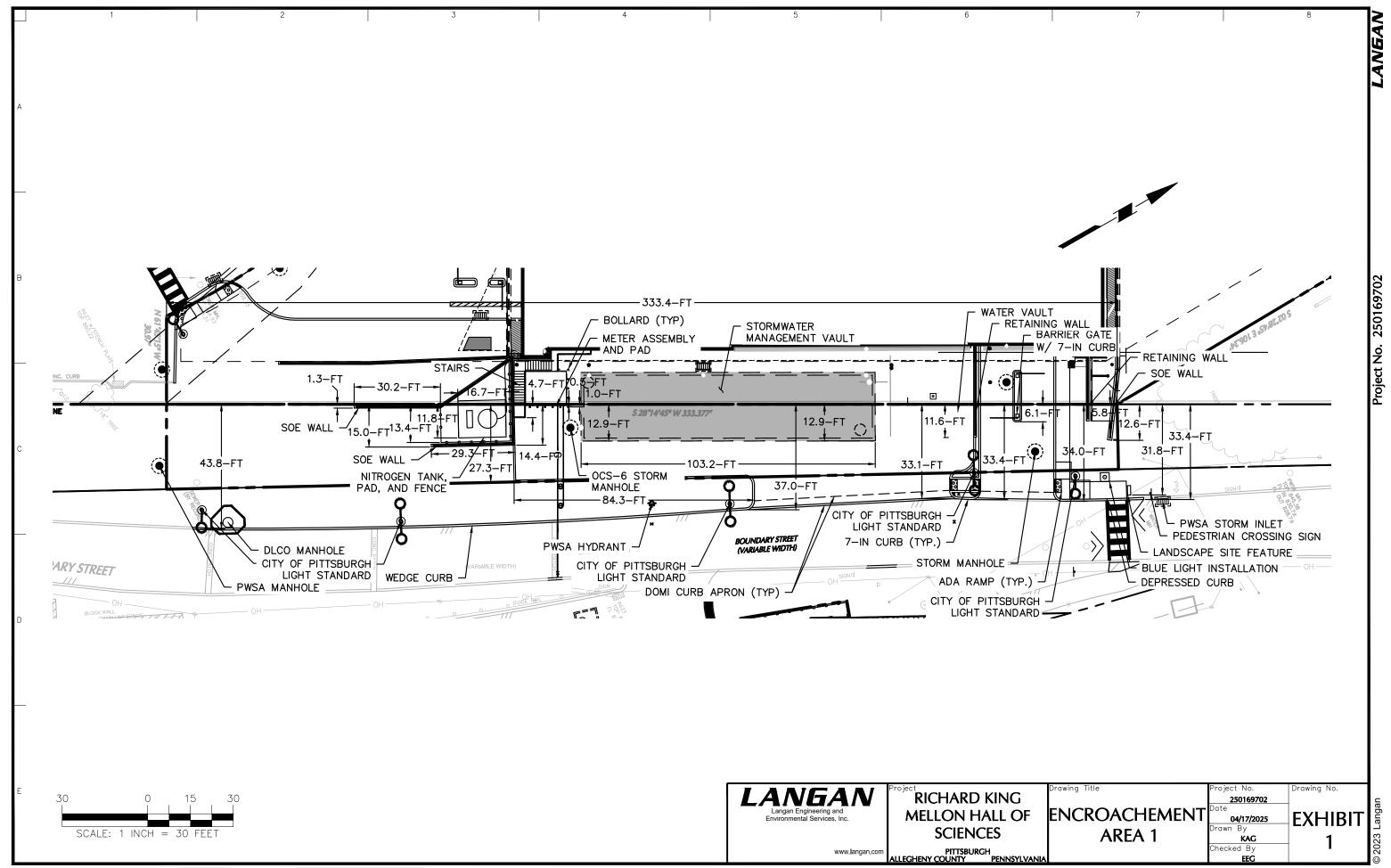


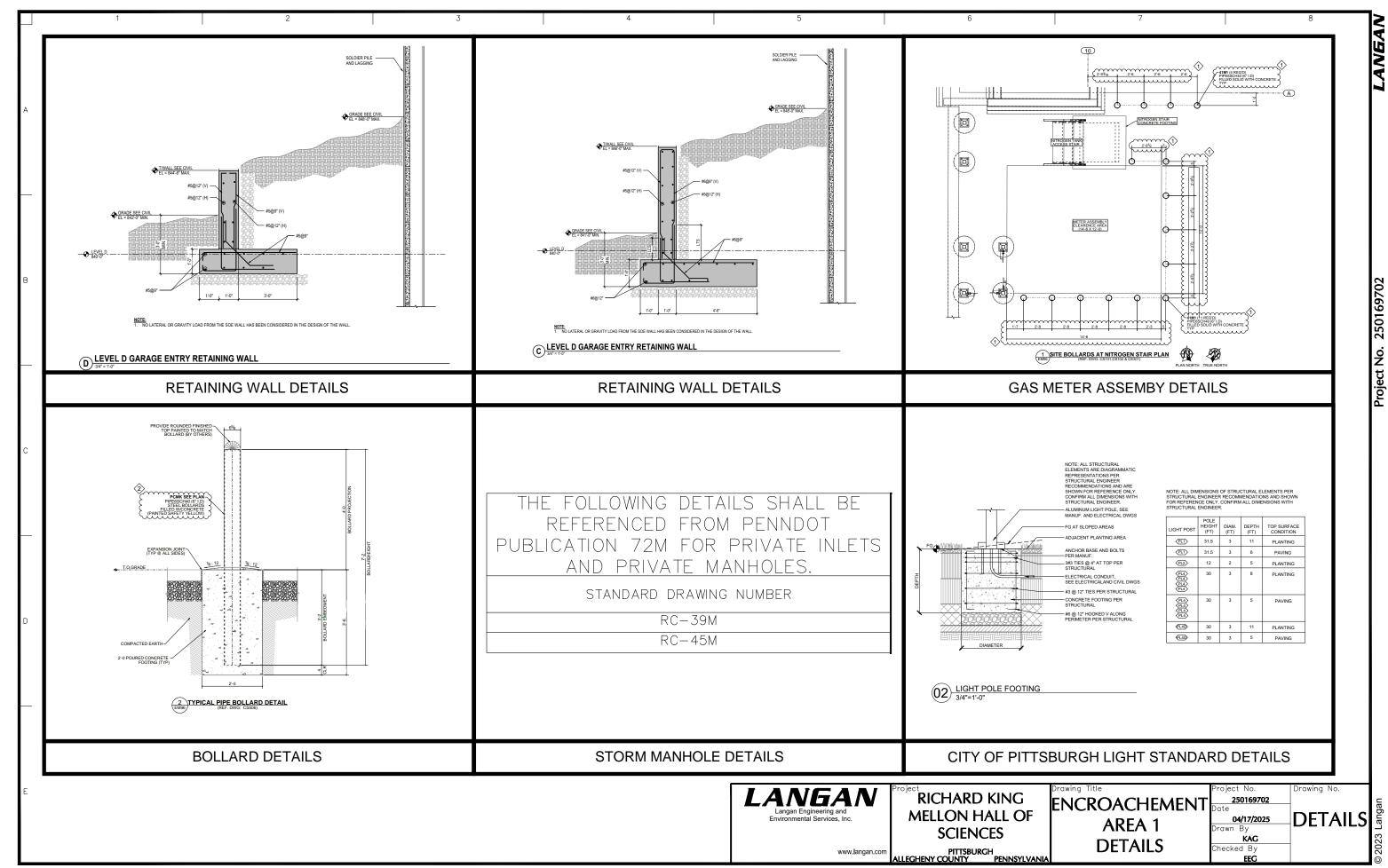
3 Z.0.01 1/8" = 1'-0"

