
DEP Code No.: 02001-21-102

SEWAGE FACILITIES PLANNING MODULE

for

**6629-6633 NORTHUMBERLAND STREET
6629-6633 Northumberland Street
Pittsburgh, PA 15217**

Prepared For:

**Jiangyang Zhang,
TGY Partners
PO Box 81503
Pittsburgh, PA 15217-0303**

Prepared By:

**Langan Engineering and Environmental Services, Inc.
2400 Ansys Drive, Suite 403
Canonsburg, Pennsylvania 15317**

LANGAN

**April 2021
250135301**

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APPENDIX A

Transmittal Letter and Correspondence



**TRANSMITTAL LETTER
 FOR SEWAGE FACILITIES PLANNING MODULE**

| DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) USE ONLY | | | | |
|---|-------------|-----------|----------|------------|
| DEP CODE # | CLIENT ID # | SITE ID # | APS ID # | AUTH. ID # |
| | | | | |

TO: Approving Agency (DEP or delegated local agency)
 PA DEP Southwest Regional Office
 400 Waterfront Drive
 Pittsburgh, PA 15222-4745

Date _____

Dear Sir/Madam:

Attached please find a completed sewage facilities planning module prepared by _____ (Name)
Langan Engineering and Environmental Services, Inc. for 6629-6633 Northumberland Street
 (Title) (Name)
 a subdivision, commercial ,or industrial facility located in the City of Plttsburgh

Allegheny County.
 (City, Borough, Township)

Check one

(i) The planning module, as prepared and submitted by the applicant, is approved by the municipality as a proposed revision supplement for new land development to its Official Sewage Facilities Plan (Official Plan), and is adopted for submission to DEP transmitted to the delegated LA for approval in accordance with the requirements of 25 Pa. Code Chapter 71 and the *Pennsylvania Sewage Facilities Act* (35 P.S. §750),

OR

(ii) The planning module will not be approved by the municipality as a proposed revision or supplement for new land development to its Official Plan because the project described therein is unacceptable for the reason(s) checked below:

Check Boxes

- Additional studies are being performed by or on behalf of this municipality which may have an effect on the planning module as prepared and submitted by the applicant. Attached hereto is the scope of services to be performed and the time schedule for completion of said studies.
- The planning module as submitted by the applicant fails to meet limitations imposed by other laws or ordinances, officially adopted comprehensive plans and/or environmental plans (e.g., zoning, land use, 25 Pa. Code Chapter 71). Specific reference or applicable segments of such laws or plans are attached hereto.
- Other (attach additional sheet giving specifics).

Municipal Secretary: Indicate below by checking appropriate boxes which components are being transmitted to the approving agency.

- | | | |
|--|---|--|
| <input type="checkbox"/> Resolution of Adoption | <input type="checkbox"/> 3 Sewage Collection/Treatment Facilities | <input type="checkbox"/> 4A Municipal Planning Agency Review |
| <input type="checkbox"/> Module Completeness Checklist | <input type="checkbox"/> 3s Small Flow Treatment Facilities | <input type="checkbox"/> 4B County Planning Agency Review |
| <input type="checkbox"/> 2 Individual and Community Onlot Disposal of Sewage | | <input type="checkbox"/> 4C County or Joint Health Department Review |

 Municipal Secretary (print)

 Signature

 Date

CORRESPONDENCE



WATER AND SEWER AVAILABILITY LETTER REQUEST

All persons planning to perform construction, demolition, or renovation work that will involve water and/or sewer services are recommended to complete this form and submit to PWSA. PWSA will review the request and reply to indicate if PWSA-owned water and/or sewer utilities are present at the site of the proposed work.

This request form is **required** for all of the following types of development. (Please note that the term "sewer" refers to sanitary sewers, combined sewers, and storm sewers.)

1. New water and/or sewer tap(s) for all approved/recorded subdivisions.
2. Change of Use and/or increase in water and/or sewer flows for residential development(s), commercial, industrial and institutional developments (i.e. total project sanitary flow is greater than 799 gallons per day).
3. New water and/or sewer tap(s) for all residential, commercial, industrial, and institutional developments.

Please email the completed form to: permitinfo@pgh2o.com

| | | | |
|--|---|--------------------------|---------------------------|
| Information to be submitted by the Applicant: | | | |
| Property Owner Name: | TGY Partners | | |
| Address of Property: | 6629 Northumberland St., Pittsburgh, PA 15217 | | |
| Proposed Use of Site: | Multi-unit residential building | | |
| Closest street intersection to the property: | Northumberland St. and Barnsdale St. | | |
| Requester Information | | | |
| Name: | Ben Hunter | Date of Request: | 10/22/2020 |
| Address: | 2400 Ansys Dr., Suite 403, Canonsburg, PA 15317 | | |
| Phone Number: | 724-514-5125 | | |
| Email Address: | bhunter@langan.com | | |
| Preferred Method of Delivery: | <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail | | |
| PWSA Use Only: | | | |
| PWSA Water Service Available | <input type="checkbox"/> Yes <input type="checkbox"/> No | Size / Location: | 6" Northumberland Street |
| PWSA Sewer Service Available: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Size / Location: | 15" Northumberland Street |
| Applicant must contact separate agency for water and/or sewer service: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| Name of separate agency: | _____ | | |
| PWSA Approval: | Signature and Date | _____ | |
| | Name (printed) | Wendy M. Dean 10/23/2020 | |
| | Title | Engineering Tech II | |

Disclaimer: The information provided by PWSA does not guarantee capacity of the PWSA-owned water and/or sewer lines to satisfy the needs of the proposed development. The permit application process required by PWSA evaluates the water demand and sewer flows of the development, as provided by the Applicant, and renders a decision on the capacity of the PWSA facilities.

October 23, 2020

Ben Hunter
2400 Ansys Drive, Suite 403
Canonsburg, PA 15317

RE: Water and Sewer Availability
6629 Northumberland Street

Dear Mr. Hunter:

In response to your inquiry on 10/22/2020 concerning water and sewer availability for the area referenced above, please be advised that both water and sewers are available near the site, and water and sewer service will be provided in accordance with the policies and procedures of the Pittsburgh Water and Sewer Authority.

We wish to advise you that, if it is your desire to tap our water and sewer mains for service, your plans and Water and Sewer Use Application must be approved by the Authority, complete with detail showing the type of connection, meter, and backflow device before any work is performed.

Please note that the Authority in no way guarantees that the available lines have the capacity or pressure adequate for your project's needs. It is the responsibility of the project developer, design consultant, and/or architects to determine, at their expense, the adequacy of the existing water system to fulfill their needs.

If you plan to make modifications to the water or sewer system, please submit design drawings to The Pittsburgh Water and Sewer Authority for approval.

Refer to the Pittsburgh Water and Sewer Authority (PWSA) website (www.pgh2o.com) for the complete "Procedure Manual for Developers". All tap in plans and applications must be submitted according to the manual.

If you have any questions, please feel free to contact me at (412) 255-8800 x 8030. Thank you.

Sincerely,



Wendy M. Dean
Engineering Tech II

cc: PWSA File

6629 Northumberland Street - Sewer



Legend

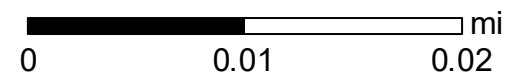
WATER

- Meter
- Curb Box
- Water System Pump
- Hydrant
- System Valve
- Dividing Pressure Valve
- Coupling
- Tee
- Cross
- Reducer
- End Cap
- Wash Out

- Pressure Monitoring Station
- Water Manhole
- Rising Main
- Supply Main
- Transmission Main
- Distribution Main
- Hydrant Branch
- Private Main
- Water Service Line

SEWER

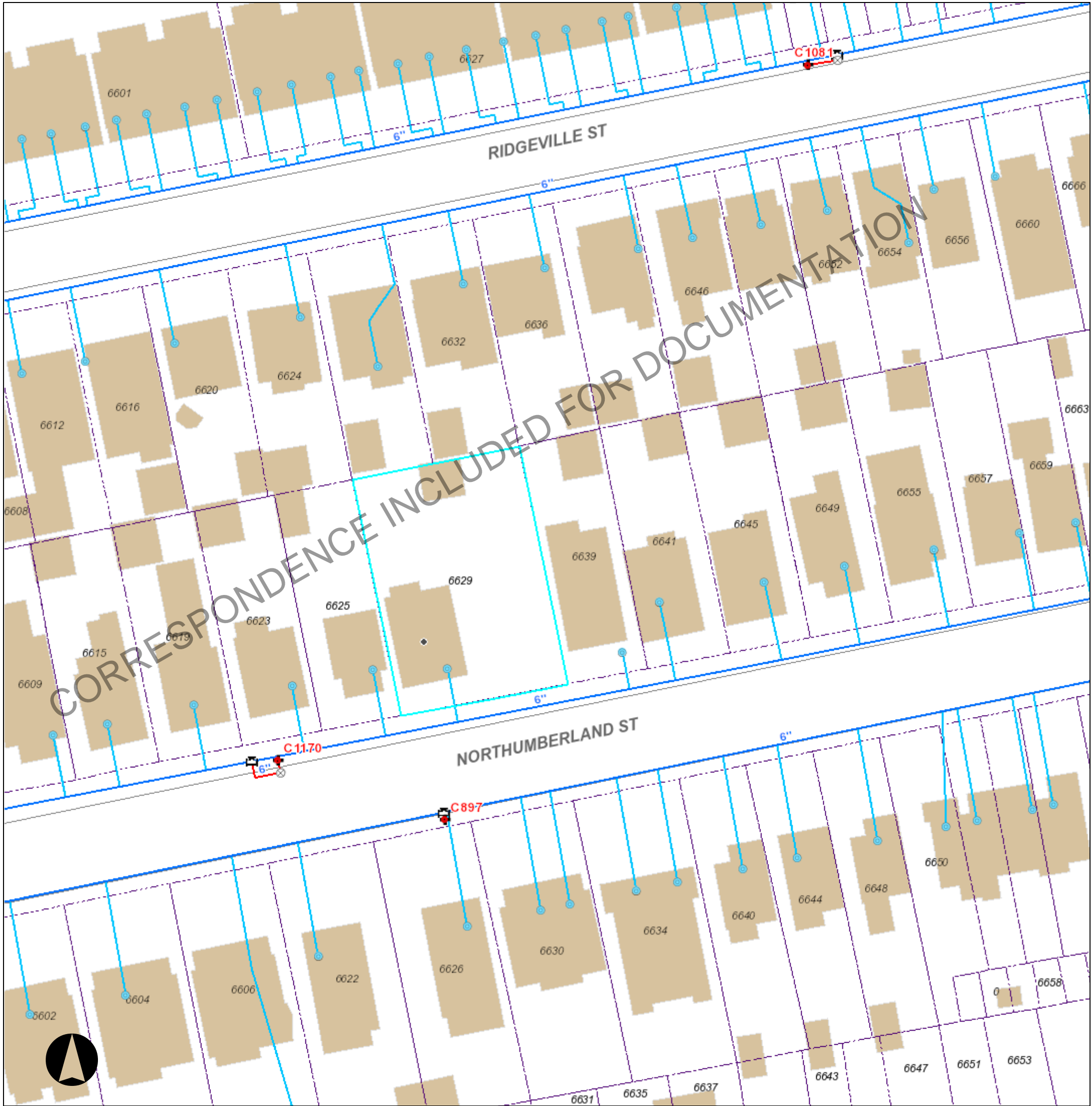
- Manhole
- Junction
- Inlet
- Private Inlet
- Outfall
- End Cap
- Sewer Pump Station
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- Regulated Combined Sewer
- Overflow Sewer
- Interceptor
- Sewer Force Main
- Private Sewer
- Undefined Sewer
- Green Infrastructure Underground Facilities



Neither the City of Pittsburgh nor the PWSA guarantees the accuracy of any of the information hereby made available, including but not limited to information concerning the location and condition of underground structures, and neither assumes any responsibility for any conclusions or interpretations made on the basis of such information. COP and PWSA assume no responsibility for any understanding or representations made by their agents or employees unless such understanding or representations are expressly set forth in a duly authorized written document, and such document expressly provides that responsibility therefor is assumed by the City or the PWSA.

Date: 10/23/2020

6629 Northumberland Street - Water



Legend

WATER

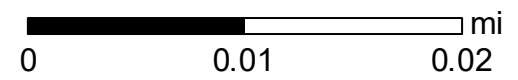
- Meter
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- Dividing Pressure Valve
- Coupling
- Tee
- Cross
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- End Cap
- Wash Out

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- Transmission Main
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- Hydrant Branch
- Private Main
- Water Service Line

SEWER

- Manhole
- Junction
- Inlet

- Private Inlet
- Outfall
- End Cap
- Sewer Pump Station
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Date: 10/23/2020

January 21, 2021

Mr. Thomas Flanagan
PA Department of Environmental Protection
Clean Water Program
400 Waterfront Drive
Pittsburgh, PA 15222

Subject: Preliminary Determination on the Need for Sewage Planning
Project Name: 6619 Northumberland Street
PWSA Project No.: 20014.29

Dear Mr. Flanagan:

Please be advised that the Pittsburgh Water and Sewer Authority has approved the Water and Sewer (W/S) Use Application for the aforementioned Project. We have enclosed the W/S Use Approval Letter and the supporting documentation. The approved sanitary flows are summarized below:

| Type of Sanitary Flow | Definition | Flow, gpd |
|-----------------------|---|-----------|
| Project Flow | Peak daily flow associated with the Project | 1,600 |
| Existing Flow | Peak daily flow within the past five years | 0 |
| Net Flow | = Project Flow – Existing Flow | 1,600 |

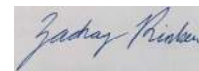
Please see below for our Preliminary Determination on the Need for Sewage Planning:
[CHECK BOX]

- Yes, we believe the Project requires sewage planning
 No, we believe the Project does not require sewage planning

Based on the foregoing, please provide a Final Determination on the Need for Sewage Planning.

Our review was based on information provided by others under the assumption that this information was accurate and complete. Should you have any questions, please do not hesitate to contact me directly at ZRinker@pgh2o.com.

Sincerely,



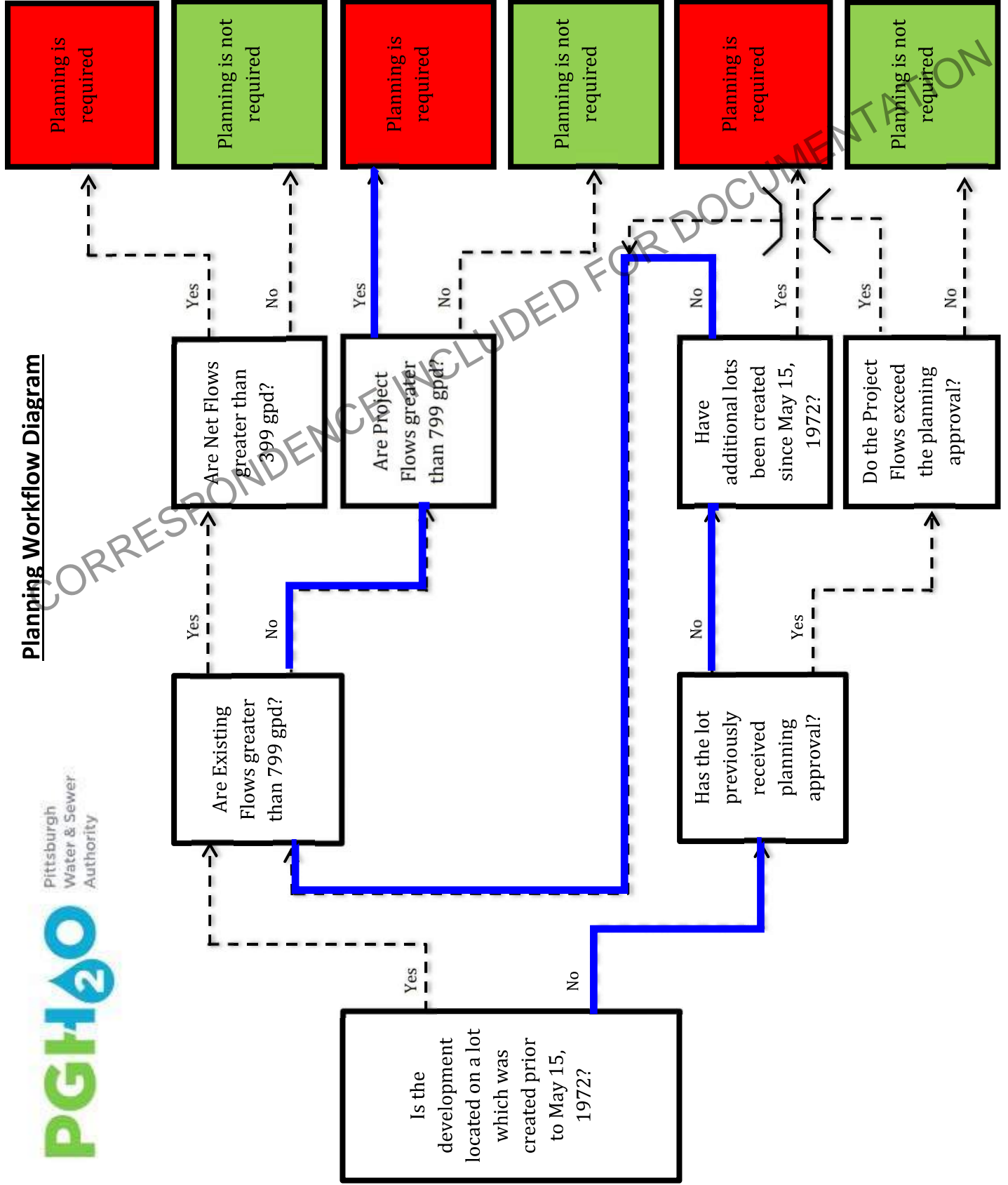
Zachary D Rinker
2021.01.21
08:44:48 -05'00'

Zach Rinker
Associate Project Manager

Enclosure(s)

cc: Barry King, P.E. – PWSA (via email)
Kate Mechler, P.E. – PWSA (via email)
Robert Herring, P.E. – PWSA (via email)
Robert Gehris – Applicant (via email)
eBuilder – Filing System (via email)

Planning Workflow Diagram



CORRESPONDENCE INCLUDED FOR DOCUMENTATION



Water and Sewer (W/S) Use Application Form

Instructions The complete W/S Use Application shall be uploaded via e-builder. To obtain an e-builder project folder, please make a request on our website at www.pgh2o.com/permits. In addition, please refer to the Developer's Manual for detailed information on application requirements.