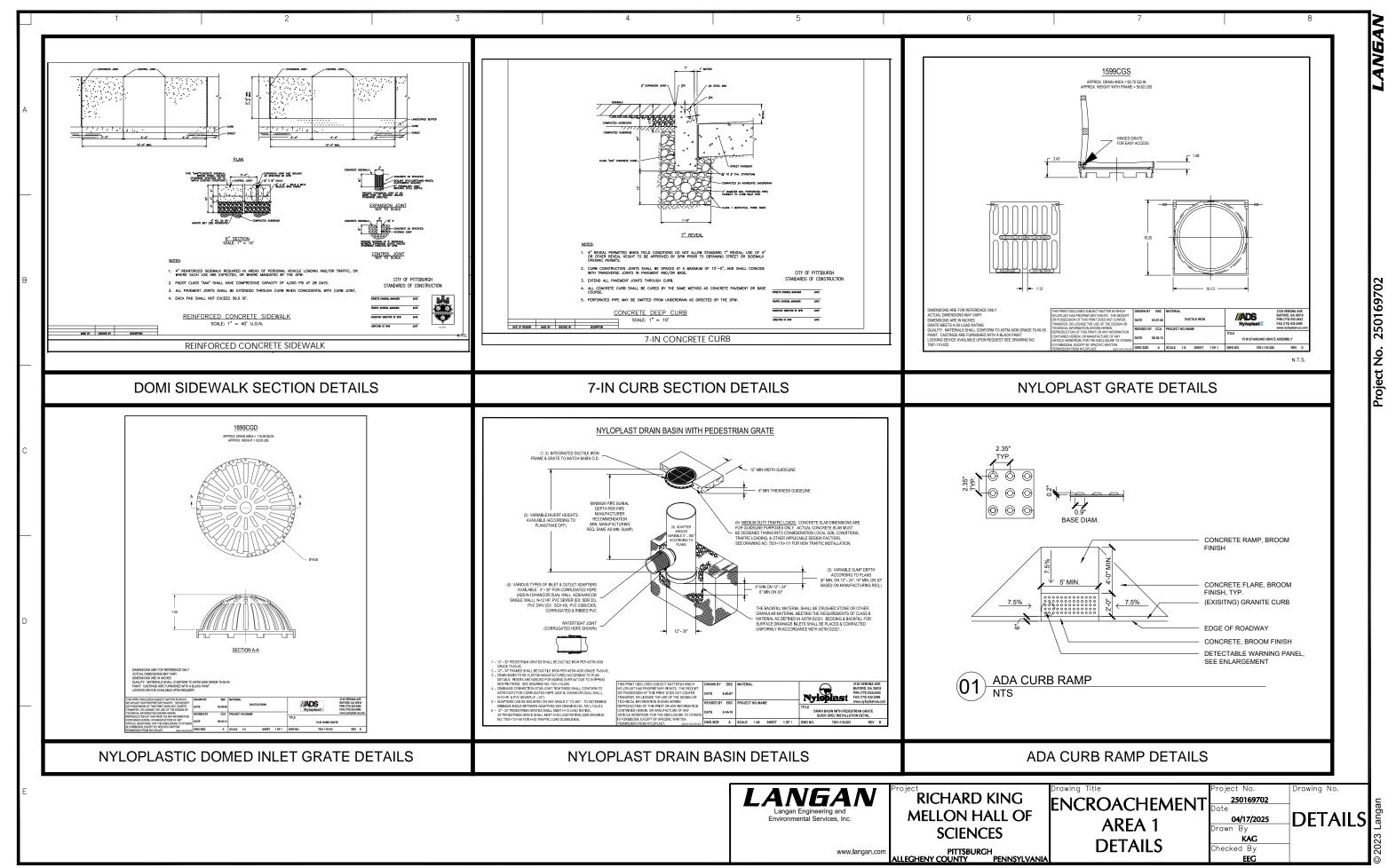


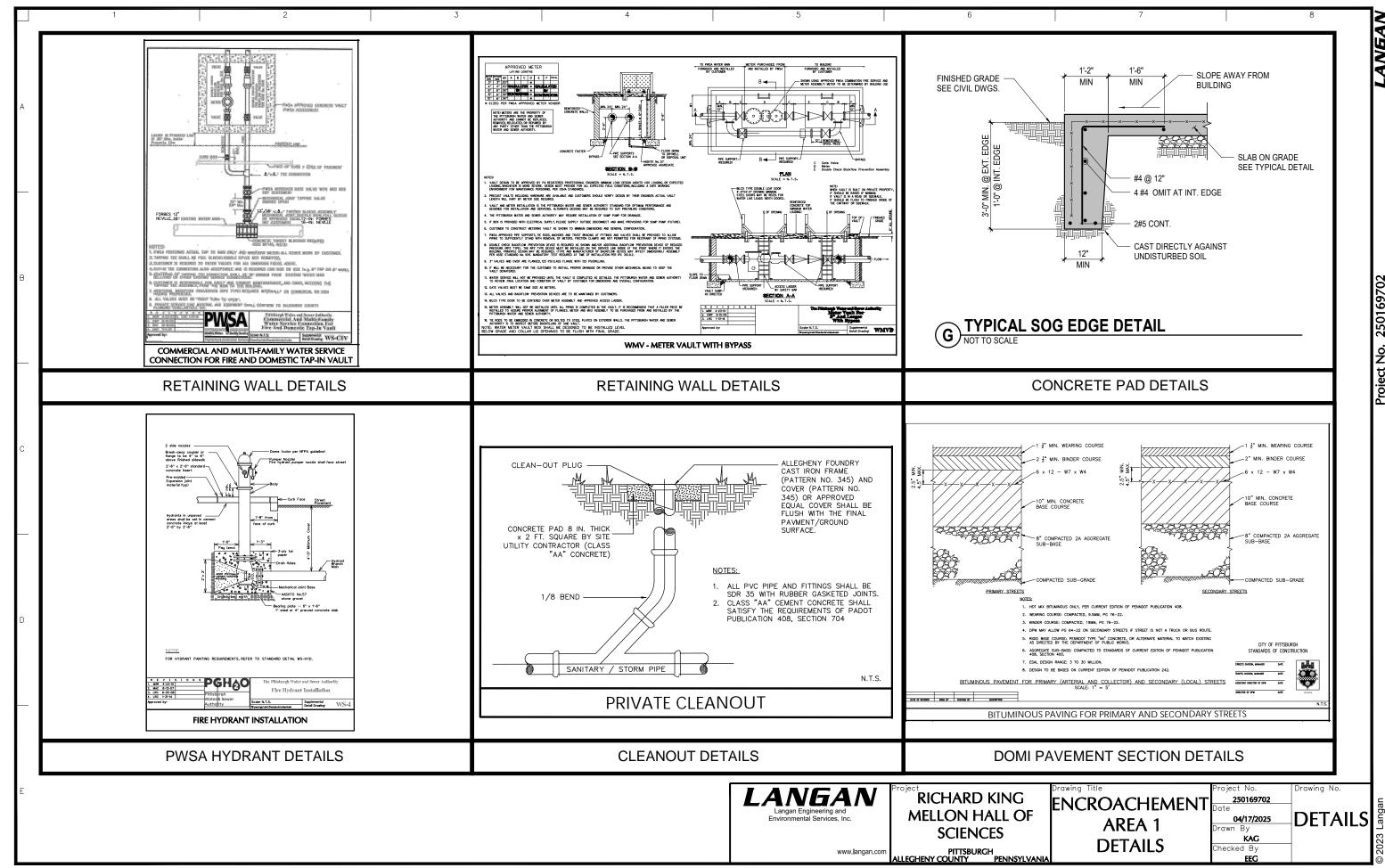


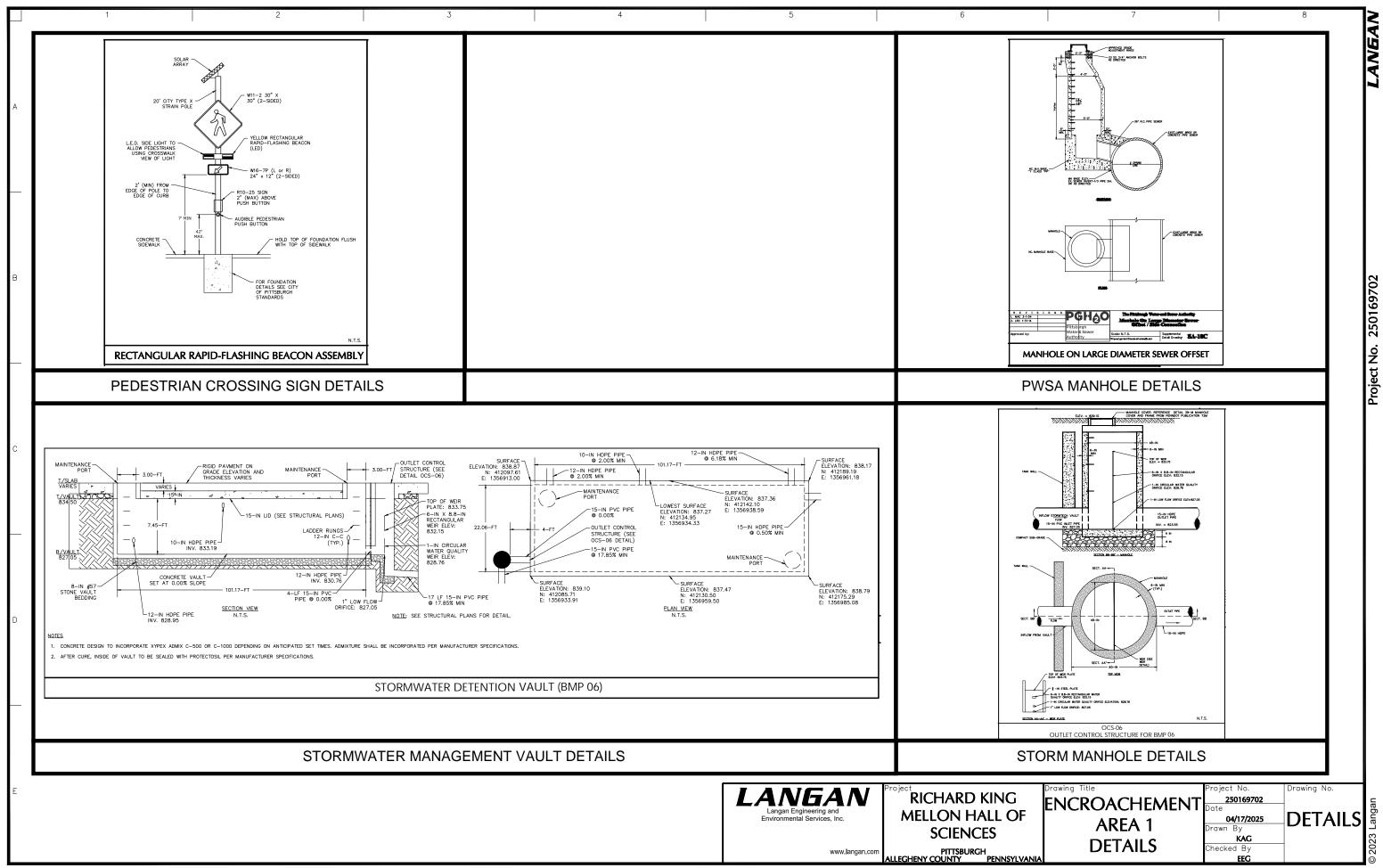
GENERATOR PLAN AND SECTIONS

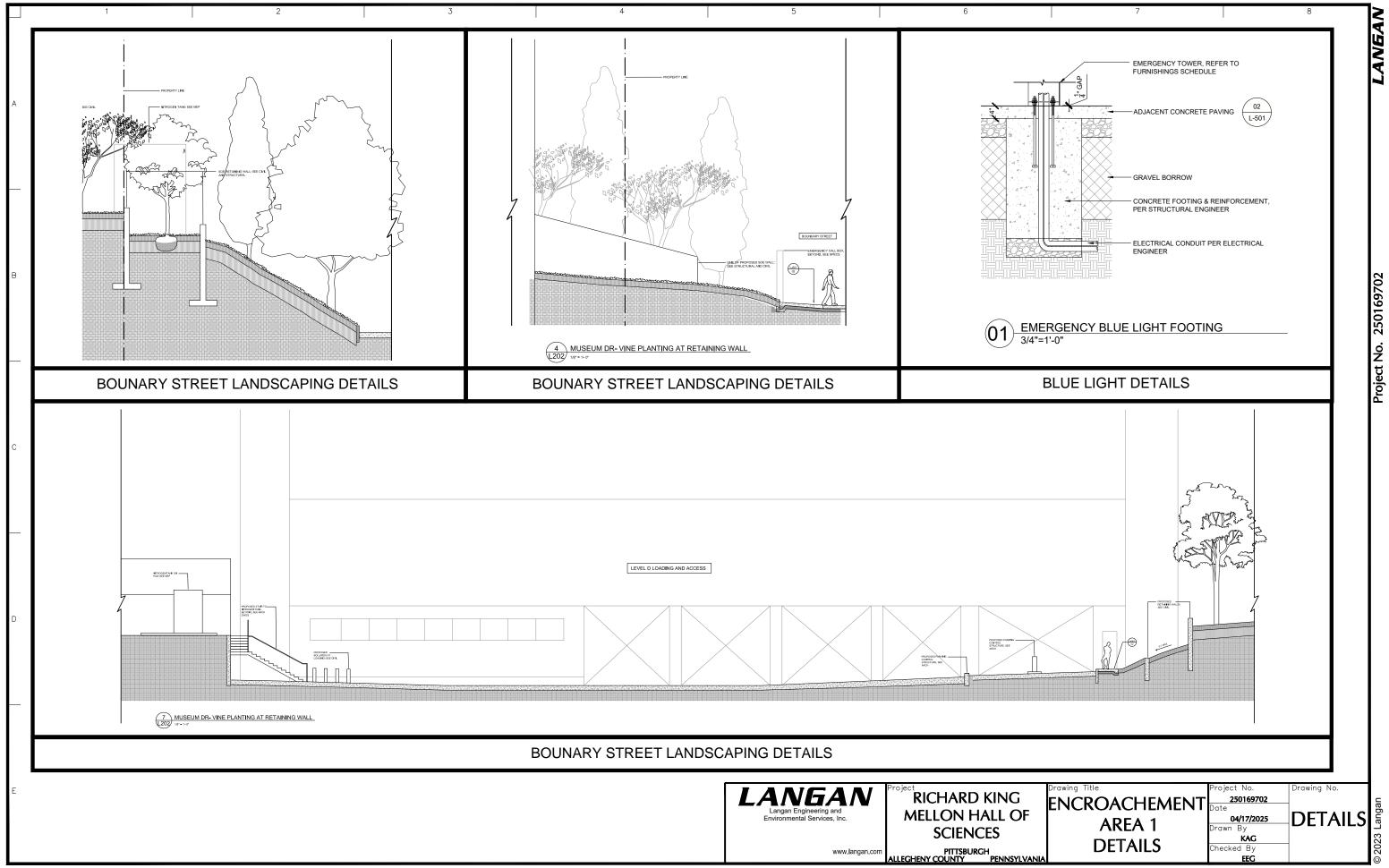


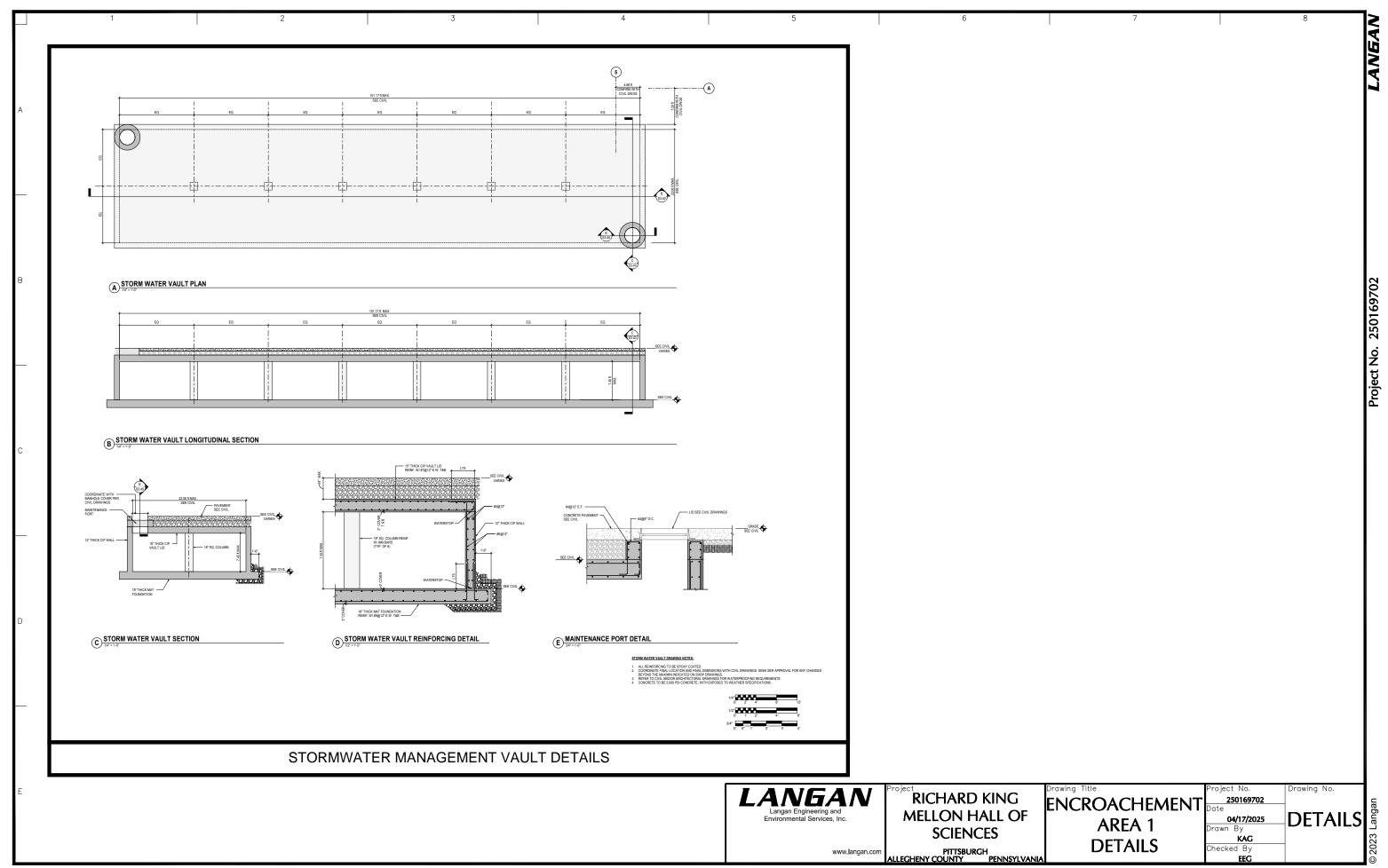


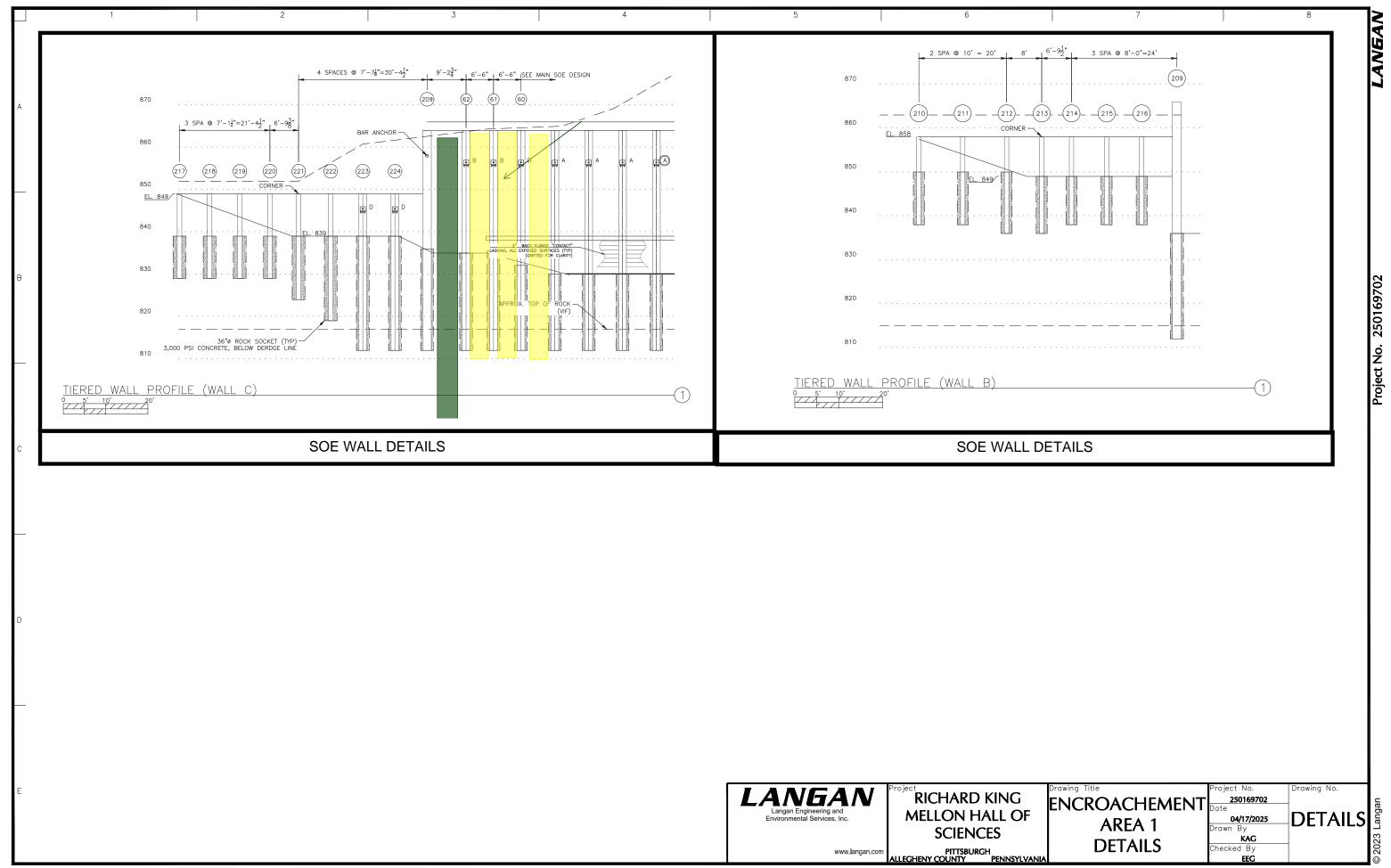


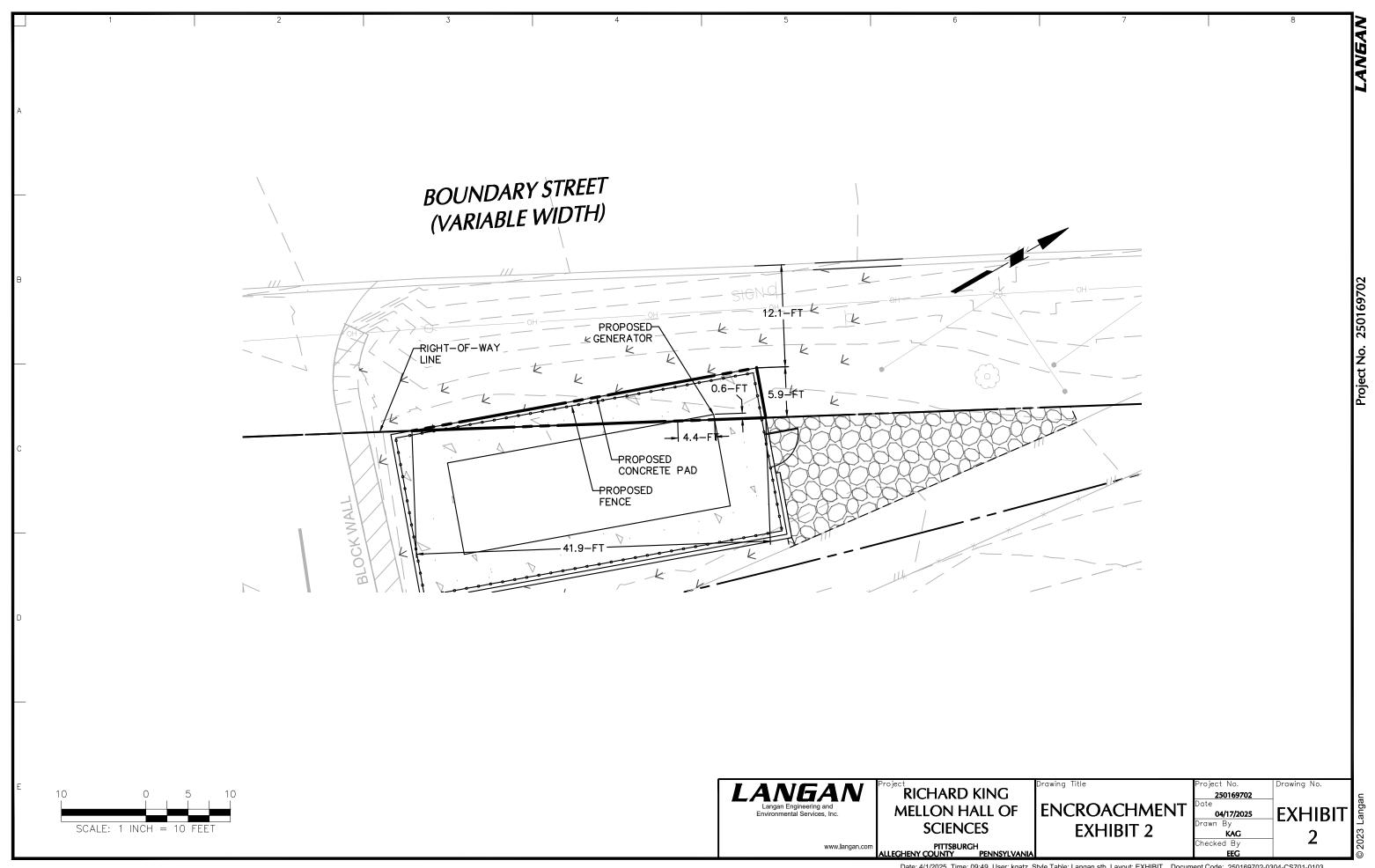


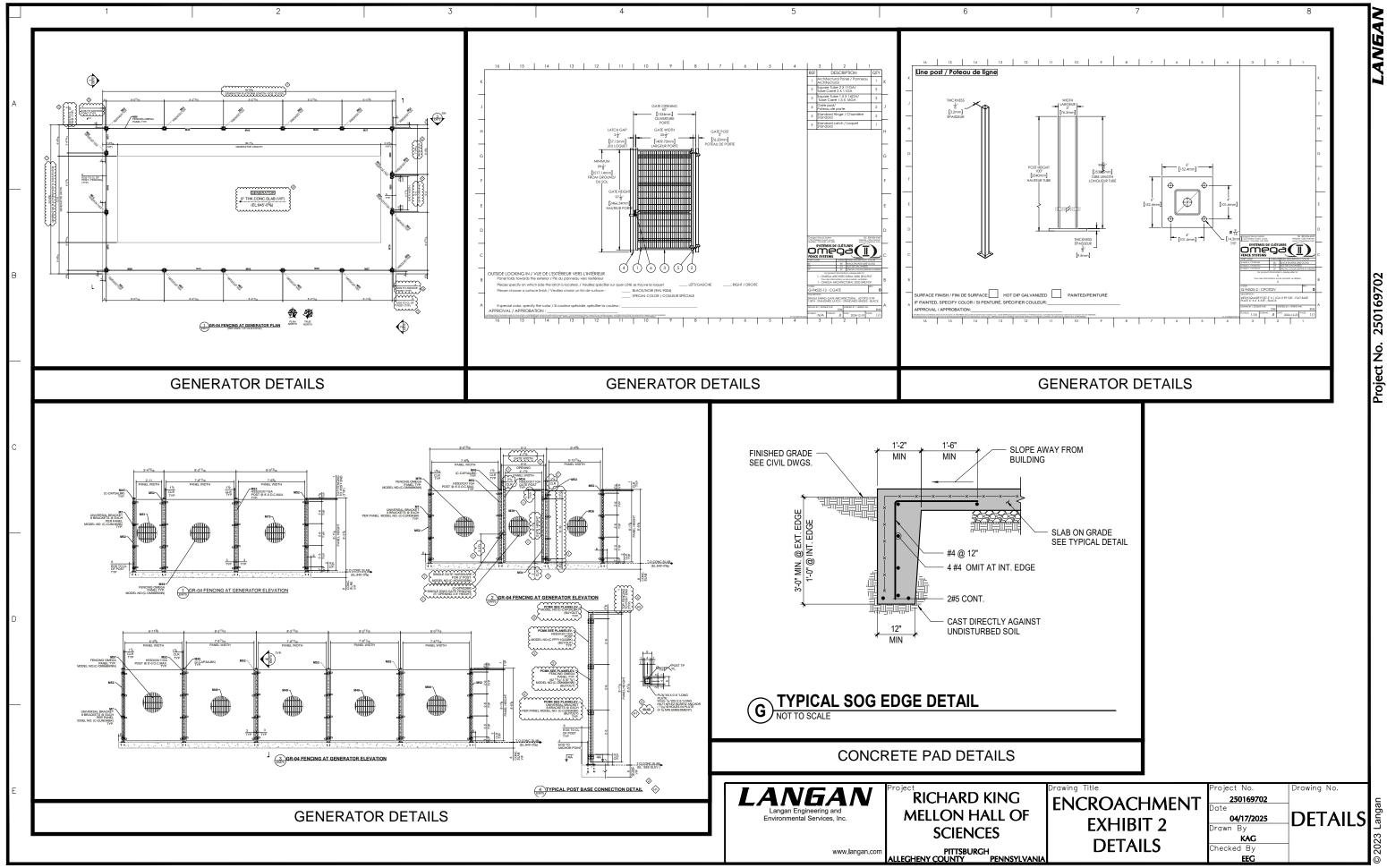