Requirements Application Fee Application Form Narrative
 Flow Calculations Site Plan Floor Plan

Project Info Project Name: 6629 Northumberland Street
Address: 6629-6633 Northumberland Street,
Pittsburgh, PA 15217

Is the Project located on a lot created prior to May 15, 1972? YES NO
Owner/Developer Name: Jiangyang Zhang

Address: PO Box 81503
Pittsburgh, PA 15217-0303

Email: yang@tgy-partners.com
Phone Number: _____


Consultant Firm Name: Langan Engineering and Environmental Services
Address: 2400 Ansys Drive, Suite 403
Canonsburg, PA 15317

Contact Name: Benjamin Hunter
Email: bhunter@langan.com
Phone Number: 724-514-5125

Flow Data

| Type of Flow | Sanitary, gpd | Water, gpd | Storm, cfs |
|---------------|---------------|------------|--------------|
| Project Flow | 1,600 | 1,600 | 1.32 |
| Existing Flow | 0 | 0 | 1.13 |
| Net Flow | 1,600 | 1,600 | Not Required |

Signature By signing below, I hereby certify, to the best of my knowledge, that the information provided within the Water and Sewer Use Application is true, complete and accurate.

Name, printed: Robert Gehris - Langan Engineering & Environmental Services
Signature: 
Date: December 29, 2020

CORRESPONDENCE INCLUDED FOR DOCUMENTATION

PWSA WATER AND SEWER USE APPLICATION

for

**6629 NORTHUMBERLAND STREET
City of Pittsburgh,
Allegheny County, Pennsylvania**

Prepared For:

**Jiayang Zhang
6629-6633 Northumberland Street
Pittsburgh, PA 15217**

Prepared By:

**Langan Engineering and Environmental Services, Inc.
2400 Ansys Drive, Suite 403
Canonsburg, Pennsylvania 15317**

LANGAN

**December, 2020
250135301**

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| Proposed Water Consumption and Sanitary Flows | 1 |
| Proposed Stormwater Flows | 2 |
| Rational Method | 2 |

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| Figure 3 | Proposed Land Use Map |

LIST OF DRAWINGS

| DRAWING | DESCRIPTION |
|----------------|---------------------|
| GI100 | Informational Cover |
| GI101 | Sewer Tap-in Plan |
| GI102 | Water Tap-in Plan |
| GI501 | Tap-in Details |
| A-1.01 | Floor Plans |
| A-1.02 | Floor Plans |

LIST OF APPENDICES

| APPENDIX | DESCRIPTION |
|-----------------|--|
| A | Calculations |
| | Proposed Sewage Flow Estimation |
| | Proposed Building Sanitary Pipe Calculations |

PROJECT NARRATIVE

Existing Conditions

The project site is located at 6629-6633 Northumberland Street, on the block between South Dallas Avenue and Barnsdale Street in the Squirrel Hill North neighborhood of the City of Pittsburgh. The site is located on City of Pittsburgh parcel number 126-N-56. The site is generally bound by residential lots to the north (City of Pittsburgh Parcels 126-N-103 & 126-N-101), east (Parcel 126-N-60), and west (Parcel 126-N-54), and Northumberland Street to the South (refer to Figure 1). The site is currently occupied by a residential structure, lawn and detached garage.

Proposed Development

Zhang Jiangyang, the property owner of the subject parcel, is proposing to construct a new 4-unit residential building, and keeping the existing single unit residential structure undisturbed. This application focuses solely on the proposed building. The proposed building will be 4 stories tall, with one 2-bedroom condominium on the first floor, one 2-bedroom condominium on the first floor, one 2-bedroom condominium split between the 3rd and 4th floors, and one 3-bedroom condominium split between the third and fourth floors, for four units in total

Proposed Water and Sewer Use

The project includes a proposed 10-inch storm service lateral from the proposed building to the existing 15-inch sewer in Northumberland Street. Additionally, a proposed 4-in sanitary lateral will extend from the proposed building and connect to the proposed storm lateral within 5-ft of the sewer main, resulting in 1 sewer tap-in for the proposed development. See Table 1 for proposed sanitary sewage flow estimation computations. Proposed pipe sizes listed in this paragraph are estimates and will be confirmed prior to construction.

The proposed project also includes a 4-inch fire service tapping into the 6-inch water main in Northumberland Street. A 2-inch domestic service line will tee off the 4-inch fire service at the curb. It is anticipated that the proposed 2-in domestic service line will be routed through a meter crock within the front yard of the subject property. Proposed pipe sizes listed in this paragraph are estimates and will be confirmed prior to construction.

The existing municipal system is expected to meet the proposed demands for water, sanitary sewer, and storm sewer services for the development.

FLOW CALCULATION SHEETS

Proposed Water Consumption and Sanitary Flows

The calculations of the total anticipated sanitary flows are based on the flow estimates found in Table 2-1: Sanitary Flow Estimates in the PWSA Procedures Manual for Developers. As shown in Table 1, the anticipated average sewage flow for the proposed development is 1,600 gallons

per day, or 5.3 EDUs. The proposed net water consumption is expected to be the same as the proposed sanitary flows for the proposed building: 5.3 EDUs (1,600 gallons per day).

TABLE 1: PROPOSED SANITARY SEWAGE FLOW ESTIMATION

| Type of Establishment | Unit | QTY | Anticipated Average Rate (GPD/Unit) ¹ | Anticipated Average Sewage Flow (GPD) |
|------------------------------------|------|-----|--|---------------------------------------|
| Condominiums (2 Bedrooms) | EA | 3 | 400 | 1,200 |
| Condominium (3 Bedrooms) | EA | 1 | 400 | 400 |
| Required GPD = | | | | 1,600 |
| Required EDUs² = | | | | 5.3 |
| Requested TOTAL GPD = | | | | 1,600 |

1 – Rate is based on the flow estimate defined in Table 2-1 of the PWSA Procedures Manual for Developers.

2 – EDUs are based on 300 GPD/EDU.

Proposed Stormwater Flows

The stormwater management design for this site follows Section 906.07 of the City of Pittsburgh Code and Chapter 7 of the Pennsylvania Department of Transportation Publication 584, which was adopted and approved in accordance with the Pennsylvania Storm Water Management Act.

The stormwater management design for the site follows the City of Pittsburgh Stormwater Management Ordinance (Title Thirteen).

The total area of disturbance for the development will be less than 10,000 square feet; therefore, per Section 1303.01.A of the City of Pittsburgh Code, the project is exempt from stormwater management regulations.

Stormwater discharge rates for the existing and proposed development are based on the Rational Method described within the PWSA Procedures Manual for Developers. Refer to Table 3 and 4 for summarized results using the Rational Method. Stormwater runoff from the site will discharge into the existing 15-inch sewer in Northumberland Street.

Rational Method

This study was prepared using methods contained in the PWSA Procedures Manual for Developers. The Rational Method was used to estimate the maximum rate of runoff (Q) from the site for a 25-year design storm.

The Rational Method for calculating the quantity of stormwater is defined by the following equation:

EQUATION 1: RATIONAL METHOD

$$Q = CIA$$

*PWSA Procedures Manual for Developers -
 PWSA Basic Information for Calculation of
 Stormwater Flow Using the Rational Method -
 Publication Version 6 - Issued 04/15.

The value for the average rainfall intensity (I) was taken from the NOAA Atlas 14 for the 25-year, 5-minute storm event. Values for area (A), time of concentration (Tc), and coefficient of runoff (C) were entered for the existing and proposed watersheds. An average C was chosen based on the percentage of each type of land cover using the following coefficients:

TABLE 2: RUNOFF COEFFICIENT VALUES

| LAND COVER | C |
|--|------|
| Improved Surface (concrete, asphalt, brick, surface treated) | 0.95 |
| Building Footprint | 0.95 |
| Unimproved Surface (Suburban, normal residential) | 0.60 |

*Values from the PWSA Procedures Manual for
 Developers – Table 2-2 Values for the Coefficient of
 Runoff - Publication Version 6 - Issued 01/18.

The peak stormwater runoff rates using the rational method are summarized in Table 4.

TABLE 3: SUMMARY OF EXISTING STORMWATER PEAK DISCHARGES RATES

| LAND COVER | DRAINAGE AREA (SF) | DRAINAGE AREA (AC) | INTENSITY (IN/HR) | RUNOFF COEFFICIENT "C" | PEAK FLOW (CFS) |
|--|--------------------|--------------------|-------------------|------------------------|-----------------|
| Improved Surface (concrete, asphalt, brick, surface treated, building) | 3,136 | 0.07 | 7.13 | 0.95 | 0.49 |
| Unimproved Surface | 6,447 | 0.15 | 7.13 | 0.60 | 0.64 |
| SITE RUNOFF | | | | | 1.13 |

TABLE 4: SUMMARY OF PROPOSED STORMWATER PEAK DISCHARGES RATES

| LAND COVER | DRAINAGE AREA (SF) | DRAINAGE AREA (AC) | INTENSITY (IN/HR) | RUNOFF COEFFICIENT "C" | PEAK FLOW (CFS) |
|--------------------|---------------------------|---------------------------|--------------------------|-------------------------------|------------------------|
| Impervious Area | 6,665 | 0.15 | 7.13 | 0.95 | 1.01 |
| Unimproved Surface | 2,918 | 0.07 | 7.13 | 0.60 | 0.31 |
| SITE RUNOFF | | | | | 1.32 |

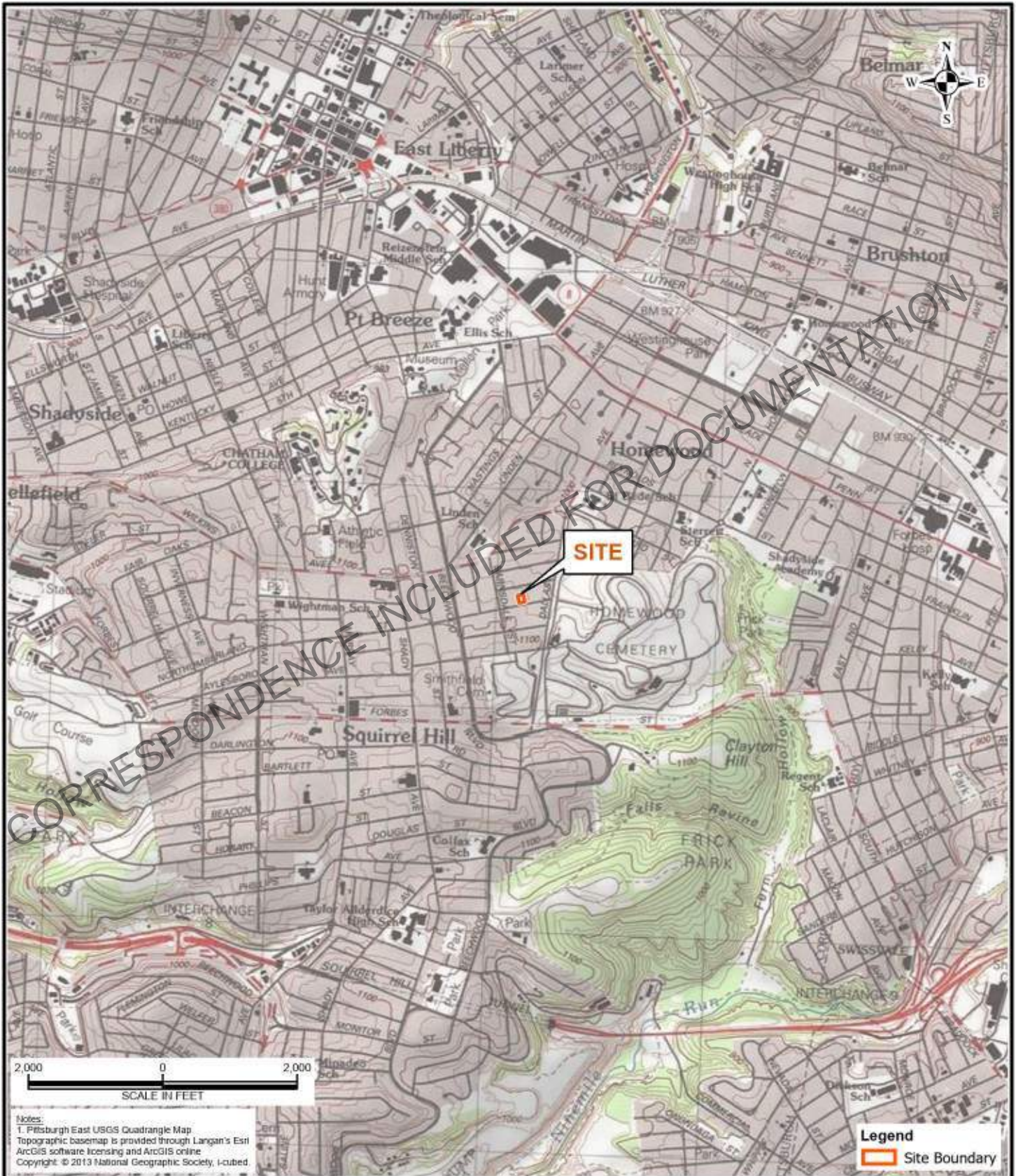
Using the rational method based on the 25-year storm, the stormwater discharge rate for the existing site conditions is 1.13 cubic feet per second, and the stormwater discharge rate for the proposed site conditions will be 1.32 cubic feet per second.

\\langan.com\data\pit\data3\250135301\project data_discipline\site civil\permit apps\pwsa\water and sewer use application\0100 6629 northumberland project narrative.docx

CORRESPONDENCE INCLUDED FOR DOCUMENTATION

CORRESPONDENCE INCLUDED FOR DOCUMENTATION

FIGURES



Notes:
 1. Pittsburgh East USGS Quadrangle Map
 Topographic basemap is provided through Langan's Esri
 ArcGIS software licensing and ArcGIS online
 Copyright: © 2013 National Geographic Society, I-cubed.

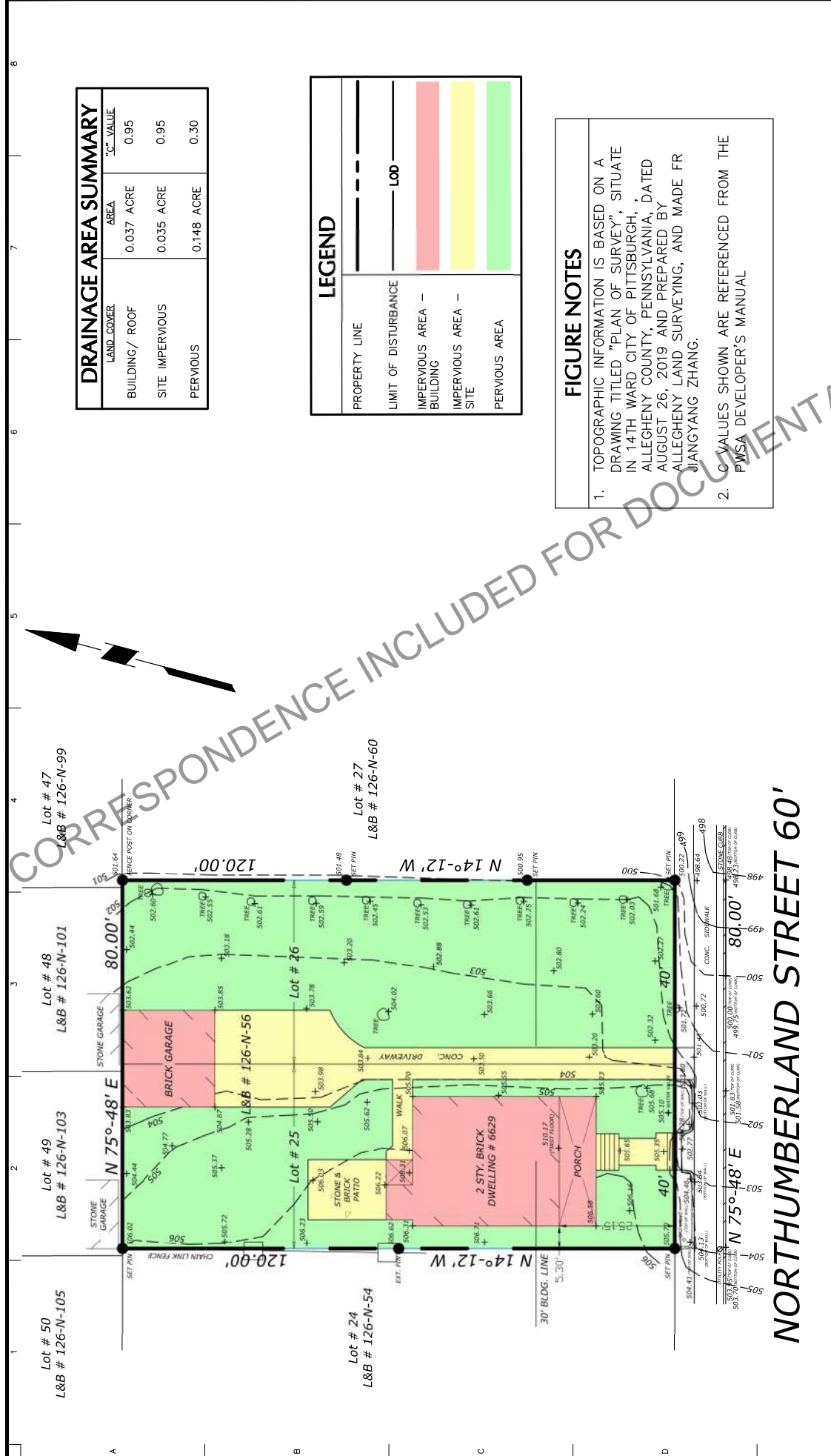
LANGAN
 Langan Engineering and
 Environmental Services, Inc.
 2400 Ansys Drive, Suite 403
 Canonsburg, PA 15317-9540
 T: 724.514.5100 F: 724.514.5101
 www.langan.com

Project:
**6629
 NORTHUMBERLAND
 STREET**
 PITTSBURGH
 ALLEGHENY COUNTY PA

Drawing Title:
**SITE
 LOCATION
 MAP**

Project No.
 250135301
 Date
 12/3/2020
 Scale
 1" = 2,000 feet
 Drawn By
 LDB

Figure
1

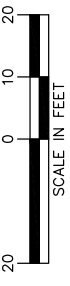


| DRAINAGE AREA SUMMARY | | |
|-----------------------|------------|-----------|
| LAND COVER | AREA | "C" VALUE |
| BUILDING/ ROOF | 0.037 ACRE | 0.95 |
| SITE IMPERVIOUS | 0.035 ACRE | 0.95 |
| PERVIOUS | 0.148 ACRE | 0.30 |

| LEGEND | |
|----------------------------|--------------|
| PROPERTY LINE | — |
| LIMIT OF DISTURBANCE | - - - |
| IMPERVIOUS AREA - BUILDING | [Red Box] |
| IMPERVIOUS AREA - SITE | [Yellow Box] |
| PERVIOUS AREA | [Green Box] |

FIGURE NOTES

- TOPOGRAPHIC INFORMATION IS BASED ON A DRAWING TITLED "PLAN OF SURVEY", SITUATE IN 14TH WARD CITY OF PITTSBURGH, ALLEGHENY COUNTY, PENNSYLVANIA, DATED AUGUST 26, 2019 AND PREPARED BY ALLEGHENY LAND SURVEYING, AND MADE FR JIANGYANG ZHANG.
- VALUES SHOWN ARE REFERENCED FROM THE PWSA DEVELOPER'S MANUAL



NORTHUMBERLAND STREET 60'

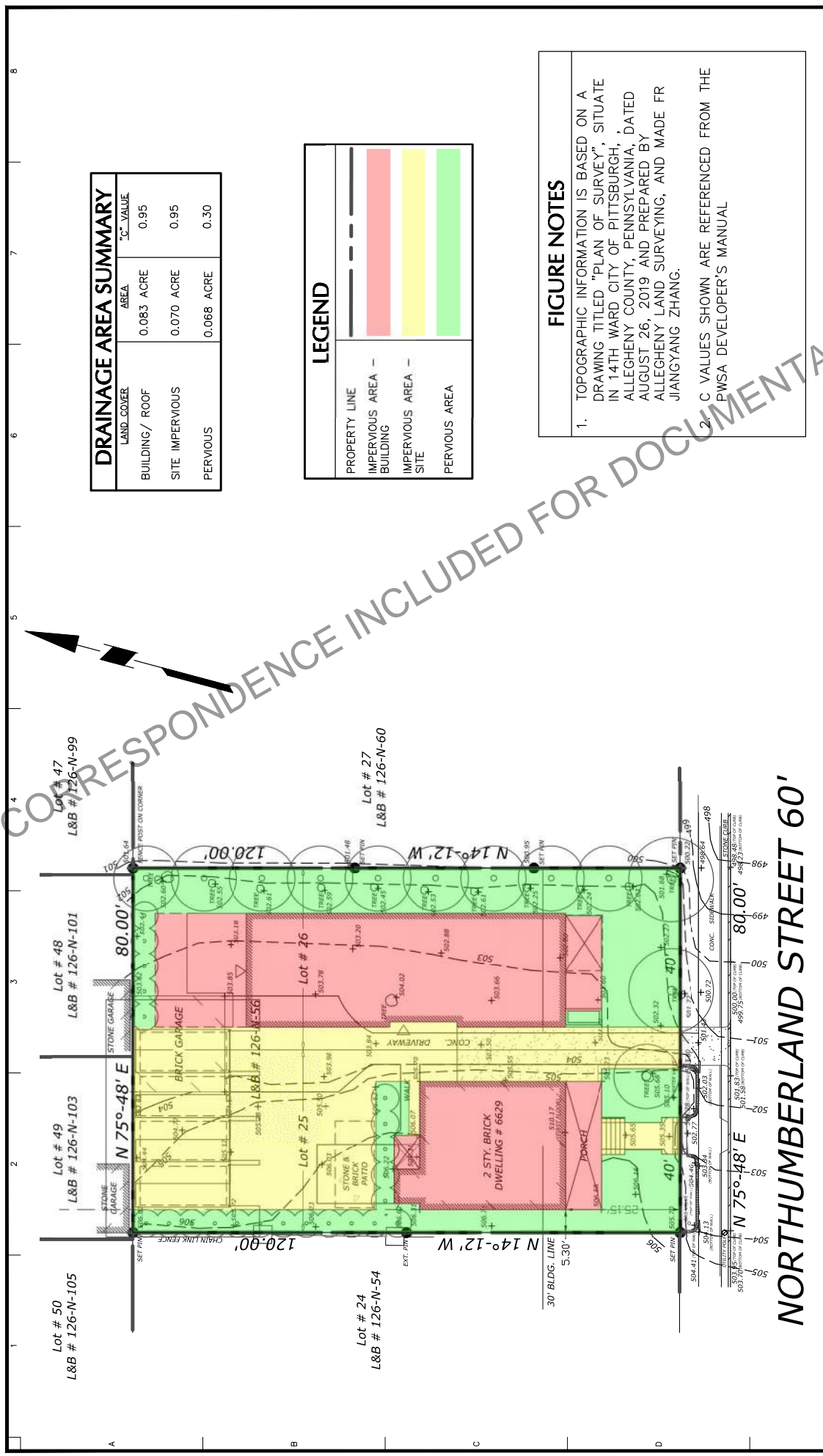
LANGAN
Langan Engineering and
Environmental Services, Inc.
2400 State St., 4th Fl.
Coronado, PA 15107
724.514.5100 724.514.5101 www.langan.com

Project: **6629 NORTHUMBERLAND STREET**
City of Pittsburgh, Allegheny County, Pennsylvania

Drawing Title: **EXISTING LAND USE MAP**

Project No. **250133901**
Date: **12/01/2020**
Drawn By: **CG**
Checked By: **RSZ**

Drawing No. **2**

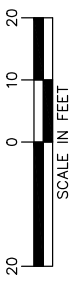


| DRAINAGE AREA SUMMARY | | |
|-----------------------|------------|-----------|
| LAND COVER | AREA | "C" VALUE |
| BUILDING / ROOF | 0.083 ACRE | 0.95 |
| SITE IMPERVIOUS | 0.070 ACRE | 0.95 |
| PERVIOUS | 0.068 ACRE | 0.30 |

| LEGEND | |
|----------------------------|--------------|
| PROPERTY LINE | --- |
| IMPERVIOUS AREA - BUILDING | [Red Box] |
| IMPERVIOUS AREA - SITE | [Yellow Box] |
| PERVIOUS AREA | [Green Box] |

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- C VALUES SHOWN ARE REFERENCED FROM THE PWSA DEVELOPER'S MANUAL



NORTHUMBERLAND STREET 60'

LANGAN
 Langan Engineering and Consulting, Inc.
 2405 Appleton Pike, 4th Floor
 Cranberry, PA 15107
 724.514.5100 www.langan.com

Project: **6629 NORTHUMBERLAND STREET STREET IMPROVEMENT PROJECT**
 ALLEGHENY COUNTY, PENNSYLVANIA

Drawing Title: **PROPOSED LAND USE MAP**

Project No. **250133501**
 Date: **12/01/2020**
 From: **CC**
 Checked By: **RSJ**

Drawing No. **3**

Date: 12/22/2020 Time: 17:04 User: rjphhs Style: table; Langan.ssh Layout: Layout1 Document Code: 250133501-4291-CA104-0104

CORRESPONDENCE INCLUDED FOR DOCUMENTATION

DRAWINGS

GENERAL NOTES

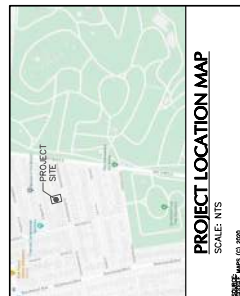
- 1. WORK SHALL BE IN ACCORDANCE WITH THE CITY OF PITTSBURGH WATER AND SEWER AUTHORITY (PWSA) AND THE PWSA DESIGN MANUAL...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

SEWER LINE NOTES

- 1. BENCH MARKS SHALL BE PROVIDED BY THE CITY OF PITTSBURGH WATER AND SEWER AUTHORITY...
2. ALL MANHOLES TO BE PIPED APPROVED PRE-CAST CONCRETE MANHOLES AS PER ASTM...
3. ALL STANDARD HOLES TO BE MINIMUM 4" IN DIAMETER FOR SANITARY SEWERS...
4. ALL STANDARD HOLES TO BE MINIMUM 4" IN DIAMETER FOR SANITARY SEWERS...

WATER LINE NOTES

- 1. ALL WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF PITTSBURGH WATER AND SEWER AUTHORITY...
2. ALL WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF PITTSBURGH WATER AND SEWER AUTHORITY...
3. ALL WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF PITTSBURGH WATER AND SEWER AUTHORITY...



PROJECT LOCATION MAP SCALE: NTS

Table with 4 columns: TYPE OF FLOW, SANITARY GPD, WATER GPD, STORM CFS. Rows include PROJECT FLOW, EXISTING FLOW, NET FLOW, and PWSA USE APPROVAL DATE.

BEAK ONLY FLOW DEMANDS To be completed by the Applicant. SPRINKLER SYSTEM DESIGN INFORMATION LOCATIONS: 130, 133, OTHER: _____

HYDRANT FLOW TEST RESULTS DATE OF TEST: _____ HYDRANT PERMIT NUMBER: _____ PERFORMED BY: _____

SYSTEM CONFIGURATION (Check one) STAN-ALONE SPRINKLER SYSTEM MULTI-PURPOSE SPRINKLER SYSTEM

HOSE DEMANDS (N/A for 1.5D systems) INSIDE HOSE DEMAND: GPM _____ OUTSIDE HOSE DEMAND: GPM _____

HYDRANT NUMBER: _____ LOCATION: _____ FLOW OBSERVED: GPM _____

PRESSURE (W/DRANT) _____ PRESSURE (W/O DRANT) _____

STATIC PRESSURE: PSI _____ RESIDUAL PRESSURE: PSI _____

CALCULATIONS PROJECTED FLOW AT 20 PSI: GPM _____

THE PITTSBURGH WATER & SEWER AUTHORITY APPROVAL BLOCK To be completed by the Applicant: (Check all that apply) NEW WATER CONNECTIONS, REUSE EXISTING WATER CONNECTIONS, TERMINATE EXISTING WATER CONNECTIONS, TERMINATE EXISTING SEWER CONNECTIONS, PRIVATE CONSTRUCTION OF PUBLIC FACILITIES

Table with 2 columns: METER INFORMATION, FIRE SYSTEM. Rows include ID, QUANTITY, SIZE, TYPE, USE, FLOW, PRESSURE, PSI, FLOW, PRESSURE, PSI.

METER SIZE: 1/2", 3/4", 1", 1 1/2", 2", 3", 4", 6", 8", 10", 12" METER TYPE: POSITIVE DISPLACEMENT, COMPOUND, ELECTROMAGNETIC, ULTRASONIC, TURBINE

METER USE: DOMESTIC, FIRE COMBINATION TAP C-CORD NUMBER: _____ PWSA PROJECT NUMBER: _____

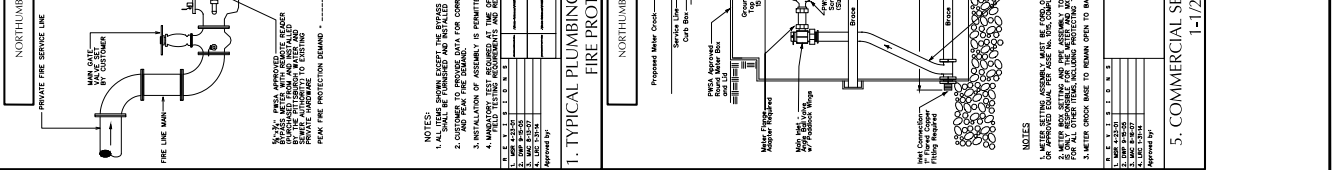
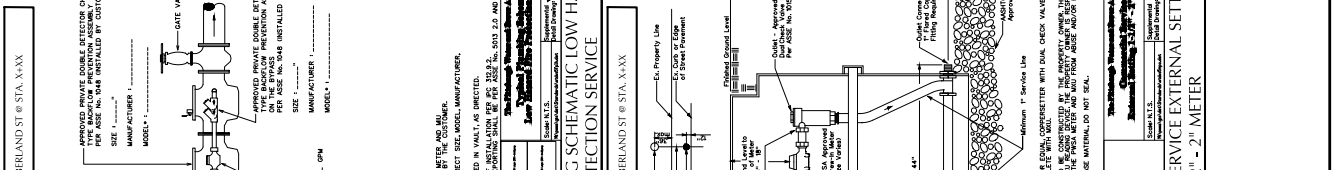
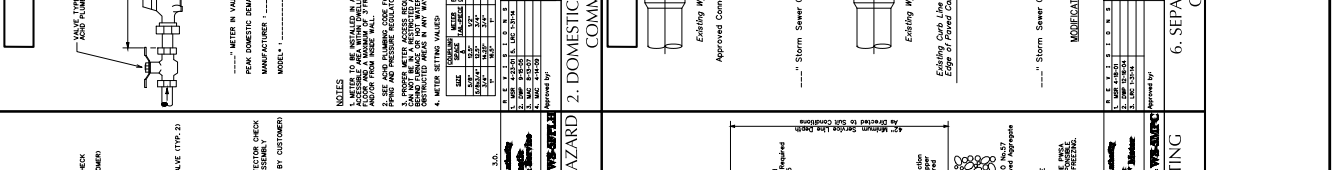
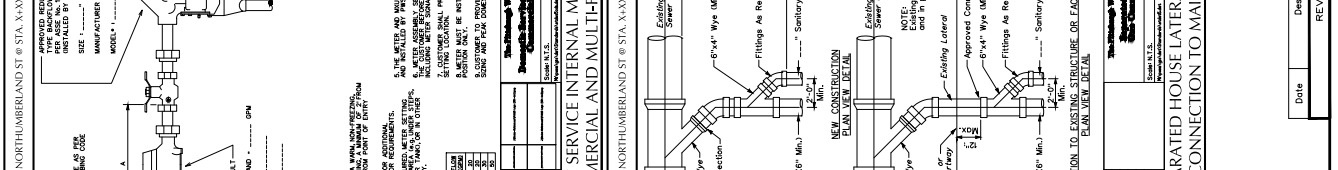
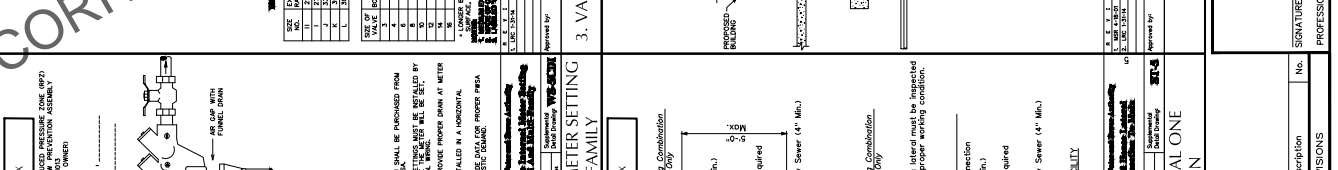
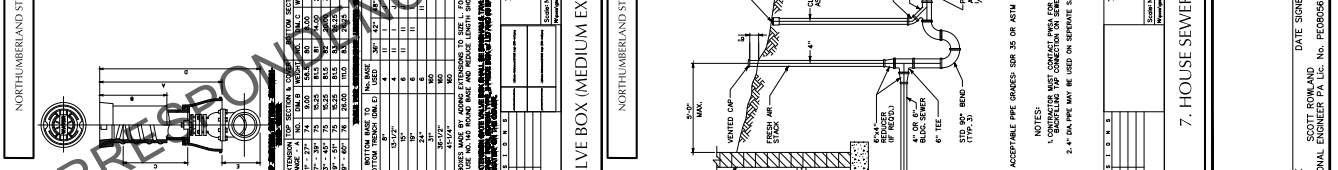
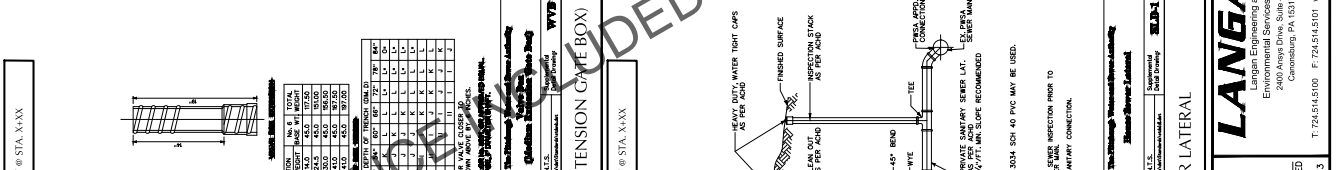
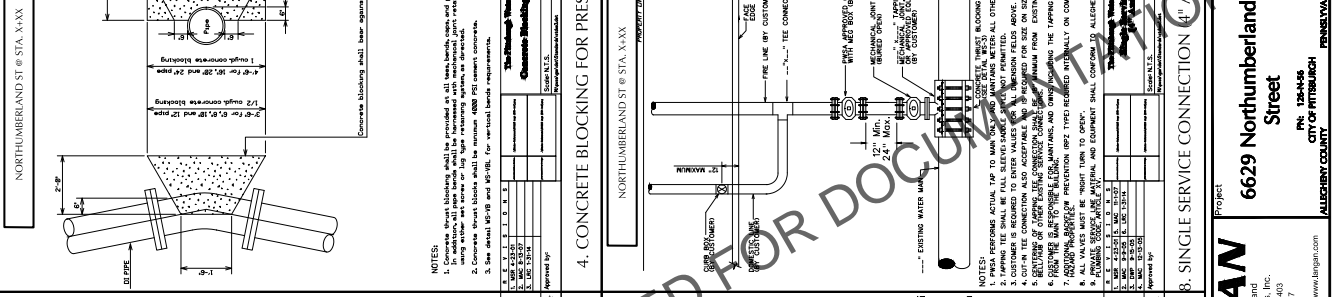
DIRECTOR OF ENGINEERING AND CONSTRUCTION PWSA PROJECT NUMBER: _____

Signature of Approver: _____ Date: _____

Signature of Approver: _____ Date: _____

Signature of Approver: _____ Date: _____

LANGAN Engineering and Environmental Services, Inc. 6629 Northumberland Street, Pittsburgh, PA 15217. Project: PWSA 6629 Northumberland Street Cover Information Cover. Drawing Title: PWSA 6629 Northumberland Street Cover Information Cover.