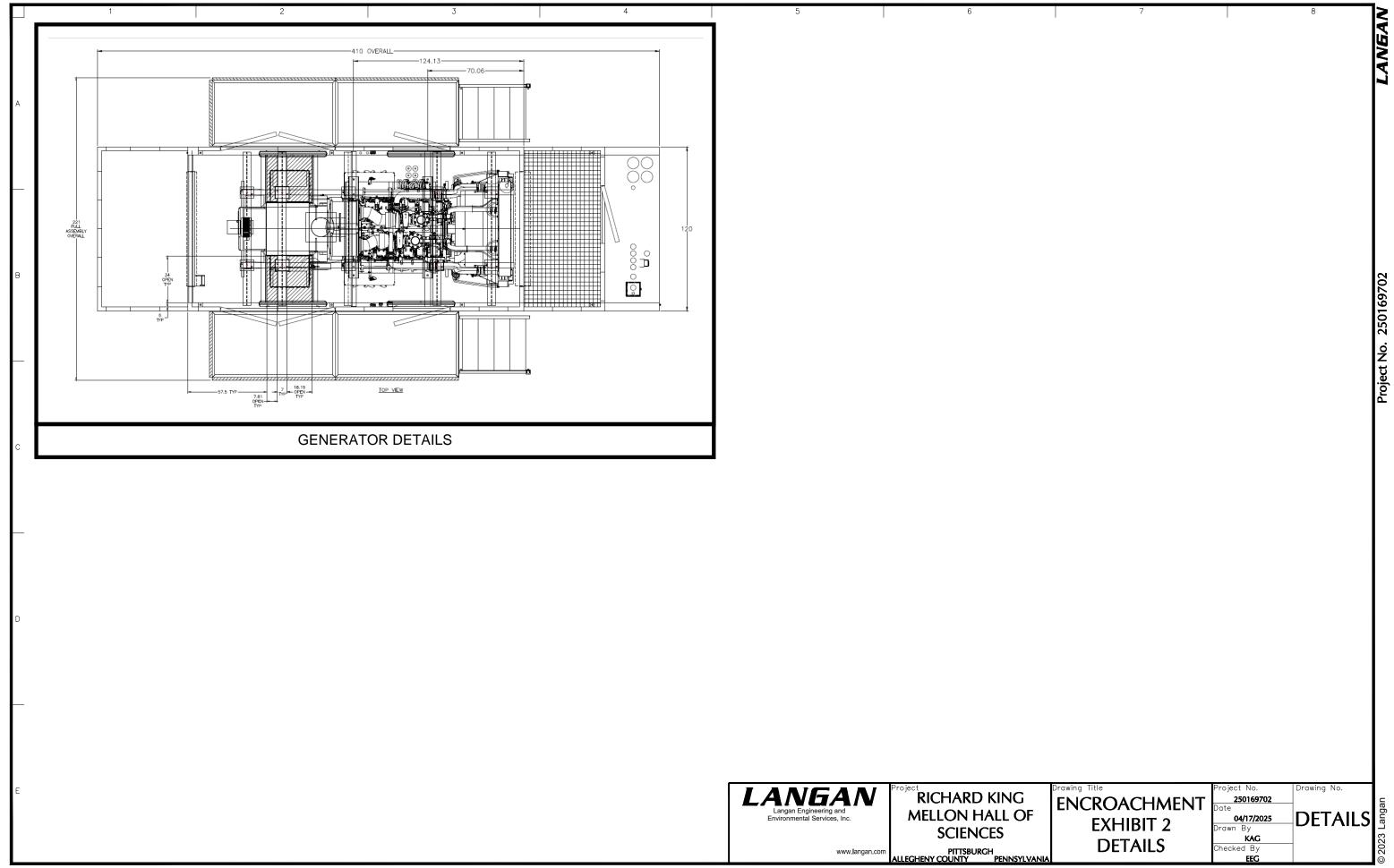


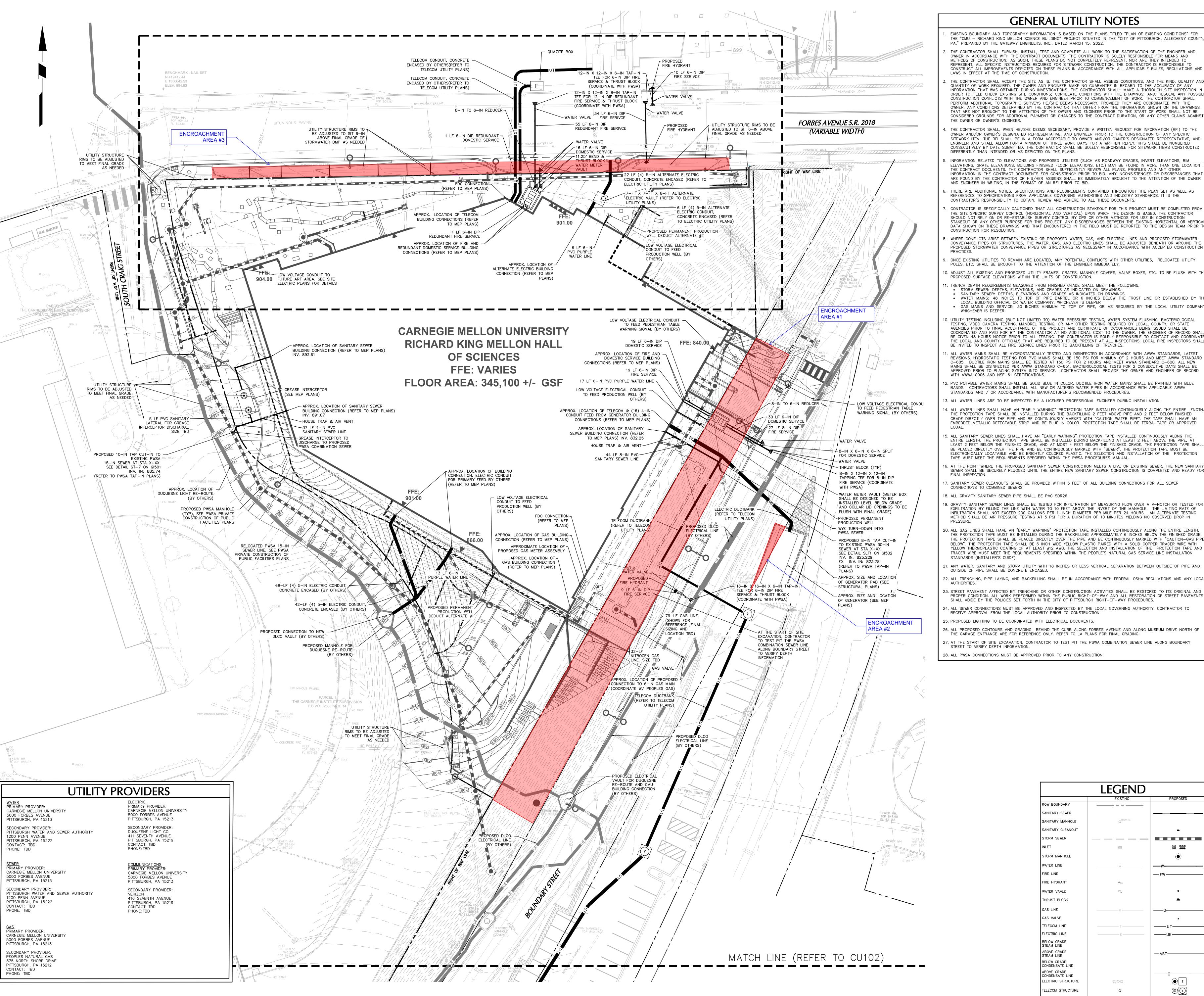












# **GENERAL UTILITY NOTES**

EXISTING BOUNDARY AND TOPOGRAPHY INFORMATION IS BASED ON THE PLANS TITLED "PLAN OF EXISTING CONDITIONS" FOR THE "CMU - RICHARD KING MELLON SCIENCE BUILDING" PROJECT SITUATED IN THE "CITY OF PITTSBURGH, ALLEGHENY COUNTY,

THE CONTRACTOR SHALL FURNISH, INSTALL, TEST AND COMPLETE ALL WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION; AS SUCH, THESE PLANS DO NOT COMPLETELY REPRESENT, NOR ARE THEY INTENDED TO REPRESENT, ALL SPECIFIC INSTRUCTIONS REQUIRED FOR SITEWORK CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS DEPICTED ON THESE PLANS IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS AND LAWS IN EFFECT AT THE TIME OF CONSTRUCTION.