**APPENDIX A
CALCULATIONS**

CORRESPONDENCE INCLUDED FOR DOCUMENTATION

Date: 12/29/2020

Langan Project Number: 250135301

Calc by: RSG

Check by: BDH

| 6629-6633 Northumberland Street | | | |
|---|-----------------|--|---------------------------------------|
| PROPOSED SEWAGE FLOW ESTIMATION (FOR PWSA PERMITTING) | | | |
| Unit Description | Number of Units | Anticipated Average Rate (GPD/Occupant) ¹ | Anticipated Average Sewage Flow (GPD) |
| 2 Bedroom Condominium | 3 | 400 | 1,200 |
| 3 Bedroom Condominium | 1 | 400 | 400 |
| | | Proposed GPD (Water Supply)= | 1,600 |
| | | Proposed GPD (Sanitary Load) = | 1,600 |
| | | Proposed EDUs² (Water Supply)= | 5.3 |
| | | Proposed EDUs² (Sanitary Load)= | 5.3 |

Notes:

1 – Rate is based on the flow estimate defined in Table 1 of the PWSA developers manual (equivalent to estimates defined in Appendix A of the PA DEP Small Flow Treatment Facilities Manual)

2– EDUs are based on 300 GPD/EDU.

CORRECTED EVIDENCE INCLUDED FOR DOCUMENTATION

**PROPOSED SANITARY LATERAL PIPE CALCULATIONS
6629-6633 NORTHUMBERLAND ST.**

| | |
|------------------------|---|
| Q_{max} | Based on Total Units Discharging |
| Q_{design} | $3.5 * Q_{max}$ |
| Q_{full} | $1.49/n * A_{pipe} * R^{2/3} * S^{1/2}$ |
| Q_{half} | FLOW AT HALF FULL = $0.48 * Q_{full}$ |
| V_{max} | VELOCITY AT 80% FULL = $1.15 * Q_{full} / A_{pipe}$ |
| V_{half} (fps) | VELOCITY OF FLOW AT HALF FULL = $Q_{half} / (A_{pipe} * 0.5)$ |
| PIPE SIZED ACCORDINGLY | CHECKS IF Q_{design} IS LESS THAN Q_{half} |

FROM BUILDING TO EXISTING SYSTEM IN NORTHUMBERLAND ST.

MINIMUM SLOPE WITHIN THIS ENTIRE RUN = 1.0%

| MATERIAL | PVC | Q_{full} , cfs | Q_{full} , gpd | Q_{half} , cfs | Q_{half} , gpd | V_{max} , fps | V_{half} , fps |
|--------------------|--------------|------------------------------|------------------|------------------|------------------|-----------------|------------------|
| LENGTH, ft | 50 | 0.32 | 206,028 | 0.15 | 98,893 | 4.20 | 3.65 |
| DIAMETER, in | 4 | | | | | | |
| SLOPE | 2.00% | PIPE SIZED ACCORDINGLY: TRUE | | | | | |
| n | 0.011 | $V_{max} < 10$ fps: TRUE | | | | | |
| Q_{max} , gpd | 1,600 | $V_{half} > 2$ fps: TRUE | | | | | |
| Q_{design} , gpd | 5,600 | | | | | | |

CORRESPONDENCE INCLUDED FOR DOCUMENTATION

Rob Gehris

From: Flanagan, Thomas <thflanagan@pa.gov>
Sent: Thursday, January 21, 2021 9:31 AM
To: Zach Rinker, P.E.
Cc: Developer_Tap_in_Permits.20014.29_6629_Northumberland_Street@docs.e-builder.net; Rob Gehris; Robert Herring, PE, PMP; Kate Mechler, PE; Barry King, PE, PMP
Subject: RE: [External] Preliminary Determination on the Need for Sewage Planning - 6629 Northumberland Street

Based on the information provided, the Department has determined this project requires sewage planning.

From: Zach Rinker, P.E. <ZRinker@pgh2o.com>
Sent: Thursday, January 21, 2021 8:48 AM
To: Flanagan, Thomas <thflanagan@pa.gov>
Cc: Developer_Tap_in_Permits.20014.29_6629_Northumberland_Street@docs.e-builder.net; Rob Gehris <rgehris@langan.com>; Robert Herring, PE, PMP <RHerring@pgh2o.com>; Kate Mechler, PE <KMechler@pgh2o.com>; Barry King, PE, PMP <BKing@pgh2o.com>
Subject: [External] Preliminary Determination on the Need for Sewage Planning - 6629 Northumberland Street

***ATTENTION:** This email message is from an external sender. Do not open links or attachments from unknown sources. To report suspicious email, forward the message as an attachment to CWOPA_SPAM@pa.gov.*

Tom,

Please refer to the enclosed Preliminary Determination on the Need for Sewage Planning for the 6629 Northumberland Street Project.

Should you have any questions or concerns, please do not hesitate to contact us directly.

Thanks,



Zach Rinker, P.E.
Associate Project Manager
Ext: 5370

Pittsburgh Water and Sewer Authority
Pittsburgh, PA 15222

<https://pgh2o.com>



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Rob Gehris

From: Battistone, Martina <martina.battistone@pittsburghpa.gov>
Sent: Thursday, March 11, 2021 7:05 PM
To: Rob Gehris
Cc: Benjamin Hunter
Subject: Re: SFPM 6629-6633 Northumberland Street
Attachments: COMPLETE COMPONENT_4A_- 6629-6633 Northumberland.pdf

Follow Up Flag: Follow up
Flag Status: Completed

Hi, Rob,

Please see attached for the completed Component 4A. I have forward the SFPM package on to the City Solicitor's Office to prepare a resolution for City Council.

Let me know if you need anything else.

Best,
Marti

From: Rob Gehris <rgehris@langan.com>
Date: Thursday, March 11, 2021 at 10:46 AM
To: Martina Wolf <martina.battistone@pittsburghpa.gov>
Cc: Benjamin Hunter <bhunter@Langan.com>
Subject: SFPM 6629-6633 Northumberland Street

Hi Marti,

I hope everyone at City Planning is doing well and staying healthy.

Please see attached for the Sewage Facilities Planning Module for the proposed development located at 6629-6633 Northumberland Street, Pittsburgh, PA 15201 for your information/ review. Also attached are the pdf and the word document of Component 4A, for your completion.

This project entails the construction of a new 4-unit condominium building, consisting of 2 and 3 bedroom units units.

Please let me know when you receive this – the file size is a bit large, and I'd like to know if it goes through. Also, please advise if you have any questions or comments while completing Component 4A of the module.

Thank you much,
-Rob

Robert Gehris
Senior Staff Engineer

LANGAN

Direct: 724.514.5165
[File Sharing Link](#)

Phone: 724.514.5100 Fax: 724.514.5101

2400 Ansys Drive, Suite 403
Canonsburg, PA 15317-9540
www.langan.com

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CORRESPONDENCE INCLUDED FOR DOCUMENTATION

COUNTY OF



ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

March 12, 2021

Robert Gehris
Langan Engineering and Environmental Services, Inc.
2400 Ansys Drive, Suite 403
Canonsburg, PA 15317

**RE: SEWAGE FACILITIES PLANNING MODULE; ALLEGHENY COUNTY
6629-663 Northumberland Street, City of Pittsburgh**

Dear Mr. Gehris:

Enclosed is a signed copy of Component 4C, County or Joint County Health Department Review, for the above-referenced development. This Planning Module Component was received on March 11, 2021. The project proposes the following:

Project Description:

6629-6633 Northumberland Street. Proposing the construction of a new 4-unit, 4 stories residential building (6633 Northumberland Street) consisting of three 2-bedroom & one 3-bedroom condominiums, hardscape & landscaped areas and keeping the existing single unit-residential structure (6629 Northumberland Street) undisturbed located in the City of Pittsburgh, Allegheny County.

Sewage Flow:

1,600 GPD

Conveyance:

The flow from this site will be conveyed to the Pittsburgh Water and Sewer Authority (PWSA) collection system to ALCOSAN POC M-47 to the Monongahela River interceptor and then to the ALCOSAN Treatment Plant at Woods Run.

Sewer's Owner:

PWSA (collection) and ALCOSAN (interceptor)

Name of Sewage Treatment Plant:

ALCOSAN

Please be advised that a permit must be obtained from the Allegheny County Health Department's (ACHD) Plumbing Section prior to commencing any plumbing work for the proposed project. Plumbing work for which an ACHD Plumbing Permit must be obtained includes any plumbing work done on the site and any sewers, which will not be owned and operated by a municipality or a sewer authority.



DEBRA BOGEN, MD, DIRECTOR
ALLEGHENY COUNTY HEALTH DEPARTMENT
542 FOURTH AVENUE • PITTSBURGH, PA 15219
PHONE (412) 687-ACHD (2243) • FAX (412) 578-8325
WWW.ALLEGHENYCOUNTY.US/HEALTHDEPARTMENT



In addition, it should be noted that the approval of this sewage facilities planning module does not include approval of pipe size and/or type. Approval for pipe size and/or type must be obtained by filing a specific plumbing plan with the ACHD's Plumbing Section. If you should have any questions relative to ACHD's plumbing requirements, you can contact Ivo Miller, Plumbing Program Manager at 412-578-8393.

The ACHD has no objection to the approval of this project. If you have any questions, please call me at 412-578-8046.

Sincerely,



Freddie Fields, M.B.A.
Environmental Health Engineer III
Water Pollution Control & Solid Waste Management

ff/cb
Enclosure

cc: Thomas Flanagan, PA Department of Environmental Protection w/attachment (electronically)
Ivo Miller, ACHD w/attachment (electronically)

CORRESPONDENCE INCLUDED FOR DOCUMENTATION



March 29, 2021

Members of the Board

Corey O'Connor
Chair Person

Rep. Harry Readshaw

Sylvia C. Wilson

Shannah Tharp-Gilliam, Ph.D.

Jack Shea

John Weinstein

Brenda L. Smith

Arletta Scott Williams
Executive Director

William H. Inks, CPA
*Director
Finance & Administration*

Jan M. Oliver
*Director
Regional Conveyance*

Douglas A. Jackson, P.E.
*Director
Operations & Maintenance*

Kimberly N. Kennedy, P.E.
*Director
Engineering & Construction*

Michelle M. Buys, P.E.
*Director
Environmental Compliance*

Jeanne K. Clark
*Director
Governmental Affairs*

Joseph Vallarian
*Director
Communications*

Mr. Benjamin Hunter, P.E., LEED A.P.
Langan Engineering
2400 Ansys Drive, Suite 403
Canonsburg, PA 15317

**Re: 6629-6633 NORTHUMBERLAND STREET
City of Pittsburgh – 14th Ward, Allegheny County
PA DEP Sewage Facilities Planning Module
ALCOSAN Regulator Structure M-47-00**

Dear Mr. Hunter:


We have reviewed the Component 3 Planning Module for the referenced project to be located in the City of Pittsburgh, 14th Ward. The project will generate a peak flow of 1,600 gpd in the ALCOSAN Monongahela River Interceptor and Woods Run Treatment Plant.

The capacity of the ALCOSAN M-47-00 Regulator Structure is approximately 30.3 MGD. The monitored peak dry weather flow is approximately 4.60 MGD. Sufficient dry weather capacity exists for this connection. However, the ALCOSAN Monongahela River Interceptor and the Woods Run Treatment Plant do not have the capacity for the flows generated by tributary communities during wet weather periods. This limitation will be addressed as ALCOSAN implements its Clean Water Plan.

ALCOSAN requests that this letter be made part of the planning module submission. The signed Component 3 Planning Module is attached. The sewers in this project are to be designed as separated sanitary and storm sewers. If you have any questions regarding this matter, please contact me at 412-732-8053.

Sincerely,

ALLEGHENY COUNTY SANITARY AUTHORITY


Shawn P. McWilliams, EIT
Civil Engineer

Attachment

cc: Christina Dean (w/o attachment)
Dan Thornton (w/o attachment)
Michael Lichte (w/o attachment)
Barry King/ PWSA (w/o attachment)
Thomas Flanagan/ PADEP (w/o attachment)
Fred Fields/ ACHD (w/o attachment)

APPENDIX B

Resolution for Plan Revision for New Land Development

Fiscal Impact Statement
Updated 1/29/2020 to satisfy City Code §219.07

| | |
|--|---|
| Department | Law |
| Preparer | Ben Smith |
| Standing Committee Representative | Benjamin Hunter, P.E., LEED A.P. (Langan Engineering) 724-514-5125 |
| Type of Legislation | Other |

Description of Legislation

Jiangyang Zhang and TGY Investment Group have proposed the development of a certain parcel of land identified as the 6629-6633 Northumberland Street, Pittsburgh, PA 15217, Allegheny County, at lot and block 126-N-56, in the Fourteenth Ward of the City of Pittsburgh, Pennsylvania and described in the attached Sewage Facilities Planning Module (the "Planning Module") for land development and proposes that project be served by use of existing connections to the City of Pittsburgh sewage systems; and

The City of Pittsburgh must adopt, and applicant must submit, the Planning Module for land development to the Department of Environmental Protection for its approval as a Plan Revision to the City of Pittsburgh's Official Sewage Facilities Plan.

| | | | | |
|---------------------------------|------------------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Total Cost | \$ 0 | | | |
| Frequency of Expenditure | <input type="checkbox"/> One-Time | | <input type="checkbox"/> Multi-Year | |
| Funding Source | <input type="checkbox"/> Operating | <input type="checkbox"/> Capital | <input type="checkbox"/> Grant | <input type="checkbox"/> Trust Fund |
| Is this item budgeted? | <input type="checkbox"/> Yes | | <input type="checkbox"/> No | |

JDE Account Information

N/A

Additional Operational Costs

N/A

Impact on City Revenue

N/A

If the resolution authorizes a professional services contract, complete this page:

| | | | |
|---|------------------------------|--|---|
| <i>Method of Procurement</i> <i>Select one.</i> | <input type="checkbox"/> RFP | <input type="checkbox"/> Signed Waiver from OMB | <input type="checkbox"/> Amendment to Existing Contract <i>Do not fill out the rest of the form.</i> |
|---|------------------------------|--|---|

Name of Vendor and Award Justification

List the name of the awarded vendor and its qualifications.

Other Respondents

List the other respondents. If there were none, clearly state that.

Selection Criteria

Describe the selection or scoring criteria.

Selection Committee Representation

List the department(s) or bureau(s) represented on the committee. Do not list individual names.

Waiver Justification

If a waiver was granted, explain the justification.

EORC Synopsis

Insert synopsis that was presented.

| | | |
|--|-----------------------------------|---------------------------------------|
| <i>Date Presented at EORC:</i> Insert date. | <input type="checkbox"/> Approved | <input type="checkbox"/> Not Approved |
|--|-----------------------------------|---------------------------------------|

*Per §219.07 of the City Code, you **must** include an electronic copy of the solicitation or your signed waiver with your submission to the Office of Management and Budget.*

Attachments

- *Please attach any additional documents and/or exhibits.*

City of Pittsburgh
Sewer Facilities Planning Module Questionnaire

PROJECT NAME: 6629-6633 Northumberland Street

1) What was the previous permitted use for this property?

Residential

2) What is the proposed use for the property?

Residential

3) How is green stormwater mitigation being integrated into the proposed project?

The proposed project will disturb less than 10,000 square feet of land during construction activities. Per Title 13 of the Pittsburgh Code of Ordinances, post-construction stormwater management is not required for this project. This project is anticipated to represent a minor increase in stormwater runoff; however field measurements and calculations determined the project to not have a negative impact on the capacity of the existing PWSA sewer system.

4) Will the development result in a net positive or net negative change in stormwater flow?

After construction activities are complete, the development will result in a net positive change in stormwater flow.

Resolution No. _____

CITY OF PITTSBURGH

Introduced: Bill No:

Committee: Intergovernmental Affairs Committee Status:

Sponsored by:

Resolution adopting Plan Revision to the City of Pittsburgh's Official Sewage Facilities Plan for the 6629-6633 Northumberland Street Project, located at, 6633 Northumberland Street, Pittsburgh, PA 15217.

WHEREAS, SECTION 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the "Pennsylvania Sewage Facilities Act," as amended, and the rules and regulations of the Pennsylvania Department of Environmental Protection (the "Department") adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, requires the City of Pittsburgh to adopt an Official Sewage Facilities Plan (the "Official Plan") providing for sewage services adequate to prevent contamination of waters of the Commonwealth and/or environmental health hazards from sewage wastes, and to revise said plan whenever it is necessary to determine whether a proposed method of sewage disposal for a new development conforms to a comprehensive program of pollution control and water quality management; and

WHEREAS, TGY Partners and Jiangyang Zhang have proposed the development of certain parcels of land 6629-6633 Northumberland Street, Pittsburgh, PA 15217, Allegheny County, at lot and block 126-N-56 in the 14th Ward of the City of Pittsburgh and described in the attached Sewage Facilities Planning Module (the "Planning Module") for land development and proposes that project be served by a sewer tap-in to the City of Pittsburgh sewage systems; and

WHEREAS, the Pittsburgh Water Sewer Authority, the Allegheny County Sanitary Authority, the City of Pittsburgh Planning Department and the Allegheny County Health Department have reviewed the respective components of the attached Planning Module in regard to each authority/department's expertise and have approved the respective components as explained in the attached Planning Module.

WHEREAS, based upon the approval of the above authorities and departments, the City of Pittsburgh finds that the project described in the attached Planning Module for land development conforms to applicable zoning, subdivision, other municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF PITTSBURGH AS FOLLOWS:

SECTION 1. The City of Pittsburgh hereby adopts and submits to the Department of Environmental Protection for its approval as a Plan Revision to the City of Pittsburgh's Official Sewage Facilities Plan, the above-referenced Planning Module for land development, which is attached hereto as **Exhibit A**.

Said Planning Module includes the 3213-3215 Penn Avenue, 3213-3215 Penn Avenue, Pittsburgh, PA 15201, Allegheny County, at lot and block 25-D-61 and 25-D-68 in the 6th Ward of the City of Pittsburgh.

Finally, that any Ordinance or Resolution or part thereof conflicting with the provisions of this Resolution, is hereby repealed so far as the same affects this Resolution.

Effective Date: _____

Passed in Council: _____

Approved: _____

Recorded in R.B. ___ page _____ in City Clerk's Office.

APPENDIX C

**Component 3, Narrative Description of
Project, Supporting Documentation**



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

Code No.
02001-20-113

SEWAGE FACILITIES PLANNING MODULE

Component 3. Sewage Collection and Treatment Facilities

(Return completed module package to appropriate municipality)

DEP USE ONLY

| DEP CODE # | CLIENT ID # | SITE ID # | APS ID # | AUTH ID # |
|------------|-------------|-----------|----------|-----------|
|------------|-------------|-----------|----------|-----------|

This planning module component is used to fulfill the planning requirements of Act 537 for the following types of projects: (1) a subdivision to be served by sewage collection, conveyance or treatment facilities, (2) a tap-in to an existing collection system with flows on a lot of 2 EDU's or more, or (3) the construction of, or modification to, wastewater collection, conveyance or treatment facilities that will require DEP to issue or modify a Clean Streams Law permit. Planning for any project that will require DEP to issue or modify a permit cannot be processed by a delegated agency. Delegated agencies must send their projects to DEP for final planning approval.

This component, along with any other documents specified in the cover letter, must be completed and submitted to the municipality with jurisdiction over the project site for review and approval. All required documentation must be attached for the Sewage Facilities Planning Module to be complete. Refer to the instructions for help in completing this component.

REVIEW FEES: Amendments to the Sewage Facilities Act established fees to be paid by the developer for review of planning modules for land development. These fees may vary depending on the approving agency for the project (DEP or delegated local agency). Please see section R and the instructions for more information on these fees.

NOTE: All projects must complete Sections A through I, and Sections O through R. Complete Sections J, K, L, M and/or N if applicable or marked .

A. PROJECT INFORMATION (See Section A of instructions)

1. Project Name 6629-6633 Northumberland Street

2. Brief Project Description TGY Partners is proposing the construction of a multi-unit residential building to be located at 6633 Northumberland Street. The proposed building will contain three 2-bedroom condominiums and one 3-bedroom condominium. Site improvements will include the new residential building, hardscape and landscaped areas. The project is generally bound by Northumberland St. to the south, Pittsburgh Parcel 126-N-60 to the east, Pittsburgh Parcel 126-N-103 to the north, and the existing on-lot house at 6629 Northumberland St. to the east. The proposed sanitary service will be provided by a proposed 4-inch PVC lateral to connect to an existing 15-inch PWSA sewer in Northumberland Street. This 15-inch sewer flows to the PWSA main in S Dallas Avenue and ultimately conveys flows via the Monongahela Interceptor to the ALCOSAN Wastewater Treatment Facility and discharge to the Ohio River.

B. CLIENT (MUNICIPALITY) INFORMATION (See Section B of instructions)

| Municipality Name | County | City | Boro | Twp |
|---|------------------------|-------------------------------------|--------------------------|--------------------------|
| City of Pittsburgh | Allegheny | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Municipality Contact Individual - Last Name | First Name | MI | Suffix | Title |
| Battistone | Martina | | | |
| Additional Individual Last Name | First Name | MI | Suffix | Title |
| | | | | |
| Municipality Mailing Address Line 1 | Mailing Address Line 2 | | | |
| Department of City Planning | 200 Ross St. Suite #4 | | | |
| Address Last Line -- City | State | ZIP+4 | | |

| | | |
|--|----------------|------------------|
| Pittsburgh | PA | 15219 |
| Area Code + Phone + Ext. 412-255-2516 | FAX (optional) | Email (optional) |

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name
6629-6633 Northumberland Street

| | |
|--|----------------------|
| Site Location Line 1 6633 Northumberland Street | Site Location Line 2 |
|--|----------------------|

| | | | | |
|---|-------------|----------------|-----------------------|-------------------------|
| Site Location Last Line -- City Pittsburgh | State PA | ZIP+4 15201 | Latitude 40.461163 | Longitude -79.969833 |
|---|-------------|----------------|-----------------------|-------------------------|

Detailed Written Directions to Site Take on Rt-28 North, then take Exit 6 for the Highland Park Bridge. Cross the bridge and keep left at the fork to merge onto Rt-8/ Washington Blvd. Turn right onto Penn Ave, then a left onto S. Dallas Ave. Turn right onto Northumberland St. The project site will be on the right, between S Dallas Ave and Barnsdale Street.

Description of Site The site is currently composed of a vegetated lawn area, paved drive aisle, and a garage to be abandoned. A two story house also exists on the subject parcel at 6629 Northumberland; however, this existing house is not to be disturbed during construction, and is not being considered in the project sewage planning contained herein.

Site Contact (Developer/Owner)

| | | | | | |
|--------------------|------------------------|----|--------|-------|------|
| Last Name Zhang | First Name Jianyang | MI | Suffix | Phone | Ext. |
|--------------------|------------------------|----|--------|-------|------|

| | |
|-----------------------------|--|
| Site Contact Title Owner | Site Contact Firm (if none, leave blank) TGY Partners |
|-----------------------------|--|

| | |
|-----|--------------------------------|
| FAX | Email yang@tgy-partners.com |
|-----|--------------------------------|

| | |
|--|------------------------|
| Mailing Address Line 1 PO Box 81503 | Mailing Address Line 2 |
|--|------------------------|

| | | |
|---|-------------|---------------------|
| Mailing Address Last Line -- City Pittsburgh | State PA | ZIP+4 15217-0303 |
|---|-------------|---------------------|

D. PROJECT CONSULTANT INFORMATION (See Section D of instructions)

| | | | |
|----------------------|---------------------|----|--------|
| Last Name Rowland | First Name Scott | MI | Suffix |
|----------------------|---------------------|----|--------|

| | |
|-----------------------------------|---|
| Title Principal/Vice President | Consulting Firm Name Langan Engineering & Environmental Services, Inc. |
|-----------------------------------|---|

| | |
|--|-------------------------------------|
| Mailing Address Line 1 2400 Ansys Drive | Mailing Address Line 2 Suite 403 |
|--|-------------------------------------|

| | | | |
|---|-------------|----------------|----------------|
| Address Last Line -- City Canonsburg | State PA | ZIP+4 15317 | Country USA |
|---|-------------|----------------|----------------|

| | | | |
|------------------------------|-----------------------------------|------|---------------------------------|
| Email srowland@langan.com | Area Code + Phone 724-514-5123 | Ext. | Area Code + FAX 724-514-5101 |
|------------------------------|-----------------------------------|------|---------------------------------|

E. AVAILABILITY OF DRINKING WATER SUPPLY

- The project will be provided with drinking water from the following source: (Check appropriate box)
- Individual wells or cisterns.
 - A proposed public water supply.
 - An existing public water supply.

If existing public water supply is to be used, provide the name of the water company and attach documentation from the water company stating that it will serve the project.

Name of water company: PWSA

F. PROJECT NARRATIVE (See Section F of instructions)

A narrative has been prepared as described in Section F of the instructions and is attached.

The applicant may choose to include additional information beyond that required by Section F of the instructions.

G. PROPOSED WASTEWATER DISPOSAL FACILITIES (See Section G of instructions)

Check all boxes that apply, and provide information on collection, conveyance and treatment facilities and EDU's served. This information will be used to determine consistency with Chapter 93 (relating to wastewater treatment requirements).

1. COLLECTION SYSTEM

a. Check appropriate box concerning collection system

- New collection system Pump Station Force Main
 Grinder pump(s) Extension to existing collection system Expansion of existing facility

Clean Streams Law Permit Number _____

b. Answer questions below on collection system

Number of EDU's and proposed connections to be served by collection system. EDU's 4

Connections 1

Name of:

existing collection or conveyance system Northumberland Street 15-inch VCP Combined Sewer
owner Pittsburgh Water and Sewer Authority (PWSA)

existing interceptor Monogahela Interceptor
owner Allegheny County Sanitary Authority (ALCOSAN)

2. WASTEWATER TREATMENT FACILITY

Check all boxes that apply, and provide information on collection, conveyance and treatment facilities and EDU's served. This information will be used to determine consistency with Chapter(s) 91 (relating to general provisions), 92 (relating to national Pollution Discharge Elimination System permitting, monitoring and compliance) and 93 (relating to water quality standards).

a. Check appropriate box and provide requested information concerning the treatment facility

- New facility Existing facility Upgrade of existing facility Expansion of existing facility

Name of existing facility Allegheny County Sanitary Authority (ALCOSAN) Wastewater Treatment Facility

NPDES Permit Number for existing facility PA 0025984

Clean Streams Law Permit Number PA 0025984

Location of discharge point for a new facility. Latitude 40.476720 Longitude -80.042911

b. The following certification statement must be completed and signed by the wastewater treatment facility permittee or their representative.

As an authorized representative of the permittee, I confirm that the ALCOSAN
(Name from above) sewage treatment facilities can accept sewage flows from this project without adversely affecting the facility's ability to achieve all applicable technology and water quality based effluent limits (see Section I) and conditions contained in the NPDES permit identified above.

Name of Permittee Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent SHAWN P. MCWILLIAMS, EIT

Agent Signature Shawn P. McWilliams Date 3/29/2021

(Also see Section I. 4.)

G. PROPOSED WASTEWATER DISPOSAL FACILITIES (Continued)

3. PLOT PLAN

The following information is to be submitted on a plot plan of the proposed subdivision.

- a. Existing and proposed buildings.
- b. Lot lines and lot sizes.
- c. Adjacent lots.
- d. Remainder of tract.
- e. Existing and proposed sewerage facilities. Plot location of discharge point, land application field, spray field, COLDS, or LVCOLDS if a new facility is proposed.
- f. Show tap-in or extension to the point of connection to existing collection system (if applicable).
- g. Existing and proposed water supplies and surface water (wells, springs, ponds, streams, etc.)
- h. Existing and proposed rights-of-way.
- i. Existing and proposed buildings, streets, roadways, access roads, etc.
- j. Any designated recreational or open space area.
- k. Wetlands - from National Wetland Inventory Mapping and USGS Hydric Soils Mapping.
- l. Flood plains or Flood prone areas, floodways, (Federal Flood Insurance Mapping)
- m. Prime Agricultural Land.
- n. Any other facilities (pipelines, power lines, etc.)
- o. Orientation to north.
- p. Locations of all site testing activities (soil profile test pits, slope measurements, permeability test sites, background sampling, etc. (if applicable).
- q. Soils types and boundaries when a land based system is proposed.
- r. Topographic lines with elevations when a land based system is proposed

4. WETLAND PROTECTION

YES NO

- a. Are there wetlands in the project area? If yes, ensure these areas appear on the plot plan as shown in the mapping or through on-site delineation.
- b. Are there any construction activities (encroachments, or obstructions) proposed in, along, or through the wetlands? If yes, Identify any proposed encroachments on wetlands and identify whether a General Permit or a full encroachment permit will be required. If a full permit is required, address time and cost impacts on the project. Note that wetland encroachments should be avoided where feasible. Also note that a feasible alternative **MUST BE SELECTED** to an identified encroachment on an exceptional value wetland as defined in Chapter 105. Identify any project impacts on streams classified as HQ or EV and address impacts of the permitting requirements of said encroachments on the project.

5. PRIME AGRICULTURAL LAND PROTECTION

YES NO

- Will the project involve the disturbance of prime agricultural lands?
If yes, coordinate with local officials to resolve any conflicts with the local prime agricultural land protection program. The project must be consistent with such municipal programs before the sewage facilities planning module package may be submitted to DEP.
If no, prime agricultural land protection is not a factor to this project.
- Have prime agricultural land protection issues been settled?

6. HISTORIC PRESERVATION ACT

YES NO

- Sufficient documentation is attached to confirm that this project is consistent with DEP Technical Guidance 012-0700-001 *Implementation of the PA State History Code* (available online at the DEP website at www.dep.state.pa.us, select "subject" then select "technical guidance"). As a minimum this includes copies of the completed Cultural Resources Notice (CRN), a return receipt for its submission to the PHMC and the PHMC review letter.

7. PROTECTION OF RARE, ENDANGERED OR THREATENED SPECIES

Check one:

- The "Pennsylvania Natural Diversity Inventory (PNDI) Project Environmental Review Receipt" resulting from my search of the PNDI database and all supporting documentation from jurisdictional agencies (when necessary) is/are attached.
- A completed "Pennsylvania Natural Diversity Inventory (PNDI) Project Planning & Environmental Review Form," (PNDI Form) available at www.naturalheritage.state.pa.us, and all required supporting documentation is attached. I request DEP staff to complete the required PNDI search for my project. I realize that my planning module will be considered incomplete upon submission to the Department and that the DEP review will not begin, and that processing of my planning module will be delayed, until a "PNDI Project Environmental Review Receipt" and all supporting documentation from jurisdictional agencies (when necessary) is/are received by DEP.

Applicant or Consultant Initials _____.

H. ALTERNATIVE SEWAGE FACILITIES ANALYSIS (See Section H of instructions)

- An alternative sewage facilities analysis has been prepared as described in Section H of the attached instructions and is attached to this component.

The applicant may choose to include additional information beyond that required by Section H of the attached instructions.

I. COMPLIANCE WITH WATER QUALITY STANDARDS AND EFFLUENT LIMITATIONS (See Section I of instructions) (Check and complete all that apply.)

1. Waters designated for Special Protection

- The proposed project will result in a new or increased discharge into special protection waters as identified in Title 25, Pennsylvania Code, Chapter 93. The Social or Economic Justification (SEJ) required by Section 93.4c. is attached.

2. Pennsylvania Waters Designated As Impaired

- The proposed project will result in a new or increased discharge of a pollutant into waters that DEP has identified as being impaired by that pollutant. A pre-planning meeting was held with the appropriate DEP regional office staff to discuss water quality based discharge limitations.

3. Interstate and International Waters

- The proposed project will result in a new or increased discharge into interstate or international waters. A pre-planning meeting was held with the appropriate DEP regional office staff to discuss effluent limitations necessary to meet the requirements of the interstate or international compact.

4. Tributaries To The Chesapeake Bay

- The proposed project result in a new or increased discharge of sewage into a tributary to the Chesapeake Bay. This proposal for a new sewage treatment facility or new flows to an existing facility includes total nitrogen and total phosphorus in the following amounts: _____ pounds of TN per year, and _____ pounds of TP per year. Based on the process design and effluent limits, the total nitrogen treatment capacity of the wastewater treatment facility is _____ pounds per year and the total phosphorus capacity is _____ pounds per year as determined by the wastewater treatment facility permittee. The permittee has determined that the additional TN and TP to be contributed by this project (as modified by credits and/or offsets to be provided) will not cause the discharge to exceed the annual total mass limits for these parameters. Documentation of compliance with nutrient allocations is attached.

Name of Permittee Agency, Authority, Municipality _____

Initials of Responsible Agent (See Section G 2.b) _____

See *Special Instructions* (Form 3800-FM-BPNPSM0353-1) for additional information on Chesapeake Bay watershed requirements.

J. CHAPTER 94 CONSISTENCY DETERMINATION (See Section J of instructions)

Projects that propose the use of existing municipal collection, conveyance or wastewater treatment facilities, or the construction of collection and conveyance facilities to be served by existing municipal wastewater treatment facilities must be consistent with the requirements of Title 25, Chapter 94 (relating to Municipal Wasteload Management). If not previously included in Section F, include a general map showing the path of the sewage to the treatment facility. If more than one municipality or authority will be affected by the project, please obtain the information required in this section for each. Additional sheets may be attached for this purpose.

1. Project Flows 1600 gpd
2. Total Sewage Flows to Facilities (pathway from point of origin through treatment plant)

When providing "treatment facilities" sewage flows, use Annual Average Daily Flow for "average" and Maximum Monthly Average Daily Flow for "peak" in all cases. For "peak flows" in "collection" and "conveyance" facilities, indicate whether these flows are "peak hourly flow" or "peak instantaneous flow" and how this figure was derived (i.e., metered, measured, estimated, etc.).