THE CONTRACTOR SHALL ACCEPT THE SITE AS IS. THE CONTRACTOR SHALL ASSESS CONDITIONS, AND THE KIND, QUALITY AND QUANTITY OF WORK REQUIRED. THE OWNER AND ENGINEER MAKE NO GUARANTEE IN REGARD TO THE ACCURACY OF ANY INFORMATION THAT WAS OBTAINED DURING INVESTIGATIONS. THE CONTRACTOR SHALL: MAKE A THOROUGH SITE INSPECTION IN ORDER TO FIELD CHECK EXISTING SITE CONDITIONS; CORRELATE CONDITIONS WITH THE DRAWINGS; AND, RESOLVE ANY POSSIBLE CONSTRUCTION CONFLICTS WITH THE OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL PERFORM ADDITIONAL TOPOGRAPHIC SURVEYS HE/SHE DEEMS NECESSARY, PROVIDED THEY ARE COORDINATED WITH THE OWNER. ANY CONDITIONS DETERMINED BY THE CONTRACTOR THAT DIFFER FROM THE INFORMATION SHOWN ON THE DRAWINGS THAT ARE NOT BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER PRIOR TO THE START OF WORK SHALL NOT BE

THE CONTRACTOR SHALL, WHEN HE/SHE DEEMS NECESSARY, PROVIDE A WRITTEN REQUEST FOR INFORMATION (RFI) TO THE OWNER AND/OR OWNER'S DESIGNATED REPRESENTATIVE, AND ENGINEER PRIOR TO THE CONSTRUCTION OF ANY SPECIFIC SITEWORK ITEM. THE RFI SHALL BE IN A FORM ACCEPTABLE TO OWNER AND/OR OWNER'S DESIGNATED REPRESENTATIVE, AND ENGINEER AND SHALL ALLOW FOR A MINIMUM OF THREE WORK DAYS FOR A WRITTEN REPLY. RFIS SHALL BE NUMBERED CONSECUTIVELY BY DATE SUBMITTED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITEWORK ITEMS CONSTRUCTED

INFORMATION RELATED TO ELEVATIONS AND PROPOSED UTILITIES (SUCH AS ROADWAY GRADES, INVERT ELEVATIONS, RIM ELEVATIONS, GRATE ELEVATIONS, BUILDING FINISHED FLOOR ELEVATIONS, ETC.) MAY BE FOUND IN MORE THAN ONE LOCATION IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL SUFFICIENTLY REVIEW ALL PLANS, PROFILES AND ANY OTHER INFORMATION IN THE CONTRACT DOCUMENTS FOR CONSISTENCY PRIOR TO BID. ANY INCONSISTENCIES OR DISCREPANCIES THAT ARE FOUND BY THE CONTRACTOR OR HIS/HER ASSIGNS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IN WRITING, IN THE FORMAT OF AN RFI PRIOR TO BID.

THERE ARE ADDITIONAL NOTES, SPECIFICATIONS AND REQUIREMENTS CONTAINED THROUGHOUT THE PLAN SET AS WELL AS REFERENCES TO SPECIFICATIONS FROM APPLICABLE GOVERNING AUTHORITIES AND INDUSTRY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, REVIEW AND ADHERE TO ALL THESE DOCUMENTS.

CONTRACTOR IS SPECIFICALLY CAUTIONED THAT ALL CONSTRUCTION STAKEOUT FOR THIS PROJECT MUST BE COMPLETED FROM THE SITE SPECIFIC SURVEY CONTROL (HORIZONTAL AND VERTICAL) UPON WHICH THE DESIGN IS BASED. THE CONTRACTOR SHOULD NOT RELY ON OR RE-ESTABLISH SURVEY CONTROL BY GPS OR OTHER METHODS FOR USE IN CONSTRUCTION STAKEOUT OR ANY OTHER PURPOSE FOR THIS PROJECT. ANY DISCREPANCIES BETWEEN THE EXISTING HORIZONTAL OR VERTICA DATA SHOWN ON THESE DRAWINGS AND THAT ENCOUNTERED IN THE FIELD MUST BE REPORTED TO THE DESIGN TEAM PRIOR TO

WHERE CONFLICTS ARISE BETWEEN EXISTING OR PROPOSED WATER, GAS, AND ELECTRIC LINES AND PROPOSED STORMWATER CONVEYANCE PIPES OR STRUCTURES, THE WATER, GAS, AND ELECTRIC LINES SHALL BE ADJUSTED BENEATH OR AROUND THE PROPOSED STORMWATER CONVEYANCE PIPES OR STRUCTURES AS NECESSARY IN ACCORDANCE WITH ACCEPTED CONSTRUCTION

ONCE EXISTING UTILITIES TO REMAIN ARE LOCATED, ANY POTENTIAL CONFLICTS WITH OTHER UTILITIES, RELOCATED UTILITY POLES, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

D. ADJUST ALL EXISTING AND PROPOSED UTILITY FRAMES, GRATES, MANHOLE COVERS, VALVE BOXES, ETC. TO BE FLUSH WITH TH PROPOSED SURFACE ELEVATIONS WITHIN THE LIMITS OF CONSTRUCTION.

I. TRENCH DEPTH REQUIREMENTS MEASURED FROM FINISHED GRADE SHALL MEET THE FOLLOWING: STORM SEWER: DEPTHS, ELEVATIONS, AND GRADES AS INDICATED ON DRAWINGS.

 SANITARY SEWER: DEPTHS, ELEVATIONS AND GRADES AS INDICATED ON DRAWINGS. . WATER MAINS: 48 INCHES TO TOP OF PIPE BARREL OR 6 INCHES BELOW THE FROST LINE OR ESTABLISHED BY THE LOCAL BUILDING OFFICIAL OR WATER COMPANY, WHICHEVER IS DEEPER GAS MAINS AND SERVICE: 30 INCHES MINIMUM TO TOP OF PIPE, OR AS REQUIRED BY THE LOCAL UTILITY COMPANY

O. UTILITY TESTING INCLUDING (BUT NOT LIMITED TO) WATER PRESSURE TESTING, WATER SYSTEM FLUSHING, BACTERIOLOGICAL TESTING, VIDEO CAMERA TESTING, MANDREL TESTING, OR ANY OTHER TESTING REQUIRED BY LOCAL, COUNTY, OR STATE AGENCIES PRIOR TO FINAL ACCEPTANCE OF THE PROJECT AND CERTIFICATE OF OCCUPANCIES BEING ISSUED SHALL BE COORDINATED AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE ENGINEER OF RECORD SHAL BE GIVEN 48 HOURS NOTICE PRIOR TO ALL TESTING. THE CONTRACTOR IS SOLELY RESPONSIBLE TO CONTACT AND COORDINATE THE LOCAL AND COUNTY OFFICIALS THAT ARE REQUIRED TO BE PRESENT AT ALL INSPECTIONS. LOCAL FIRE INSPECTORS SHALL BE INVITED TO INSPECT ALL FIRE SERVICE LINES PRIOR TO BACKFILLING OF TRENCHES.

. ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARDS, LATEST REVISIONS. HYDROSTATIC TESTING FOR PVC MAINS SHALL BE 150 PSI FOR MINIMUM OF 2 HOURS AND MEET AWWA STANDARD C-605. DUCTILE IRON MAINS SHALL BE TESTED AT 150 PSI FOR 2 HOURS AND MEET AWWA STANDARD C-600. ALL NEW MAINS SHALL BE DISINFECTED PER AWWA STANDARD C-651. BACTERIOLOGICAL TESTS FOR 2 CONSECUTIVE DAYS SHALL BE APPROVED PRIOR TO PLACING SYSTEM INTO SERVICE. CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER OF RECORD

2. PVC POTABLE WATER MAINS SHALL BE SOLID BLUE IN COLOR. DUCTILE IRON WATER MAINS SHALL BE PAINTED WITH BLUE BANDS. CONTRACTORS SHALL INSTALL ALL NEW OR ALTERED WATER PIPES IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS AND / OR ACCORDANCE WITH MANUFACTURER'S RECOMMENDED PROCEDURES.

14. ALL WATER LINES SHALL HAVE AN "EARLY WARNING" PROTECTION TAPE INSTALLED CONTINUOUSLY ALONG THE ENTIRE LENGTH THE PROTECTION TAPE SHALL BE INSTALLED DURING THE BACKFILLING 2 FEET ABOVE PIPE AND 2 FEET BELOW FINISHED GRADE DIRECTLY OVER THE PIPE AND BE CONTINUOUSLY MARKED WITH "CAUTION WATER PIPE". THE TAPE SHALL HAVE AN EMBEDDED METALLIC DETECTABLE STRIP AND BE BLUE IN COLOR. PROTECTION TAPE SHALL BE TERRA-TAPE OR APPROVED

5. ALL SANITARY SEWER LINES SHALL HAVE AN "EARLY WARNING" PROTECTION TAPE INSTALLED CONTINUOUSLY ALONG THE ENTIRE LENGTH. THE PROTECTION TAPE SHALL BE INSTALLED DURING BACKFILLING AT LEAST 2 FEET ABOVE THE PIPE, AT LEAST 2 FEET BELOW THE FINISHED GRADE, AND AT MOST 4 FEET BELOW THE FINISHED GRADE. THE PROTECTION TAPE SHALL BE PLACED DIRECTLY OVER THE PIPE AND BE CONTINUOUSLY MARKED WITH "SEWER". THE PROTECTION TAPE MUST BE ELECTRONICALLY LOCATABLE AND BE BRIGHTLY COLORED PLASTIC. THE SELECTION AND INSTALLATION OF THE PROTECTION

TAPE MUST MEET THE REQUIREMENTS SPECIFIED WITHIN THE PWSA PROCEDURES MANUAL.

6. AT THE POINT WHERE THE PROPOSED SANITARY SEWER CONSTRUCTION MEETS A LIVE OR EXISTING SEWER, THE NEW SANITARY SEWER SHALL BE SECURELY PLUGGED UNTIL THE ENTIRE NEW SANITARY SEWER CONSTRUCTION IS COMPLETED AND READY FOR

7. SANITARY SEWER CLEANOUTS SHALL BE PROVIDED WITHIN 5 FEET OF ALL BUILDING CONNECTIONS FOR ALL SEWER CONNECTIONS TO COMBINED SEWERS.

18. ALL GRAVITY SANITARY SEWER PIPE SHALL BE PVC SDR26.

9. GRAVITY SANITARY SEWER LINES SHALL BE TESTED FOR INFILTRATION BY MEASURING FLOW OVER A V-NOTCH OR TESTED FOR EXFILTRATION BY FILLING THE LINE WITH WATER TO 10 FEET ABOVE THE INVERT OF THE MANHOLE. THE LIMITING RATE OF INFILTRATION SHALL NOT EXCEED 200 GALLONS PER 1-INCH DIAMETER PER MILE PER 24 HOURS. AN ALTERNATE TESTING METHOD SHALL BE AIR PRESSURE TESTING AT 5 PSI FOR A DURATION OF 10 MINUTES YIELDING NO OBSERVED DROP IN

20. ALL GAS LINES SHALL HAVE AN "EARLY WARNING" PROTECTION TAPE INSTALLED CONTINUOUSLY ALONG THE ENTIRE LENGTH. THE PROTECTION TAPE MUST BE INSTALLED DURING THE BACKFILLING APPROXIMATELY 6 INCHES BELOW THE FINISHED GRADE. THE PROTECTION TAPE SHALL BE PLACED DIRECTLY OVER THE PIPE AND BE CONTINUOUSLY MARKED WITH "CAUTION-GAS PIPE BELOW". THE PROTECTION TAPE SHALL BE 6 INCH WIDE YELLOW PLASTIC PAIRED WITH A SOLID COPPER TRACER WIRE WITH YELLOW THERMOPLASTIC COATING OF AT LEAST #12 AWG. THE SELECTION AND INSTALLATION OF THE PROTECTION TAPE AND TRACER WIRE MUST MEET THE REQUIREMENTS SPECIFIED WITHIN THE PEOPLE'S NATURAL GAS SERVICE LINE INSTALLATION

21. ANY WATER, SANITARY AND STORM UTILITY WITH 18 INCHES OR LESS VERTICAL SEPARATION BETWEEN OUTSIDE OF PIPE AND OUTSIDE OF PIPE SHALL BE CONCRETE ENCASED. 22. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS AND ANY LOCAL

3. STREET PAVEMENT AFFECTED BY TRENCHING OR OTHER CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ITS ORIGINAL AND PROPER CONDITION. ALL WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY AND ALL RESTORATION OF STREET PAVEMENTS SHALL ABIDE BY THE POLICIES SET FORTH IN THE CITY OF PITTSBURGH RIGHT-OF-WAY PROCEDURES.

24. ALL SEWER CONNECTIONS MUST BE APPROVED AND INSPECTED BY THE LOCAL GOVERNING AUTHORITY. CONTRACTOR TO RECEIVE APPROVAL FROM THE LOCAL AUTHORITY PRIOR TO CONSTRUCTION. 25. PROPOSED LIGHTING TO BE COORDINATED WITH ELECTRICAL DOCUMENTS.

THE GARAGE ENTRANCE ARE FOR REFERENCE ONLY. REFER TO LA PLANS FOR FINAL GRADING. 27. AT THE START OF SITE EXCAVATION, CONTRACTOR TO TEST PIT THE PSWA COMBINATION SEWER LINE ALONG BOUNDARY STREET TO VERIFY DEPTH INFORMATION.

28. ALL PWSA CONNECTIONS MUST BE APPROVED PRIOR TO ANY CONSTRUCTION.

**LEGEND** ROW BOUNDARY \_\_\_\_\_ SANITARY SEWER SANITARY MANHOLE SANITARY CLEANOUT STORM SEWER STORM MANHOLE WATER LINE FIRE LINE - FW -----FIRE HYDRANT WATER VAVLE THRUST BLOCK GAS LINE GAS VALVE TELECOM LINE —uт— ELECTRIC LINE BELOW GRADE STEAM LINE ABOVE GRADE STEAM LINE —AST—— BELOW GRADE CONDENSATE LINE ABOVE GRADE CONDENSATE LINE ELECTRIC STRUCTURE DLCOO TELECOM STRUCTURE

FOR BID ONLY, NOT FOR CONSTRUCTION

ZIMMER GUNSUL FRASCA ARCHITECTS LL

SEATTLE LOS ANGELES **WASHINGTON DC** NEW YORK

VANCOUVER BC 600 14th Street NW Suite 800 Washington, DC 20005

www.zgf.com Consultants

T 202 380 3120

ARCHITECT R3A ARCHITECTURE 48 S. 14TH STREET

PITTSBURGH, PA 15203 T 412-431-2480

LANDSCAPE STOSS LANDSCAPE URBANISM

54 OLD COLONY AVE., THIRD FL BOSTON, MA 02127

T 617-464-1140 STRUCTURAL

A+F ENGINEERS 1112 16TH ST. NW UNIT 920 WASHINGTON, DC 20036 T 202-628-1600

MEP ENGINEER

LAB PLANNING

LIFE SAFETY

AFFILIATED ENGINEERS, INC 10 S. LA SALLE ST., SUITE 2700 CHICAGO, IL 60603 T 312-977-2800

RESEARCH FACILITIES DESIGN 555 FAYETTEVILLE ST., SUITE 300 RALEIGH, NC 27601 T 919-213-7007 FIRE PROTECTION ENGINEER

WFT ENGINEERING 1801 RESEARCH BLVD., SUITE 100 ROCKVILLE, MD 20850 T 301-230-0811

**CIVIL ENGINEER** LANGAN ENGINEERING 2400 ANSYS DR., SUITE 403 CANONSBURG, PA 15317 T 724-514-5143

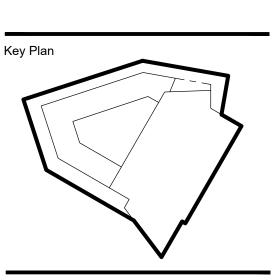
CODE CONSULTANTS, INC. 2043 WOODLAND PKWY, SUITE 300 ST. LOUIS, MO 63146 T 314-991-2633

ISSUED FOR: 50% CONSTRUCTION 2024.02.09 DOCUMENTS ISSUE FOR BID 2024.05.03 DOCUMENTS

CARNEGIE MELLON UNIVERSITY- RICHARD KING MELLON HALL OF SCIENCES

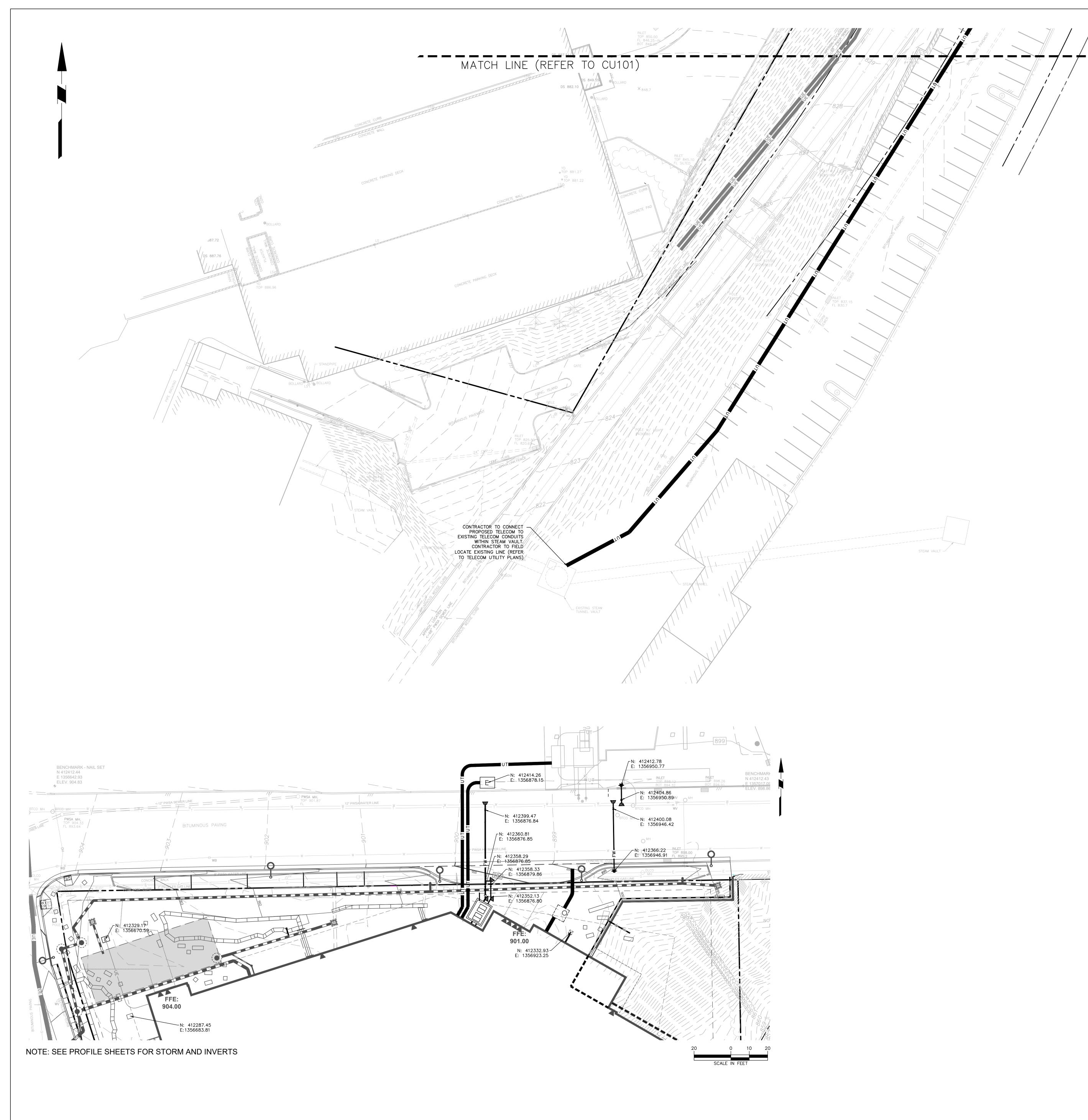
4644 FORBES AVE PITTSBURGH, PA 15213

UTILITY PLAN



2024.05.03 Checked By:

Drawing No.



# GENERAL UTILITY NOTES

- EXISTING BOUNDARY AND TOPOGRAPHY INFORMATION IS BASED ON THE PLANS TITLED "PLAN OF EXISTING CONDITIONS" FOR THE "CMU RICHARD KING MELLON SCIENCE BUILDING" PROJECT SITUATED IN THE "CITY OF PITTSBURGH, ALLEGHENY COUNTY,
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PA," PREPARED BY THE GATEWAY ENGINEERS, INC., DATED MARCH 15, 2022.

THE OWNER OR OWNER'S ENGINEER.

3. THE CONTRACTOR SHALL ACCEPT THE SITE AS IS. THE CONTRACTOR SHALL ASSESS CONDITIONS, AND THE KIND, QUALITY AND QUANTITY OF WORK REQUIRED. THE OWNER AND ENGINEER MAKE NO GUARANTEE IN REGARD TO THE ACCURACY OF ANY INFORMATION THAT WAS OBTAINED DURING INVESTIGATIONS. THE CONTRACTOR SHALL: MAKE A THOROUGH SITE INSPECTION IN ORDER TO FIELD CHECK EXISTING SITE CONDITIONS; CORRELATE CONDITIONS WITH THE DRAWINGS; AND, RESOLVE ANY POSSIBLE CONSTRUCTION CONFLICTS WITH THE OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL PERFORM ADDITIONAL TOPOGRAPHIC SURVEYS HE/SHE DEEMS NECESSARY, PROVIDED THEY ARE COORDINATED WITH THE OWNER. ANY CONDITIONS DETERMINED BY THE CONTRACTOR THAT DIFFER FROM THE INFORMATION SHOWN ON THE DRAWINGS THAT ARE NOT BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER PRIOR TO THE START OF WORK SHALL NOT BE CONSIDERED GROUNDS FOR ADDITIONAL PAYMENT OR CHANGES TO THE CONTRACT DURATION, OR ANY OTHER CLAIMS AGAINST

THE CONTRACTOR SHALL, WHEN HE/SHE DEEMS NECESSARY, PROVIDE A WRITTEN REQUEST FOR INFORMATION (RFI) TO THE OWNER AND/OR OWNER'S DESIGNATED REPRESENTATIVE, AND ENGINEER PRIOR TO THE CONSTRUCTION OF ANY SPECIFIC SITEWORK ITEM. THE RFI SHALL BE IN A FORM ACCEPTABLE TO OWNER AND/OR OWNER'S DESIGNATED REPRESENTATIVE, AND ENGINEER AND SHALL ALLOW FOR A MINIMUM OF THREE WORK DAYS FOR A WRITTEN REPLY. RFIS SHALL BE NUMBERED CONSECUTIVELY BY DATE SUBMITTED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITEWORK ITEMS CONSTRUCTED DIFFERENTLY THAN INTENDED OR AS DEPICTED ON THE PLANS.