- a. Enter average and peak sewage flows for each proposed or existing facility as designed or permitted.
- b. Enter the average and peak sewage flows for the most restrictive sections of the existing sewage facilities.
- c. Enter the average and peak sewage flows, projected for 5 years (2 years for pump stations) through the most restrictive sections of the existing sewage facilities. Include existing, proposed (this project) and future project (other approved projects) flows.

To complete the table, refer to the instructions, Section J.

| | a. Design and/or Permitted Capacity (gpd) | | b. Present Flows (gpd) | | c. Projected Flows in 5 years (gpd) (2 years for P.S.) | |
|-------------------|---|-----------|------------------------|-----------|---|-----------|
| | Average | Peak | Average | Peak | Average | Peak |
| Collection | 1269335 | 4442674 | 135532 | 474364 | 142789 | 499762 |
| Conveyance | -- | 30.3 MGD | 3.45 MGD | 4.60 MGD | 3.49 MGD | 4.65 MGD |
| Treatment | 209.3 MGD | 250.0 MGD | 209.3 MGD | 250.0 MGD | 219.7 MGD | 295.0 MGD |

3. Collection and Conveyance Facilities

The questions below are to be answered by the sewer authority, municipality, or agency responsible for completing the Chapter 94 report for the collection and conveyance facilities. These questions should be answered in coordination with the latest Chapter 94 annual report and the above table. The individual(s) signing below must be legally authorized to make representation for the organization.

YES NO

- a. YES NO This project proposes sewer extensions or tap-ins. Will these actions create a hydraulic overload within five years on any existing collection or conveyance facilities that are part of the system?

If yes, this sewage facilities planning module will not be accepted for review by the municipality, delegated local agency and/or DEP until all inconsistencies with Chapter 94 are resolved or unless there is an approved Corrective Action Plan (CAP) granting an allocation for this project. A letter granting allocations to this project under the CAP must be attached to the module package.

If no, a representative of the sewer authority, municipality, or agency responsible for completing the Chapter 94 report for the collection and conveyance facilities must sign below to indicate that the collection and conveyance facilities have adequate capacity and are able to provide service to the proposed development in accordance with both §71.53(d)(3) and Chapter 94 requirements and that this proposal will not affect that status.

b. Collection System

Name of Agency, Authority, Municipality PWSA

Name of Responsible Agent Barry King, PE, PMP

Agent Signature  Date 3/10/2021

J. CHAPTER 94 CONSISTENCY DETERMINATION (See Section J of instructions)

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Shawn P. McWilliams, EIT

Agent Signature *Shawn P. McWilliams*

Date 3/29/2021

4. Treatment Facility

The questions below are to be answered by a representative of the facility permittee in coordination with the information in the table and the latest Chapter 94 report. The individual signing below must be legally authorized to make representation for the organization.

YES NO *ALCOSAN IS UNDER A CONSENT DECREE TO ADDRESS WET WEATHER OVERFLOWS.

- a. This project proposes the use of an existing wastewater treatment plant for the disposal of sewage. Will this action create a hydraulic or organic overload within 5 years at that facility?

If yes, this planning module for sewage facilities will not be reviewed by the municipality, delegated local agency and/or DEP until this inconsistency with Chapter 94 is resolved or unless there is an approved CAP granting an allocation for this project. A letter granting allocations to this project under the CAP must be attached to the planning module.

If no, the treatment facility permittee must sign below to indicate that this facility has adequate treatment capacity and is able to provide wastewater treatment services for the proposed development in accordance with both §71.53(d)(3) and Chapter 94 requirements and that this proposal will not impact that status.

b. Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Shawn P. McWilliams, EIT

Agent Signature *Shawn P. McWilliams*

Date 3/29/2021

K. TREATMENT AND DISPOSAL OPTIONS (See Section K of instructions)

This section is for land development projects that propose construction of wastewater treatment facilities. Please note that, since these projects require permits issued by DEP, these projects may **NOT** receive final planning approval from a delegated local agency. Delegated local agencies must send these projects to DEP for final planning approval.

Check the appropriate box indicating the selected treatment and disposal option.

- 1. Spray irrigation (other than individual residential spray systems (IRSIS)) or other land application is proposed, and the information requested in Section K.1. of the planning module instructions are attached.
- 2. Recycle and reuse is proposed and the information requested in Section K-2 of the planning module instructions is attached.
- 3. A discharge to a dry stream channel is proposed, and the information requested in Section K.3. of the planning module instructions are attached.
- 4. A discharge to a perennial surface water body is proposed, and the information requested in Section K.4. of the planning module instructions are attached.

L. PERMEABILITY TESTING (See Section L of instructions)

- The information required in Section L of the instructions is attached.

M. PRELIMINARY HYDROGEOLOGIC STUDY (See Section M of instructions)

- The information required in Section M of the instructions is attached.

N. DETAILED HYDROGEOLOGIC STUDY (See Section N of instructions)

The detailed hydrogeologic information required in Section N. of the instructions is attached.

O. SEWAGE MANAGEMENT (See Section O of instructions)

(1-3 for completion by the developer(project sponser), 4-5 for completion by the non-municipal facility agent and 6 for completion by the municipality)

Yes No

1. Is connection to, or construction of, a DEP permitted, non-municipal sewage facility or a local agency permitted, community onlot sewage facility proposed.

If Yes, respond to the following questions, attach the supporting analysis, and an evaluation of the options available to assure long-term proper operation and maintenance of the proposed non-municipal facilities. If No, skip the remainder of Section O.

2. Project Flows _____ gpd

Yes No

3. Is the use of nutrient credits or offsets a part of this project?

If yes, attach a letter of intent to purchase the necessary credits and describe the assurance that these credits and offsets will be available for the remaining design life of the non-municipal sewage facility;

(For completion by non-municipal facility agent)

4. Collection and Conveyance Facilities

The questions below are to be answered by the organization/individual responsible for the non-municipal collection and conveyance facilities. The individual(s) signing below must be legally authorized to make representation for the organization.

Yes No

- a. If this project proposes sewer extensions or tap-ins, will these actions create a hydraulic overload on any existing collection or conveyance facilities that are part of the system?

If yes, this sewage facilities planning module will not be accepted for review by the municipality, delegated local agency and/or DEP until this issue is resolved.

If no, a representative of the organization responsible for the collection and conveyance facilities must sign below to indicate that the collection and conveyance facilities have adequate capacity and are able to provide service to the proposed development in accordance with Chapter 71 §71.53(d)(3) and that this proposal will not affect that status.

- b. Collection System

Name of Responsible Organization _____

Name of Responsible Agent _____

Agent Signature _____

Date _____

- c. Conveyance System

Name of Responsible Organization _____

Name of Responsible Agent _____

Agent Signature _____

Date _____

5. Treatment Facility

The questions below are to be answered by a representative of the facility permittee. The individual signing below must be legally authorized to make representation for the organization.

Yes No

- a. If this project proposes the use of an existing non-municipal wastewater treatment plant for the disposal of sewage, will this action create a hydraulic or organic overload at that facility?

If yes, this planning module for sewage facilities will not be reviewed by the municipality, delegated local agency and/or DEP until this issue is resolved.

If no, the treatment facility permittee must sign below to indicate that this facility has adequate treatment capacity and is able to provide wastewater treatment services for the proposed development in accordance with §71.53(d)(3) and that this proposal will not impact that status.

- b. Name of Facility _____
Name of Responsible Agent _____
Agent Signature _____
Date _____

(For completion by the municipality)

6. The **SELECTED OPTION** necessary to assure long-term proper operation and maintenance of the proposed non-municipal facilities is clearly identified with documentation attached in the planning module package.

P. PUBLIC NOTIFICATION REQUIREMENT (See Section P of instructions)

This section must be completed to determine if the applicant will be required to publish facts about the project in a newspaper of general circulation to provide a chance for the general public to comment on proposed new land development projects. This notice may be provided by the applicant or the applicant's agent, the municipality or the local agency by publication in a newspaper of general circulation within the municipality affected. Where an applicant or an applicant's agent provides the required notice for publication, the applicant or applicant's agent shall notify the municipality or local agency and the municipality and local agency will be relieved of the obligation to publish. The required content of the publication notice is found in Section P of the instructions.

To complete this section, each of the following questions must be answered with a "yes" or "no". Newspaper publication is required if any of the following are answered "yes".

Yes No

1. Does the project propose the construction of a sewage treatment facility ?
2. Will the project change the flow at an existing sewage treatment facility by more than 50,000 gallons per day?
3. Will the project result in a public expenditure for the sewage facilities portion of the project in excess of \$100,000?
4. Will the project lead to a major modification of the existing municipal administrative organizations within the municipal government?
5. Will the project require the establishment of *new* municipal administrative organizations within the municipal government?
6. Will the project result in a subdivision of 50 lots or more? (onlot sewage disposal only)
7. Does the project involve a major change in established growth projections?
8. Does the project involve a different land use pattern than that established in the municipality's Official Sewage Plan?

P. PUBLIC NOTIFICATION REQUIREMENT cont'd. (See Section P of instructions)

9. Does the project involve the use of large volume onlot sewage disposal systems (Flow > 10,000 gpd)?
10. Does the project require resolution of a conflict between the proposed alternative and consistency requirements contained in §71.21(a)(5)(i), (ii), (iii)?
11. Will sewage facilities discharge into high quality or exceptional value waters?
- Attached is a copy of:
- the public notice,
 - all comments received as a result of the notice,
 - the municipal response to these comments.
- No comments were received. A copy of the public notice is attached.

Q. FALSE SWEARING STATEMENT (See Section Q of instructions)

I verify that the statements made in this component are true and correct to the best of my knowledge, information and belief. I understand that false statements in this component are made subject to the penalties of 18 PA C.S.A. §4904 relating to unsworn falsification to authorities.

Benjamin Hunter, P.E., LEED A.P.
Name (Print)



Signature

Senior Project Manager
Title

February 26, 2021
Date

2400 Ansys Drive, Suite 403
Canonsburg, PA 15317
Address

724-514-5125
Telephone Number

R. REVIEW FEE (See Section R of instructions)

The Sewage Facilities Act establishes a fee for the DEP planning module review. DEP will calculate the review fee for the project and invoice the project sponsor **OR** the project sponsor may attach a self-calculated fee payment to the planning module prior to submission of the planning package to DEP. (Since the fee and fee collection procedures may vary if a "delegated local agency" is conducting the review, the project sponsor should contact the "delegated local agency" to determine these details.) Check the appropriate box.

- I request DEP calculate the review fee for my project and send me an invoice for the correct amount. I understand DEP's review of my project will not begin until DEP receives the correct review fee from me for the project.
- I have calculated the review fee for my project using the formula found below and the review fee guidance in the instructions. I have attached a check or money order in the amount of \$200.00 payable to "Commonwealth of PA, DEP". Include DEP code number on check. I understand DEP will not begin review of my project unless it receives the fee and determines the fee is correct. If the fee is incorrect, DEP will return my check or money order, send me an invoice for the correct amount. I understand DEP review will NOT begin until I have submitted the correct fee.
- I request to be exempt from the DEP planning module review fee because this planning module creates **only** one new lot and is the **only** lot subdivided from a parcel of land as that land existed on December 14, 1995. I realize that subdivision of a second lot from this parcel of land shall disqualify me from this review fee exemption. I am furnishing the following deed reference information in support of my fee exemption.

County Recorder of Deeds for _____ County, Pennsylvania

Deed Volume _____ Book Number _____
Page Number _____ Date Recorded _____

R. REVIEW FEE (continued)

Formula:

1. For a new collection system (with or without a Clean Streams Law Permit), a collection system extension, or individual tap-ins to an existing collection system use this formula.

$$\#4 \text{ _____ Lots (or EDUs) X } \$50.00 = \$ \underline{200.00}$$

The fee is based upon:

- The number of lots created or number of EDUs whichever is higher.
- For community sewer system projects, one EDU is equal to a sewage flow of 400 gallons per day.

2. For a surface or subsurface discharge system, use the appropriate one of these formulae.

- A. A new surface discharge greater than 2000 gpd will use a flat fee:

\$ 1,500 per submittal (non-municipal)
\$ 500 per submittal (municipal)

- B. An increase in an existing surface discharge will use:

$$\# \text{ _____ Lots (or EDUs) X } \$35.00 = \$ \text{ _____}$$

to a maximum of \$ 1,500 per submittal (non-municipal) or \$ 500 per submittal (municipal)

The fee is based upon:

- The number of lots created or number of EDUs whichever is higher.
- For community sewage system projects one EDU is equal to a sewage flow of 400 gallons per day.
- For non-single family residential projects, EDUs are calculated using projected population figures

- C. A sub-surface discharge system that requires a permit under The Clean Streams Law will use a flat fee:

\$ 1,500 per submittal (non-municipal)
\$ 500 per submittal (municipal)

NARRATIVE DESCRIPTION OF PROJECT

SECTION F SEWAGE FACILITIES PLANNING MODULE COMPONENT 3

Re: Project Narrative
6629-6633 Northumberland Street
City of Pittsburgh, Allegheny County, Pennsylvania
Langan Project No.: 250135301

The project site is located in the Squirrel Hill North neighborhood of the City of Pittsburgh, in the RM-M, Multi-unit Residential Moderate Density, Zoning District within the City of Pittsburgh, Allegheny County, Pennsylvania. TGY Partners is proposing to construct a 4-story residential building with a total of four multi-bedroom condominiums. Hardscape and landscape improvements are also included as a part of this project. The proposed project will be owned and operated by Jiangyang Zhang and TGY Partners. The project site area is approximately 0.20 acres composed of City of Pittsburgh lot 126-N-56.

The project proposes use of a proposed, private 4-inch gravity sewer lateral for the proposed building that will tie into the existing 15-inch combined sewer owned by PWSA and located in Northumberland Street. This existing 15-inch combined sewer eventually connects to the Monongahela Interceptor on the north bank of the Monongahela River. Sewage will then be conveyed and treated by Allegheny County Sanitary Authority (ALCOSAN) Wastewater Treatment Facility.

The existing site has an estimated combined sanitary sewage flow of 0 gallons per day. Following the proposed development, the building will have an estimated combined sanitary sewage flow of 1,600 gallons per day. The proposed increase in combined sanitary sewage flow as a result of the proposed improvements is 1,600 gallons per day (4 EDUs). A reference for the approximate sewage flow for the proposed development can be found within Appendix C. The proposed lateral will remain private and will not create any undue financial burdens to the City of Pittsburgh, PWSA, or ALCOSAN.

Water service will ultimately be provided by Pittsburgh Water and Sewer Authority (PWSA). Water service to this site will be via a 4-inch fire service and a 2-inch domestic service teeing off the 4-inch fire service. The 4-inch fire service will connect to an existing 6-inch water main located in Northumberland Street and operated by PWSA.

The existing site has an estimated water demand of 0 gallons per day. Following the proposed development, the building will have an estimated water demand of 1,600 gallons per day. The proposed increase in water demand as a result of the proposed improvements is 1,600 gallons per day. The existing municipal system is expected to adequately meet proposed demands. A copy of the water availability letter from PWSA can be found in Appendix C.

Section J of Component 3 was completed using the calculation methodology and procedures outlined by the PWSA Developer's Manual, revised April 24th, 2020. Method #1 Peak Flow Measurement from the Developer's Manual was implemented to estimate the Present Peak

Flow is based on peak flow sampling conducted at the most limited capacity sewer (via PWSA manhole MH025D013) on January 27, 2021 between 6am and 8am. A summary of the flow sampling can be found in Appendix C under Anticipated Flow Reference. The most limited capacity sewer was determined from PWSA data and an assumed slope of 2.00%. For consistency with the PWSA Developer's Manual and the PADEP Domestic Wastewater Facilities Manual, a sewer slope of 1.50% – the minimum allowable design slope for a 15-inch sewer – was utilized for existing flow estimation. This pipe capacity information was used in conjunction with Manning's Equation to estimate the Peak Design Capacity, and a Peak Factor of 3.5 was used to estimate the Present Average Dry Flow and Average Design Capacity. The Projected Peak Flow was calculated by multiplying the sum of the Present Peak Flow and the Anticipated Flow Contribution for the project by a factor of 1.05 to estimate the projected flow in 5 years. The Projected Average Flow was calculated by once again dividing the Projected Peak Flow by the Peak Factor of 3.5. Based on these calculations, it has been determined that the anticipated flow contribution for the proposed project will not create undue stress on the existing PWSA system's capacity.

**ANTICIPATED SEWAGE
FLOW REFERENCE**

Date: 12/29/2020
 Langan Project Number: 250135301
 Calc by: RSG
 Check by: BDH

| 6629-6633 Northumberland Street | | | |
|---|------------------------|--|--|
| PROPOSED SEWAGE FLOW ESTIMATION (FOR DEP PERMITTING) | | | |
| Unit Description | Number of Units | Anticipated Average Rate (GPD/Occupant)¹ | Anticipated Average Sewage Flow (GPD) |
| 2 Bedroom Condominium | 3 | 400 | 1,200 |
| 3 Bedroom Condominium | 1 | 400 | 400 |
| Proposed GPD (Water Supply)= | | | 1,600 |
| Proposed GPD (Sanitary Load) = | | | 1,600 |
| Existing GPD (Sanitary Load)= | | | 0 |
| Net GPD (Sanitary Load)= | | | 1,600 |
| Total Proposed EDUs² (Sanitary Load)= | | | 4 |
| Net Proposed EDUs² (Sanitary Load)= | | | 4 |

Notes:

1 – Rate is based on the flow estimate defined in Table 1 of the PWSA developers manual (equivalent to estimates defined in Appendix A of the PA DEP Small Flow Treatment Facilities Manual)

2– EDUs are based on 400 GPD/EDU.

DRAWING INCLUDED FOR REFERENCE

Residential Development
4 Dwelling Units

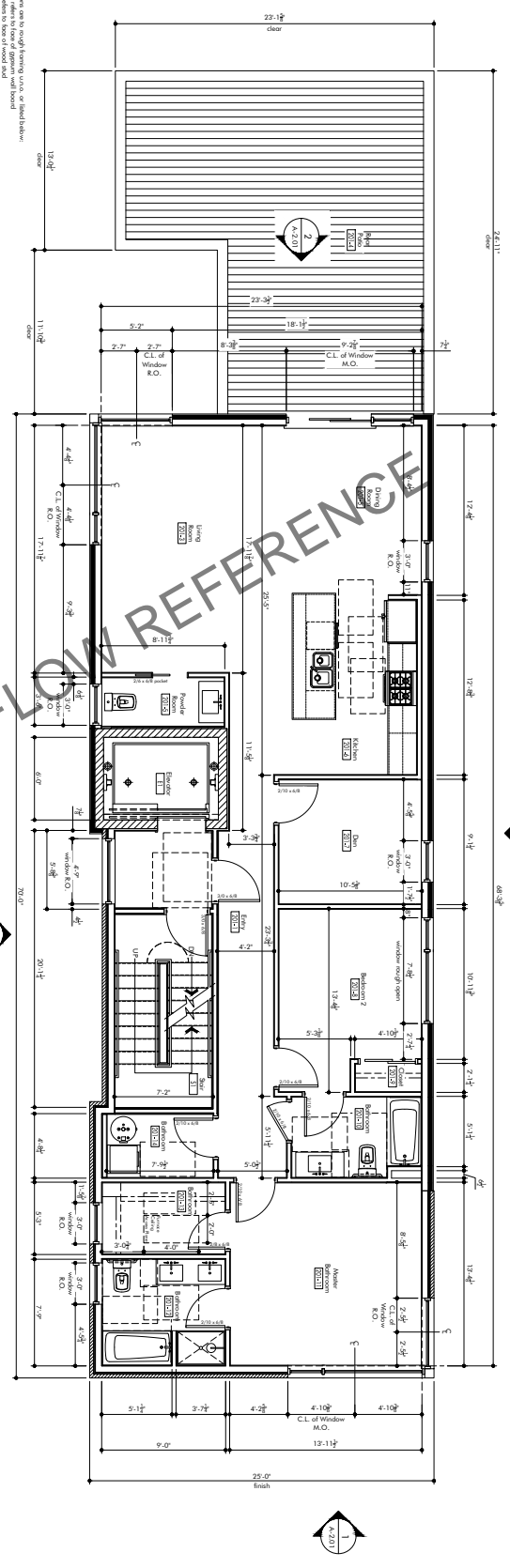
6633 Northumberland Street
Pittsburgh, PA 15217

September 30, 2020



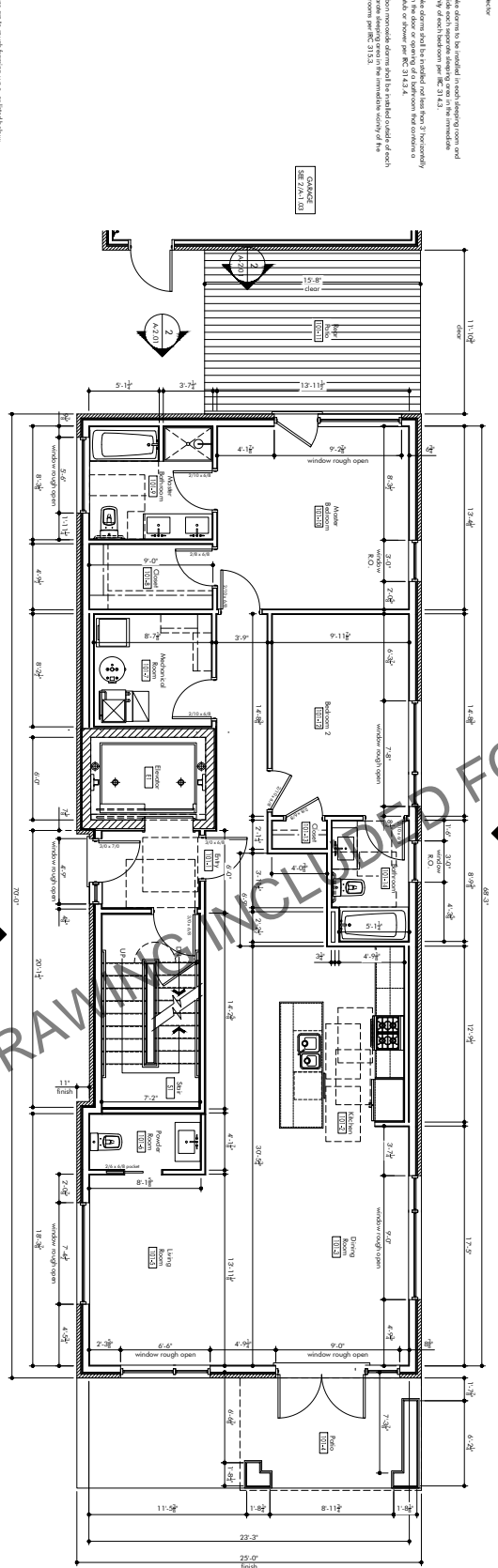
2 Second Floor Plan

1/2" = 1'-0"



1 Ground Floor Plan

1/2" = 1'-0"



LEGEND

- Colored Movable Divider
- Stair-Down
- Stair-Up

- Note:
1. Space shown to be installed in each sleeping room and outside each respective sleeping area in the immediate vicinity of each bed per part 2.1.3.1.4 of the International Building Code (IBC) shall be provided.
 2. Score the door or opening of bathroom then add a handle or flower per IBC 214.2.4.
 3. Callout provides details that are detailed outside of each bedroom per IBC 214.2.4.

GLAZED
SB 74(A) 1.0

Note:

1. All dimensions are to finish framing unless otherwise noted.
2. All dimensions are to the centerline of the member unless otherwise noted.
3. All dimensions are to the face of the member unless otherwise noted.
4. All dimensions are to the face of the member unless otherwise noted.

1 Ground Floor Plan

1/2" = 1'-0"



Indiana
Associates
Architects

1714 E. 10th Street
Pittsburgh, PA 15217
Tel: 412.324.1111
Fax: 412.324.1111

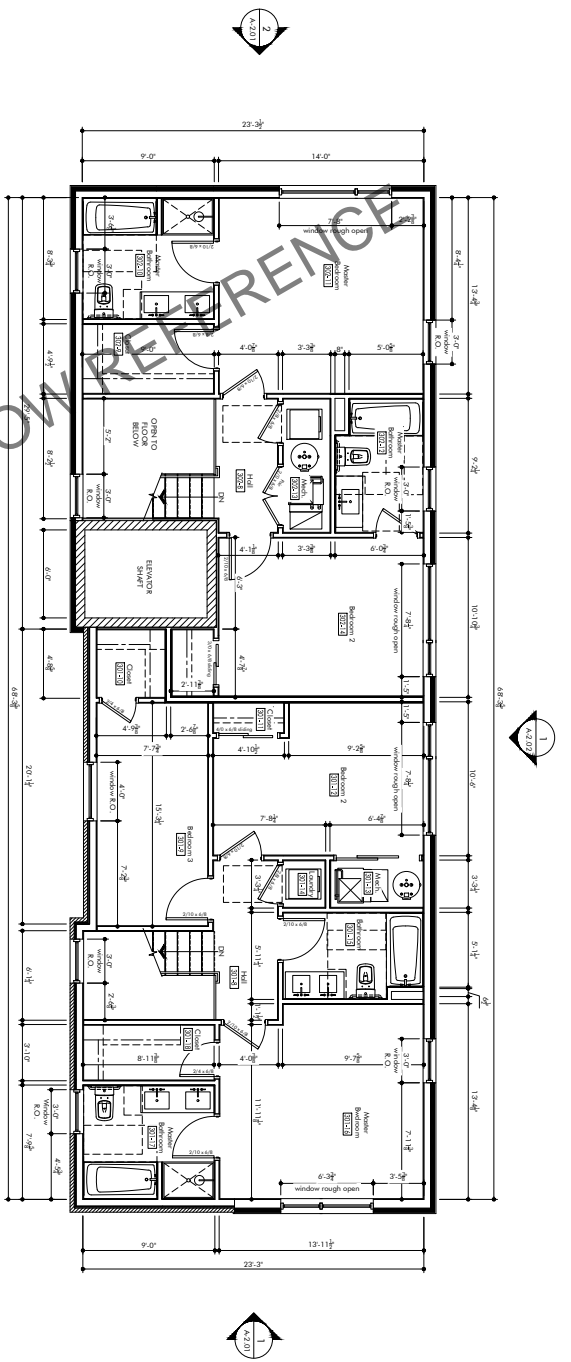
Residential Development 5 Dwelling Units

6633 Northumberland Street
Pittsburgh, PA 15217

Project Number: 1714
Date: 12/20/19
Revision: 08/27/2020

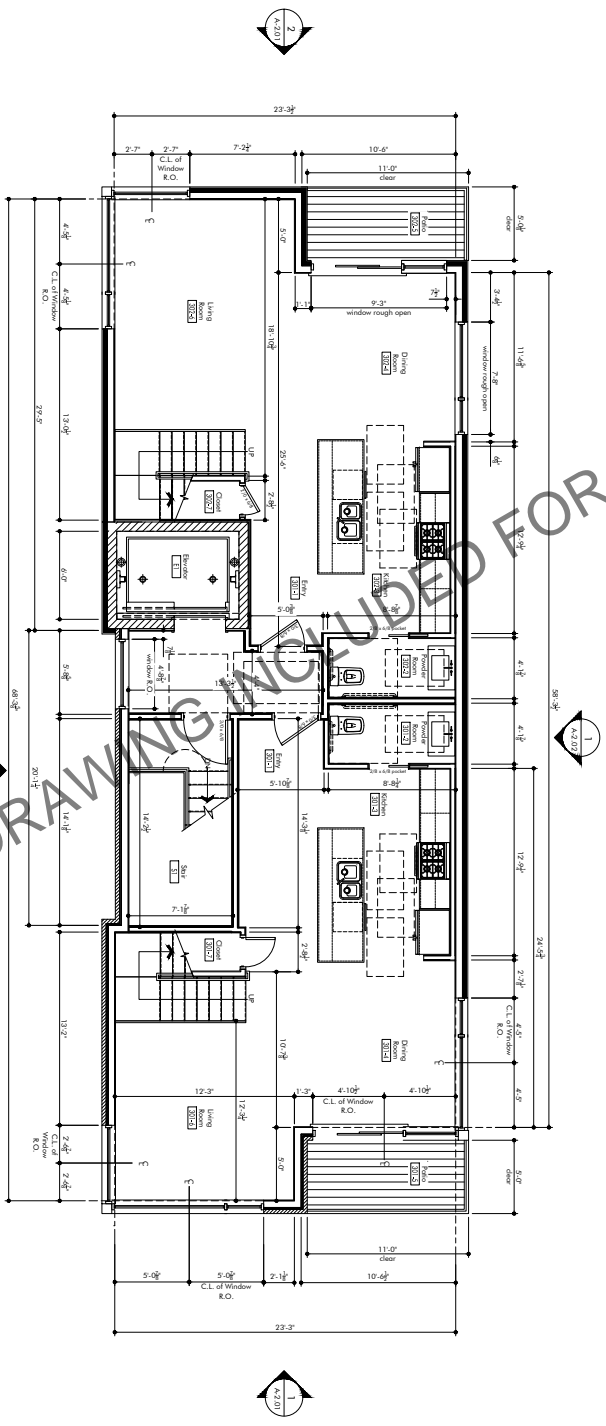
Floor Plans
Sheet No. A-1.01

- Notes:
1. Sliding doors to be installed in each sleeping room and bathroom.
 2. Sliding doors shall be installed and have floor 3" horizontally from the door or opening of a bedroom. See condition 3. Custom provide doors and be installed inside of each bedroom per IBC 713.2.
 3. Custom provide doors and be installed inside of each bedroom per IBC 713.2.



2 Fourth Floor Plan
 1/4" = 1'-0"

- Notes:
1. Sliding doors to be installed in each sleeping room and bathroom.
 2. Sliding doors shall be installed and have floor 3" horizontally from the door or opening of a bedroom. See condition 3. Custom provide doors and be installed inside of each bedroom per IBC 713.2.
 3. Custom provide doors and be installed inside of each bedroom per IBC 713.2.



1 Third Floor Plan
 1/4" = 1'-0"

- Notes:
1. Sliding doors to be installed in each sleeping room and bathroom.
 2. Sliding doors shall be installed and have floor 3" horizontally from the door or opening of a bedroom. See condition 3. Custom provide doors and be installed inside of each bedroom per IBC 713.2.
 3. Custom provide doors and be installed inside of each bedroom per IBC 713.2.



Residential Development
 5 Dwelling Units

6633 Northumberland Street
 Pittsburgh, PA 15217

All dimensions on this drawing shall be taken from the finished building unless otherwise noted. The architect shall be responsible for the accuracy of the information provided. The architect shall be responsible for the accuracy of the information provided. The architect shall be responsible for the accuracy of the information provided.

Project Number: 17144
 Date: 12/20/19
 Revision: 08/27/2019

**Existing and Proposed Sanitary Pipe Calculations
6629-6633 Northumberland Street Development
Northumberland Street 15-IN PWSA Combined Sewer
Dry Flow Comparison Calculations**

| Given Information | |
|-----------------------------------|-----------------------|
| Pipe Location: | Northumberland Street |
| Pipe Type: | VCP |
| Pipe Diameter (IN) ¹ : | 15 |
| Slope ² : | 1.5% |
| Depth of Flow (IN) ³ : | 1.8 |
| Manning's n Value: | 0.015 |

| Solve for Present Average Dry Flow | |
|------------------------------------|----------------|
| Radius of Pipe, r (IN): | 7.5 |
| Circular Segment Height, h (IN): | 1.8 |
| Central Angle, θ : | 81.072 |
| Flow Area, K (IN ²): | 12.012 |
| Wetted Perimeter (IN): | 10.612 |
| Hydraulic Radius (IN): | 1.132 |
| Hydraulic Radius (FT): | 0.094 |
| Velocity (FT/S): | 2.514 |
| Flow (CFS): | 0.210 |
| Flow (GPD): | 135,532 |

| Solve for Present Peak Flow | |
|--------------------------------|----------------|
| Peak Factor: | 3.5 |
| Flow (GPD)⁴: | 474,364 |

| Solve for Peak Design Capacity (Present) | |
|--|------------------|
| Flow (CFS): | 6.875 |
| Flow (GPD): | 4,442,674 |

| Solve for Average Design Capacity (Present) | |
|---|------------------|
| Peak Factor: | 3.5 |
| Flow (GPD): | 1,269,335 |

| Present Peak Flow | |
|--------------------|----------------|
| Flow (GPD): | 474,364 |

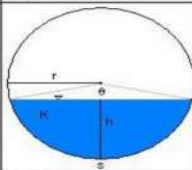
| Solve for Projected Peak Flow in 5 Years | |
|--|----------------|
| PWSA 5-year Factor | 1.05 |
| Anticipated Flow Contribution (GPD) ⁵ : | 1,600 |
| Flow (GPD): | 499,762 |

| Solve for Average Flow in 5 years | |
|-----------------------------------|----------------|
| Flow (GPD): | 142,789 |

| Summary | |
|---|----------------|
| Anticipated Peak Flow Contribution (GPD) ⁶ : | 1,600 |
| Present Average Flow (GPD): | 135,532 |
| Present Peak Flow (GPD): | 474,364 |
| Average Design Capacity (GPD): | 1,269,335 |
| Peak Design Capacity (GPD): | 4,442,674 |
| Average Projected Flow (GPD) | 142,789 |
| Peak Projected Flow (GPD) | 499,762 |

$$V = \frac{k}{n} R^{2/3} S^{1/2} \quad k=1.4859 ft^{1/3}/s \quad Q = VA$$

1. Sewer diameter referenced from PWSA output data provided January 19, 2021
2. Sewer sloped assumed to be minimum design slope for 15-inch sewer per PADEP Domestic Wastewater Facilities Manual.
3. Present flow based on peak dry flow as measured in PWSA Manhole MH127A010 on January 27, 2021 between 6am and 8am
4. Flow estimation calculation based on floor plans provided by Indovina Associates Architects

| step | solve for | if flow depth < radius |
|------|-------------------------|---|
| | |  |
| 1 | circular segment height | $h = d$ |
| 2 | central angle | $\theta = 2 \arccos \left(\frac{r-h}{r} \right)$ |
| 3 | circular segment area | $K = \frac{r^2 (\theta - \sin \theta)}{2}$ |
| 4 | arc length | $s = r \times \theta$ |
| 5 | flow area | $A = K$ |
| 6 | wetted perimeter | $P_w = s$ |
| 7 | hydraulic radius | $R_h = \frac{A}{P_w}$ |



**PROPOSED SANITARY LATERAL PIPE CALCULATIONS
6629-6633 NORTHUMBERLAND ST.**

| | |
|------------------------|---|
| Q_{max} | Based on Total Units Discharging |
| Q_{design} | $3.5 * Q_{max}$ |
| Q_{full} | $1.49/n * A_{pipe} * R^{2/3} * S^{1/2}$ |
| Q_{half} | FLOW AT HALF FULL = $0.48 * Q_{full}$ |
| V_{max} | VELOCITY AT 80% FULL = $1.15 * Q_{full} / A_{pipe}$ |
| V_{half} , (fps) | VELOCITY OF FLOW AT HALF FULL = $Q_{half} / (A_{pipe} * 0.5)$ |
| PIPE SIZED ACCORDINGLY | CHECKS IF Q_{design} IS LESS THAN Q_{half} |

FROM BUILDING TO EXISTING SYSTEM IN NORTHUMBERLAND ST.