- 5. INFORMATION RELATED TO ELEVATIONS AND PROPOSED UTILITIES (SUCH AS ROADWAY GRADES, INVERT ELEVATIONS, RIM ELEVATIONS, GRATE ELEVATIONS, BUILDING FINISHED FLOOR ELEVATIONS, ETC.) MAY BE FOUND IN MORE THAN ONE LOCATION IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL SUFFICIENTLY REVIEW ALL PLANS, PROFILES AND ANY OTHER INFORMATION IN THE CONTRACT DOCUMENTS FOR CONSISTENCY PRIOR TO BID. ANY INCONSISTENCIES OR DISCREPANCIES THAT ARE FOUND BY THE CONTRACTOR OR HIS/HER ASSIGNS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IN WRITING, IN THE FORMAT OF AN RFI PRIOR TO BID.
- THERE ARE ADDITIONAL NOTES, SPECIFICATIONS AND REQUIREMENTS CONTAINED THROUGHOUT THE PLAN SET AS WELL AS REFERENCES TO SPECIFICATIONS FROM APPLICABLE GOVERNING AUTHORITIES AND INDUSTRY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, REVIEW AND ADHERE TO ALL THESE DOCUMENTS.
- 7. CONTRACTOR IS SPECIFICALLY CAUTIONED THAT ALL CONSTRUCTION STAKEOUT FOR THIS PROJECT MUST BE COMPLETED FROM THE SITE SPECIFIC SURVEY CONTROL (HORIZONTAL AND VERTICAL) UPON WHICH THE DESIGN IS BASED. THE CONTRACTOR SHOULD NOT RELY ON OR RE—ESTABLISH SURVEY CONTROL BY GPS OR OTHER METHODS FOR USE IN CONSTRUCTION STAKEOUT OR ANY OTHER PURPOSE FOR THIS PROJECT. ANY DISCREPANCIES BETWEEN THE EXISTING HORIZONTAL OR VERTICAL DATA SHOWN ON THESE DRAWINGS AND THAT ENCOUNTERED IN THE FIELD MUST BE REPORTED TO THE DESIGN TEAM PRIOR TO CONSTRUCTION FOR RESOLUTION.
- 8. WHERE CONFLICTS ARISE BETWEEN EXISTING OR PROPOSED WATER, GAS, AND ELECTRIC LINES AND PROPOSED STORMWATER CONVEYANCE PIPES OR STRUCTURES, THE WATER, GAS, AND ELECTRIC LINES SHALL BE ADJUSTED BENEATH OR AROUND THE PROPOSED STORMWATER CONVEYANCE PIPES OR STRUCTURES AS NECESSARY IN ACCORDANCE WITH ACCEPTED CONSTRUCTION
- 9. ONCE EXISTING UTILITIES TO REMAIN ARE LOCATED, ANY POTENTIAL CONFLICTS WITH OTHER UTILITIES, RELOCATED UTILITY POLES, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 10. ADJUST ALL EXISTING AND PROPOSED UTILITY FRAMES, GRATES, MANHOLE COVERS, VALVE BOXES, ETC. TO BE FLUSH WITH THE PROPOSED SURFACE ELEVATIONS WITHIN THE LIMITS OF CONSTRUCTION.

WATER MAINS: 48 INCHES TO TOP OF PIPE BARREL OR 6 INCHES BELOW THE FROST LINE OR ESTABLISHED BY THE

- 11. TRENCH DEPTH REQUIREMENTS MEASURED FROM FINISHED GRADE SHALL MEET THE FOLLOWING:

   STORM SEWER: DEPTHS, ELEVATIONS, AND GRADES AS INDICATED ON DRAWINGS.

   SANITARY SEWER: DEPTHS, ELEVATIONS AND GRADES AS INDICATED ON DRAWINGS.
- LOCAL BUILDING OFFICIAL OR WATER COMPANY, WHICHEVER IS DEEPER

   GAS MAINS AND SERVICE: 30 INCHES MINIMUM TO TOP OF PIPE, OR AS REQUIRED BY THE LOCAL UTILITY COMPANY, WHICHEVER IS DEEPER.

  10. UTILITY TESTING INCLUDING (BUT NOT LIMITED TO) WATER PRESSURE TESTING, WATER SYSTEM FLUSHING, BACTERIOLOGICAL
- 10. UTILITY TESTING INCLUDING (BUT NOT LIMITED TO) WATER PRESSURE TESTING, WATER SYSTEM FLUSHING, BACTERIOLOGICAL TESTING, VIDEO CAMERA TESTING, MANDREL TESTING, OR ANY OTHER TESTING REQUIRED BY LOCAL, COUNTY, OR STATE AGENCIES PRIOR TO FINAL ACCEPTANCE OF THE PROJECT AND CERTIFICATE OF OCCUPANCIES BEING ISSUED SHALL BE COORDINATED AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE ENGINEER OF RECORD SHALL BE GIVEN 48 HOURS NOTICE PRIOR TO ALL TESTING. THE CONTRACTOR IS SOLELY RESPONSIBLE TO CONTACT AND COORDINATE THE LOCAL AND COUNTY OFFICIALS THAT ARE REQUIRED TO BE PRESENT AT ALL INSPECTIONS. LOCAL FIRE INSPECTORS SHALL BE INVITED TO INSPECT ALL FIRE SERVICE LINES PRIOR TO BACKFILLING OF TRENCHES.
- 1. ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARDS, LATEST REVISIONS. HYDROSTATIC TESTING FOR PVC MAINS SHALL BE 150 PSI FOR MINIMUM OF 2 HOURS AND MEET AWWA STANDARD C-605. DUCTILE IRON MAINS SHALL BE TESTED AT 150 PSI FOR 2 HOURS AND MEET AWWA STANDARD C-600. ALL NEW MAINS SHALL BE DISINFECTED PER AWWA STANDARD C-651. BACTERIOLOGICAL TESTS FOR 2 CONSECUTIVE DAYS SHALL BE APPROVED PRIOR TO PLACING SYSTEM INTO SERVICE. CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER OF RECORD
- WITH AWWA C906 AND NSF-61 CERTIFICATIONS.

  12. PVC POTABLE WATER MAINS SHALL BE SOLID BLUE IN COLOR. DUCTILE IRON WATER MAINS SHALL BE PAINTED WITH BLUE BANDS. CONTRACTORS SHALL INSTALL ALL NEW OR ALTERED WATER PIPES IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS AND / OR ACCORDANCE WITH MANUFACTURER'S RECOMMENDED PROCEDURES.
- 13. ALL WATER LINES ARE TO BE INSPECTED BY A LICENSED PROFESSIONAL ENGINEER DURING INSTALLATION.
- 14. ALL WATER LINES SHALL HAVE AN "EARLY WARNING" PROTECTION TAPE INSTALLED CONTINUOUSLY ALONG THE ENTIRE LENGTH. THE PROTECTION TAPE SHALL BE INSTALLED DURING THE BACKFILLING 2 FEET ABOVE PIPE AND 2 FEET BELOW FINISHED GRADE DIRECTLY OVER THE PIPE AND BE CONTINUOUSLY MARKED WITH "CAUTION WATER PIPE". THE TAPE SHALL HAVE AN EMBEDDED METALLIC DETECTABLE STRIP AND BE BLUE IN COLOR. PROTECTION TAPE SHALL BE TERRA—TAPE OR APPROVED
- 15. ALL SANITARY SEWER LINES SHALL HAVE AN "EARLY WARNING" PROTECTION TAPE INSTALLED CONTINUOUSLY ALONG THE
  ENTIRE LENGTH. THE PROTECTION TAPE SHALL BE INSTALLED DURING BACKFILLING AT LEAST 2 FEET ABOVE THE PIPE, AT
  LEAST 2 FEET BELOW THE FINISHED GRADE, AND AT MOST 4 FEET BELOW THE FINISHED GRADE. THE PROTECTION TAPE SHALL
  BE PLACED DIRECTLY OVER THE PIPE AND BE CONTINUOUSLY MARKED WITH "SEWER". THE PROTECTION TAPE MUST BE
  ELECTRONICALLY LOCATABLE AND BE BRIGHTLY COLORED PLASTIC. THE SELECTION AND INSTALLATION OF THE PROTECTION
- ELECTRONICALLY LOCATABLE AND BE BRIGHTLY COLORED PLASTIC. THE SELECTION AND INSTALLATION OF THE PROTECTION TAPE MUST MEET THE REQUIREMENTS SPECIFIED WITHIN THE PWSA PROCEDURES MANUAL.

  16. AT THE POINT WHERE THE PROPOSED SANITARY SEWER CONSTRUCTION MEETS A LIVE OR EXISTING SEWER, THE NEW SANITARY
- SEWER SHALL BE SECURELY PLUGGED UNTIL THE ENTIRE NEW SANITARY SEWER CONSTRUCTION IS COMPLETED AND READY FOR FINAL INSPECTION.
- CONNECTIONS TO COMBINED SEWERS.

  18. ALL GRAVITY SANITARY SEWER PIPE SHALL BE PVC SDR26.

STANDARDS (INSTALLER'S GUIDE).

19. GRAVITY SANITARY SEWER LINES SHALL BE TESTED FOR INFILTRATION BY MEASURING FLOW OVER A V-NOTCH OR TESTED FOR EXFILTRATION BY FILLING THE LINE WITH WATER TO 10 FEET ABOVE THE INVERT OF THE MANHOLE. THE LIMITING RATE OF INFILTRATION SHALL NOT EXCEED 200 GALLONS PER 1-INCH DIAMETER PER MILE PER 24 HOURS. AN ALTERNATE TESTING METHOD SHALL BE AIR PRESSURE TESTING AT 5 PSI FOR A DURATION OF 10 MINUTES YIELDING NO OBSERVED DROP IN

7. SANITARY SEWER CLEANOUTS SHALL BE PROVIDED WITHIN 5 FEET OF ALL BUILDING CONNECTIONS FOR ALL SEWER

- 20. ALL GAS LINES SHALL HAVE AN "EARLY WARNING" PROTECTION TAPE INSTALLED CONTINUOUSLY ALONG THE ENTIRE LENGTH.
  THE PROTECTION TAPE MUST BE INSTALLED DURING THE BACKFILLING APPROXIMATELY 6 INCHES BELOW THE FINISHED GRADE.
  THE PROTECTION TAPE SHALL BE PLACED DIRECTLY OVER THE PIPE AND BE CONTINUOUSLY MARKED WITH "CAUTION—GAS PIPE
  BELOW". THE PROTECTION TAPE SHALL BE 6 INCH WIDE YELLOW PLASTIC PAIRED WITH A SOLID COPPER TRACER WIRE WITH
  YELLOW THERMOPLASTIC COATING OF AT LEAST #12 AWG. THE SELECTION AND INSTALLATION OF THE PROTECTION TAPE AND
  TRACER WIRE MUST MEET THE REQUIREMENTS SPECIFIED WITHIN THE PEOPLE'S NATURAL GAS SERVICE LINE INSTALLATION
- 21. ANY WATER, SANITARY AND STORM UTILITY WITH 18 INCHES OR LESS VERTICAL SEPARATION BETWEEN OUTSIDE OF PIPE AND OUTSIDE OF PIPE SHALL BE CONCRETE ENCASED.
- 22. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS AND ANY LOCAL AUTHORITIES.
- 23. STREET PAVEMENT AFFECTED BY TRENCHING OR OTHER CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ITS ORIGINAL AND PROPER CONDITION. ALL WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY AND ALL RESTORATION OF STREET PAVEMENTS SHALL ABIDE BY THE POLICIES SET FORTH IN THE CITY OF PITTSBURGH RIGHT-OF-WAY PROCEDURES.

24. ALL SEWER CONNECTIONS MUST BE APPROVED AND INSPECTED BY THE LOCAL GOVERNING AUTHORITY. CONTRACTOR TO

- RECEIVE APPROVAL FROM THE LOCAL AUTHORITY PRIOR TO CONSTRUCTION.

  25. PROPOSED LIGHTING TO BE COORDINATED WITH ELECTRICAL DOCUMENTS.
- 26. ALL PROPOSED CONTOURS AND GRADING ARE FOR REFERENCE ONLY. REFER TO LA PLANS FOR FINAL GRADING.
- 27. AT THE START OF SITE EXCAVATION, CONTRACTOR TO TEST PIT THE PSWA COMBINATION SEWER LINE ALONG BOUNDARY STREET TO VERIFY DEPTH INFORMATION.
- 28. ALL PWSA CONNECTIONS MUST BE APPROVED PRIOR TO ANY CONSTRUCTION.

| LEGEND                         |                          |   |  |
|--------------------------------|--------------------------|---|--|
| DOW DOUNDARY                   | EXISTING                 | PROPOSED                                |  |
| ROW BOUNDARY                   |                          |   |  |
| SANITARY SEWER                 | 00.000                   |   |  |
| SANITARY MANHOLE               | O <sup>SEWER</sup> MH    |   |  |
| SANITARY CLEANOUT              |                          | •                                       |  |
| STORM SEWER                    |                          |   |  |
| INLET                          |                          |   |  |
| STORM MANHOLE                  |                          | •                                       |  |
| WATER LINE                     |                          | w                                       |  |
| FIRE LINE                      |                          | — FW ———                                |  |
| FIRE HYDRANT                   | - <b>6</b> <sub>FH</sub> |   |  |
| WATER VAVLE                    | W√∆                      | x                                       |  |
| THRUST BLOCK                   |                          | _                                       |  |
| GAS LINE                       | G                        | G                                       |  |
| GAS VALVE                      |                          | z                                       |  |
| TELECOM LINE                   | т                        | uT                                      |  |
| ELECTRIC LINE                  | Е                        | UE                                      |  |
| BELOW GRADE<br>STEAM LINE      |                          |   |  |
| ABOVE GRADE<br>STEAM LINE      |                          | —AST———                                 |  |
| BELOW GRADE<br>CONDENSATE LINE |                          |   |  |
| ABOVE GRADE<br>CONDENSATE LINE |                          | c                                       |  |
| ELECTRIC STRUCTURE             | DLCO □                   | <b>●</b> E                              |  |
| TELECOM STRUCTURE              | 0                        | (m)(\bar{\bar{\bar{\bar{\bar{\bar{\bar{ |  |

SCALE IN FEET

FOR BID ONLY, NOT FOR CONSTRUCTION

ZIMMER GUNSUL FRASCA ARCHITECTS LLP

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LIFE SAFETY

CODE CONSULTANTS, INC.
2043 WOODLAND PKWY, SUITE 300
ST. LOUIS, MO 63146

T 314-991-2633

ISSUED FOR: DATE:

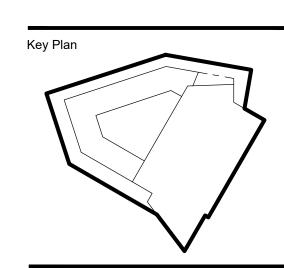
50% CONSTRUCTION 2024.02.09
DOCUMENTS

ISSUE FOR BID 2024.05.03
DOCUMENTS

CARNEGIE MELLON UNIVERSITY- RICHARD KING MELLON HALL OF SCIENCES

4644 FORBES AVE PITTSBURGH, PA 15213

UTILITY PLAN



Date: 2024.05.03

Job No: D26023

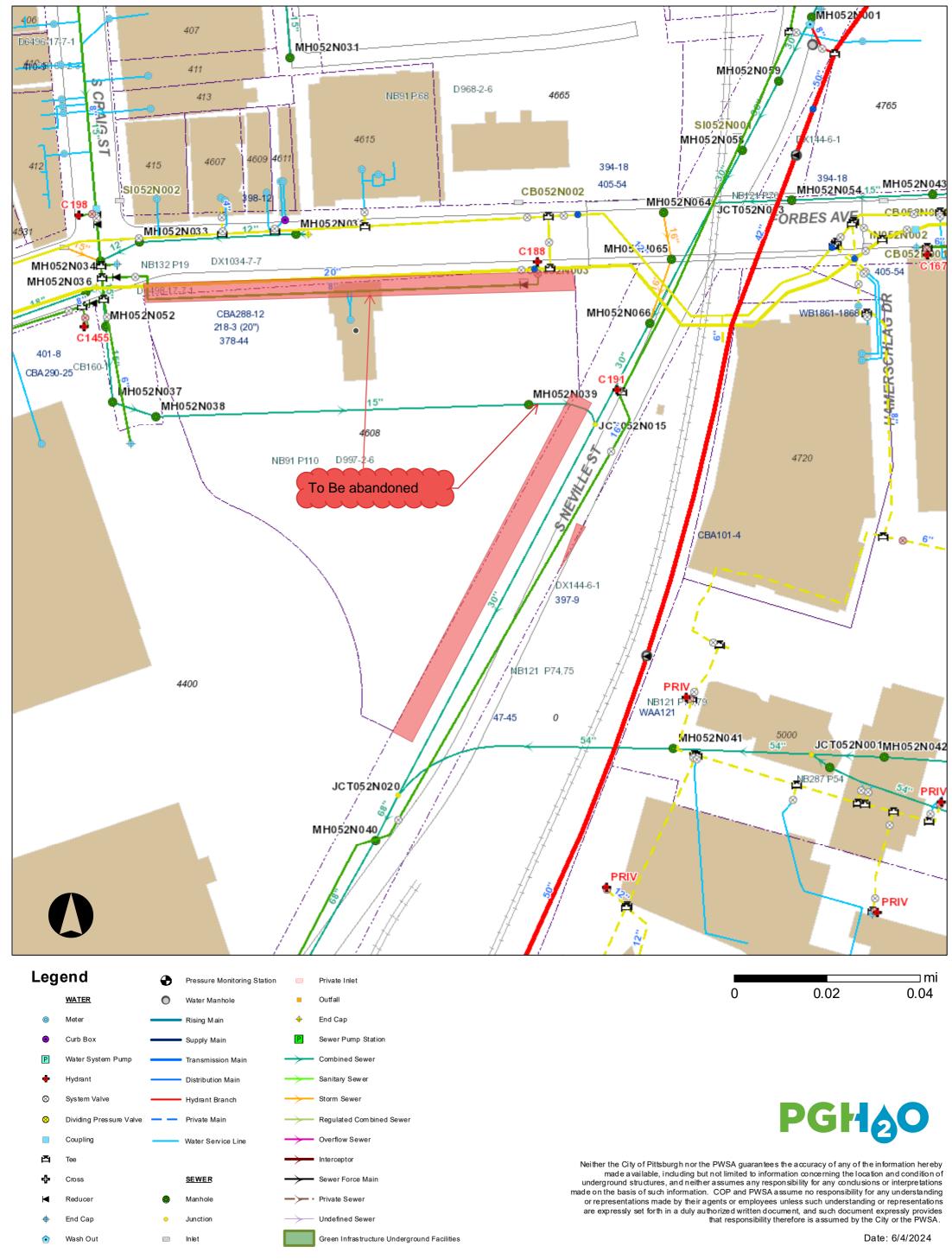
Drawn By: KAG

Checked By: EEG

Drawing No.

CU102

## 4612 Forbes Encroachment Markup







To: Kim Lucas, Director of the Department of Mobility and Infrastructure

From: William J. Pickering, PWSA Chief Executive Officer

Date: June 12, 2024

Subject: Proposed Encroachment at 4644 Forbes Ave

The following is in response to the attached 5/23/2024 request regarding the encroachment at 4644 Forbes Ave in the 4th Ward of the City of Pittsburgh.

- 1. The Water Mapping (attached) indicates that there is an 8" water main within the area of the proposed encroachment. As outlined in the Development Agreement between Developer and PWSA, the water main will be abandoned.
- 2. The Sewer Mapping (attached) indicates that there is a 15" combination sewer within the area of the proposed encroachment. As outlined in the Development Agreement between Developer and PWSA, the sewer main will be abandoned. Please note, PWSA does not maintain records of sewer service laterals and the property owner is responsible for maintenance. We cannot confirm if the private service lateral will be affected.

PWSA has no objection to the proposed encroachment under the conditions set forth above.

JAT

Attachment



#### Corey Elzer Engineering

469 Hershey Rd, Penn Hills 15235 | Mail Drop PH-TD Tel 412-393-2614 | Email: celzer@duqlight.com

## <u>VIA EMAIL:</u> Erminio Genoese < egenoese@langan.com > Re: CMU – RKM Project, Boundary Street Encroachment Permit Letter - Duquesne Light

To whom it may concern,

Duquesne Light has reviewed this request, and the following guidelines needs to be adhered to proceed with encroachment as designed.

Guidelines when working near the HPFF:

- Use caution when excavating near the HPFF. A vac truck is required to avoid contact with our HPFF in one call exclusion zone.
- The pipes are buried in thermal sand.
- Caution must be taken to avoid contact with any of the HPFF lines (circulation pipe or either circuit pipe). The pipe has a special coating that helps prevent corrosion. A nick today could result in a dielectric leak in the future.
- The new lines should be at least 2 feet under any of the HPFF lines. However, DLC would like to review the plans for the new steam line to perform thermal calculations. Additional space between the steam line and the HPFF may be required depending on the results of the DLC thermal calculations.
- A steel plate will be required between the HPFF and the new steam pipe.
- If the HPFF pipes are exposed more that 5 feet, they must be supported from above. DLC shall approve the plan to support the pipe.
- When backfilling around the HPFF, a flowable thermal backfill should be used around the HPFF pipe per DLC specification.
- Prior to any backfilling around the HPFF, DLC must inspect the coating. Any coating damage will have to be repaired by a qualified contractor and tested to verify the integrity of the coating.

This letter is not intended as a full recitation of the facts or a complete review of applicable law. Nothing contained in or omitted from this letter is or shall be deemed to be a limitation, restriction, modification, or waiver of any of Duquesne Light's rights or remedies, either at law or in equity, in connection with any of the matters raised, all of which are expressly reserved.

Sincerely,

Corey Elzer

Supervisor, Engineering 412.393.2614 (Office) celzer@duqlight.com

Corey A Elzer

Duquesne Light Company 469 Hersey Rd. Penn Hill, PA 15235 DuquesneLight.com



Jill Marie Groves
TEL 412.258.4691
MOBILE 412.588.4219
jill.groves@peoples-gas.com

May 6, 2024

Kimberly Lucas, Director Department of Mobility and Infrastructure City of Pittsburgh 611 Second Avenue Pittsburgh, PA 15219

RE: Plan Revision of Generator and Pad location

4<sup>th</sup> Ward, City of Pittsburgh, Allegheny County

Dear Ms. Lucas:

This letter is in response to a request that Peoples Natural Gas Company (Peoples) received from LANGAN engineering regarding a plan revision for a generator and pad location, on behalf of CMU Richard King Mellon Hall of Sciences development.

Based on the drawings provided to Peoples, the proposed plans variances will not interfere with our gas facilities in this area.

Peoples has no objection to the proposed street vacation.

Sincerely,

Jill Marie Groves

Jill Marie Groves Land Department