MINIMUM SLOPE WITHIN THIS ENTIRE RUN = 1.0%

| MATERIAL | PVC | Q_{full} , cfs | Q_{full} , gpd | Q_{half} , cfs | Q_{half} , gpd | V_{max} , fps | V_{half} , fps |
|--------------------|--------------|------------------|------------------|------------------------------|------------------|-----------------|------------------|
| LENGTH, ft | 50 | 0.32 | 206,028 | 0.15 | 98,893 | 4.20 | 3.65 |
| DIAMETER, in | 4 | | | | | | |
| SLOPE | 2.00% | | | PIPE SIZED ACCORDINGLY: TRUE | | | |
| n | 0.011 | | | $V_{max} < 10$ fps: TRUE | | | |
| Q_{max} , gpd | 1,600 | | | $V_{half} > 2$ fps: TRUE | | | |
| Q_{design} , gpd | 5,600 | | | | | | |

Manhole Dip Test

Date Conducted: Wednesday, January 27, 2021

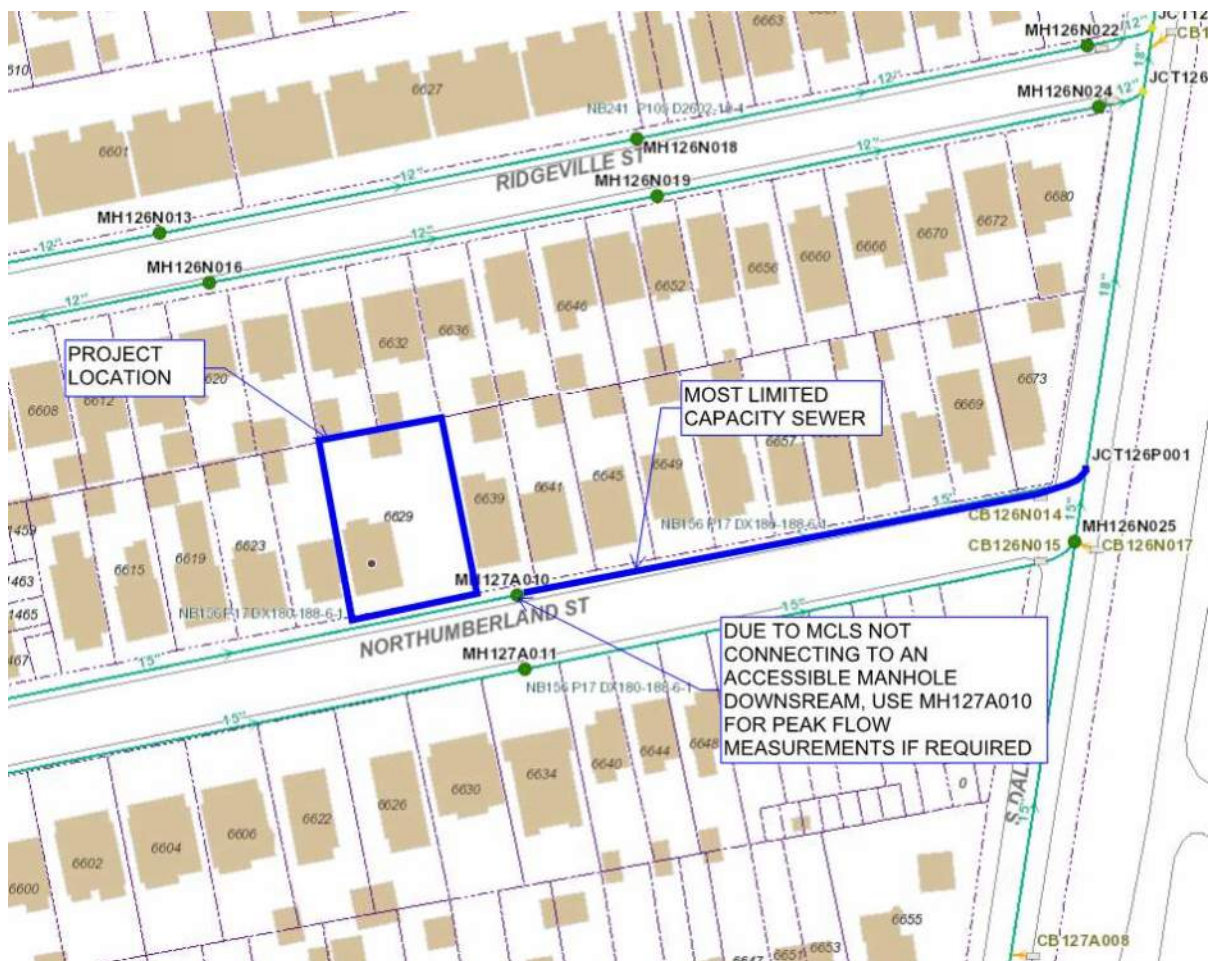
Time Conducted: 6:45 AM-7:45 AM

Conducted By: Robert Gehris, Josh Fisher

Manhole Sampled: MH127A011

Location: 6639 Northumberland Street, Pittsburgh, PA 15217

| TIME (AM) | DEPTH OF FLOW (IN) |
|-------------|--------------------|
| 6:50 | < 0.5 |
| 7:00 | < 0.5 |
| 7:10 | 0.75 |
| 7:20 | 1.0 |
| 7:30 | 1.75 |
| 7:40 | 1.5 |



**DOCUMENTATION
FROM UTILITY COMPANIES**

Jan 21, 2021

Mr. Rob Gehris
Langan

Subject: Water and Sewer (W/S) Use Approval
Project Name: 6629 Northumberland Street
PWSA Project No.: 20014.29

Dear Mr. Gehris:

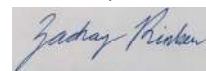
Pursuant to your request, we have reviewed the W/S Use Application (Application) for the aforementioned Project. This letter shall serve as confirmation that the Application has been approved. Please see below for the approved flows:

| Type of Flow | Sanitary, gpd | Water, gpd | Storm, cfs |
|----------------------|---------------|------------|------------|
| <i>Project Flow</i> | 1,600 | 1,600 | 1.32 |
| <i>Existing Flow</i> | 0 | 0 | 1.32 |
| <i>Net Flow</i> | 1,600 | 1,600 | |

Please be advised that the need for sewage planning shall be determined by the Department of Environmental Protection (DEP). After issuance of this letter, the PWSA shall email the Preliminary Determination on the Need for Sewage Planning Letter to the DEP. Typically, the DEP will respond via email with the Final Determination on the Need for Sewage Planning. In the event that sewage planning is required, we have enclosed for your use the location of the most limited capacity sewer.

Our review was based on information provided by the Applicant under the assumption that this information was accurate and complete. Should you have any questions, please do not hesitate to contact me directly at ZRinker@pgh2o.com.

Sincerely,



Zachary D Rinker
2021.01.20
17:54:13 -05'00'

Zach Rinker
Associate Project Manager

Enclosure(s)

cc: Barry King, P.E. – PWSA (via email)
Kate Mechler, P.E. – PWSA (via email)
Robert Herring, P.E. – PWSA (via email)
eBuilder – Filing System (via email)

March 10, 2021

Robert Gehris
Langan
2400 Ansys Drive Suite 403
Canonsburg, PA 15317

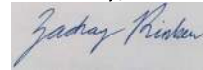
Subject: Sewage Facilities Planning Module (SFPM)
Approval for Collection System Flows
Project Name: 6629 Northumberland Street Project
PWSA Project No.: 20014.29

Dear Mr. Gehris

Pursuant to your request, we have reviewed the SFPM and determined that the Project will not create a dry-weather hydraulic overload within the next five (5) years for any collection facility owned by the Pittsburgh Water and Sewer Authority (PWSA). We have enclosed for your use the electronically signed "Section J – Chapter 94 Consistency Determination". Please be advised that this approval is limited to the collection system portion of the SFPM.

Our review was based on information provided by others under the assumption that this information was accurate and complete. Should you have any questions, please do not hesitate to contact me directly at ZRinker@pgh2o.com.

Sincerely,



Zachary D Rinker
2021.03.10
10:40:13 -05'00'

Zach Rinker
Associate Project Manager

Enclosures

cc: Barry King, P.E. – PWSA (via email)
Kate Mechler, P.E. – PWSA (via email)
Robert Herring, P.E. – PWSA (via email)
Thomas Flanagan – DEP (via email)
eBuilder – Filing System (via email)



March 29, 2021

Members of the Board

Corey O'Connor
Chair Person

Rep. Harry Readshaw
Sylvia C. Wilson
Shannah Tharp-Gilliam, Ph.D.
Jack Shea
John Weinstein
Brenda L. Smith

Arletta Scott Williams
Executive Director

William H. Inks, CPA
*Director
Finance & Administration*

Jan M. Oliver
*Director
Regional Conveyance*

Douglas A. Jackson, P.E.
*Director
Operations & Maintenance*

Kimberly N. Kennedy, P.E.
*Director
Engineering & Construction*

Michelle M. Buys, P.E.
*Director
Environmental Compliance*

Jeanne K. Clark
*Director
Governmental Affairs*

Joseph Vallarian
*Director
Communications*

Mr. Benjamin Hunter, P.E., LEED A.P.
Langan Engineering
2400 Ansys Drive, Suite 403
Canonsburg, PA 15317

**Re: 6629-6633 NORTHUMBERLAND STREET
City of Pittsburgh – 14th Ward, Allegheny County
PA DEP Sewage Facilities Planning Module
ALCOSAN Regulator Structure M-47-00**

Dear Mr. Hunter:


We have reviewed the Component 3 Planning Module for the referenced project to be located in the City of Pittsburgh, 14th Ward. The project will generate a peak flow of 1,600 gpd in the ALCOSAN Monongahela River Interceptor and Woods Run Treatment Plant.

The capacity of the ALCOSAN M-47-00 Regulator Structure is approximately 30.3 MGD. The monitored peak dry weather flow is approximately 4.60 MGD. Sufficient dry weather capacity exists for this connection. However, the ALCOSAN Monongahela River Interceptor and the Woods Run Treatment Plant do not have the capacity for the flows generated by tributary communities during wet weather periods. This limitation will be addressed as ALCOSAN implements its Clean Water Plan.

ALCOSAN requests that this letter be made part of the planning module submission. The signed Component 3 Planning Module is attached. The sewers in this project are to be designed as separated sanitary and storm sewers. If you have any questions regarding this matter, please contact me at 412-732-8053.

Sincerely,

ALLEGHENY COUNTY SANITARY AUTHORITY


Shawn P. McWilliams, EIT
Civil Engineer

Attachment

cc: Christina Dean (w/o attachment)
Dan Thornton (w/o attachment)
Michael Lichte (w/o attachment)
Barry King/ PWSA (w/o attachment)
Thomas Flanagan/ PADEP (w/o attachment)
Fred Fields/ ACHD (w/o attachment)

APPENDIX D

Alternative Sewage Facilities Analysis

SECTION H SEWAGE FACILITIES PLANNING MODULE COMPONENT 3

**Re: Alternative Sewage Facilities Analysis
6629-6633 Northumberland Street
City of Pittsburgh, Allegheny County, Pennsylvania
Langan Project No.: 250135301**

The project site is located in the Squirrel Hill North neighborhood of the City of Pittsburgh, in the RM-M, Multi-unit Residential Moderate Density, Zoning District within the City of Pittsburgh, Allegheny County, Pennsylvania. TGY Partners is proposing to construct a 4-story residential building with a total of four multi-bedroom condominiums. Hardscape and landscape improvements are also included as a part of this project. The proposed project will be owned and operated by Jianguang Zhang and TGY Partners. The project site area is approximately 0.20 acres composed of City of Pittsburgh lot 126-N-56.

The site is generally bound by residential lots to the north (City of Pittsburgh Parcels 126-N-103 & 126-N-101), Parcel 126-N-60), Parcel 126-N-54 to the west, and Northumberland Street to the South. The site is currently occupied by the existing automotive center and detached garage, paved impervious areas, and minimal pervious areas.

The sanitary service for the project will be provided by a proposed, on-site 4-inch gravity sewer lateral for the proposed building that will tie into the existing 15-inch combined sewer owned by PWSA and located in Northumberland Street. This existing 15-inch combined sewer eventually connects to the Monongahela Interceptor on the north bank of the Monongahela River. Sewage will then be conveyed and treated by Allegheny County Sanitary Authority (ALCOSAN) Wastewater Treatment Facility in Pittsburgh, PA. This ultimate method will provide for disposal of the net total combined daily flow of 1,600 gallons per day (4 EDUs). A reference for the approximate sewage flow for the proposed development can be found in Appendix C. The use of a proposed, private lateral will not create any undue financial burdens to the City of Pittsburgh, PWSA, or ALCOSAN.

Alternative methods of sewage disposal that could be considered include on-site subsurface disposal systems (septic systems) and an individual package wastewater treatment plant. The existing developments in the area are all currently connected to the public sewer system; therefore, an on-site septic system would not be consistent with the neighboring buildings, nor would it be a practical solution to provide adequate service for the site. The nearest discharge point from the site for a stream discharge is Fern Hollow Creek, approximately 0.5 miles east of the site. A package wastewater treatment plant with discharge to the Allegheny River is not feasible due to the size and cost of the site.

APPENDIX E

Public Notice

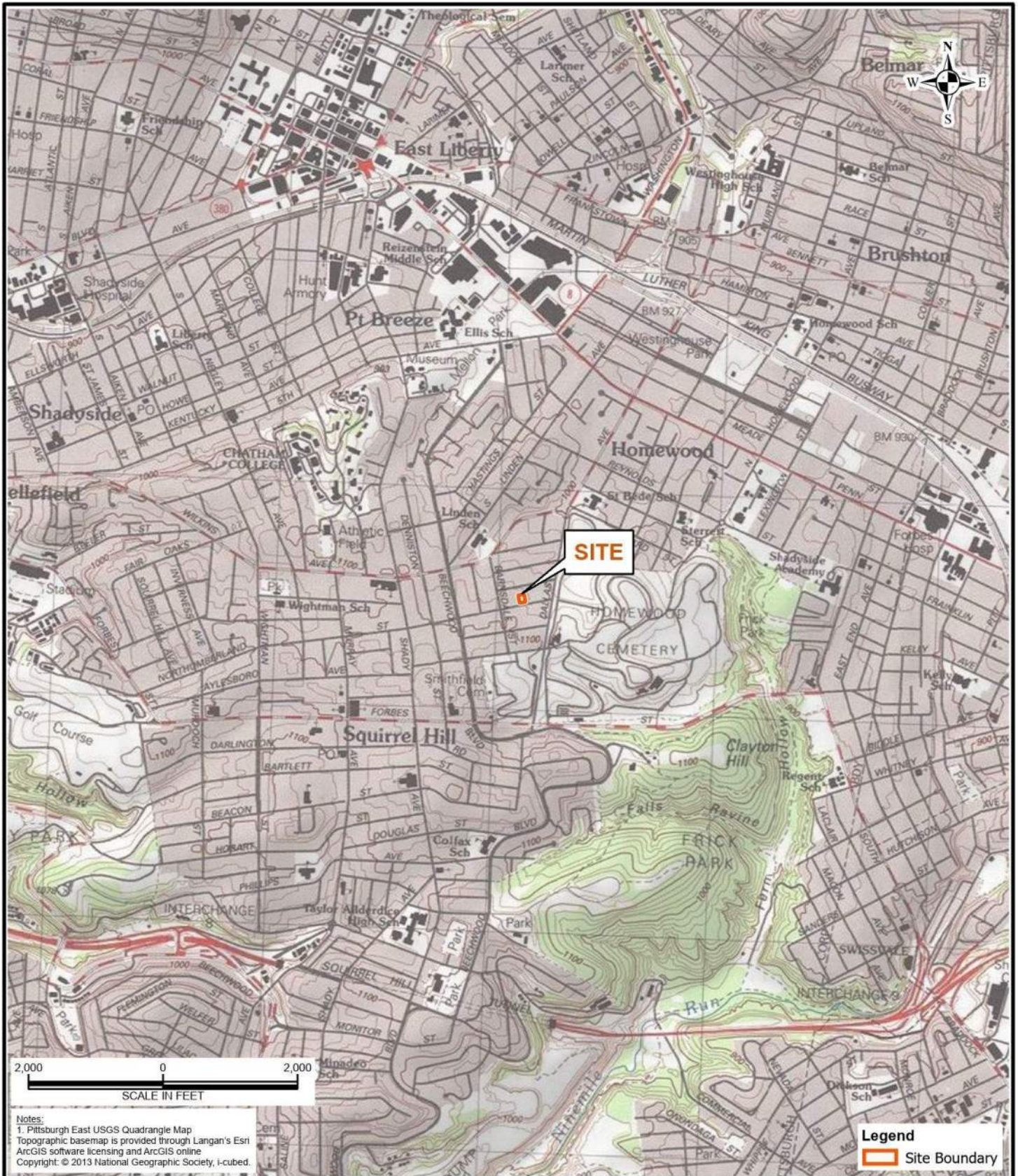
**SECTION P
SEWAGE FACILITIES PLANNING
MODULE COMPONENT 3**

**Re: Public Notice
6629-6633 Northumberland Street
City of Pittsburgh, Allegheny County, Pennsylvania
Langan Project No.: 250135301**

A public notification is not required for this project since no items in Section P of Component 3 (Appendix C) are applicable to this project.

APPENDIX F

USGS Map and Plot Plans



LANGAN
 Langan Engineering and
 Environmental Services, Inc.
 2400 Ansys Drive, Suite 403
 Canonsburg, PA 15317-9540
 T: 724.514.5100 F: 724.514.5101
 www.langan.com

Project
**6629
 NORTHUMBERLAND
 STREET**
 PITTSBURGH
 ALLEGHENY COUNTY PA

Drawing Title
**SITE
 LOCATION
 MAP**

| | |
|--------------------------|--------|
| Project No. 250135301 | Figure |
| Date 12/3/2020 | 1 |
| Scale 1" = 2,000 feet | |
| Drawn By LDB | |

NOTE: CALL PA ONE CALL SYSTEMS BEFORE CONSTRUCTION AND OR EXCAVATION. NO UTILITIES LOCATED.

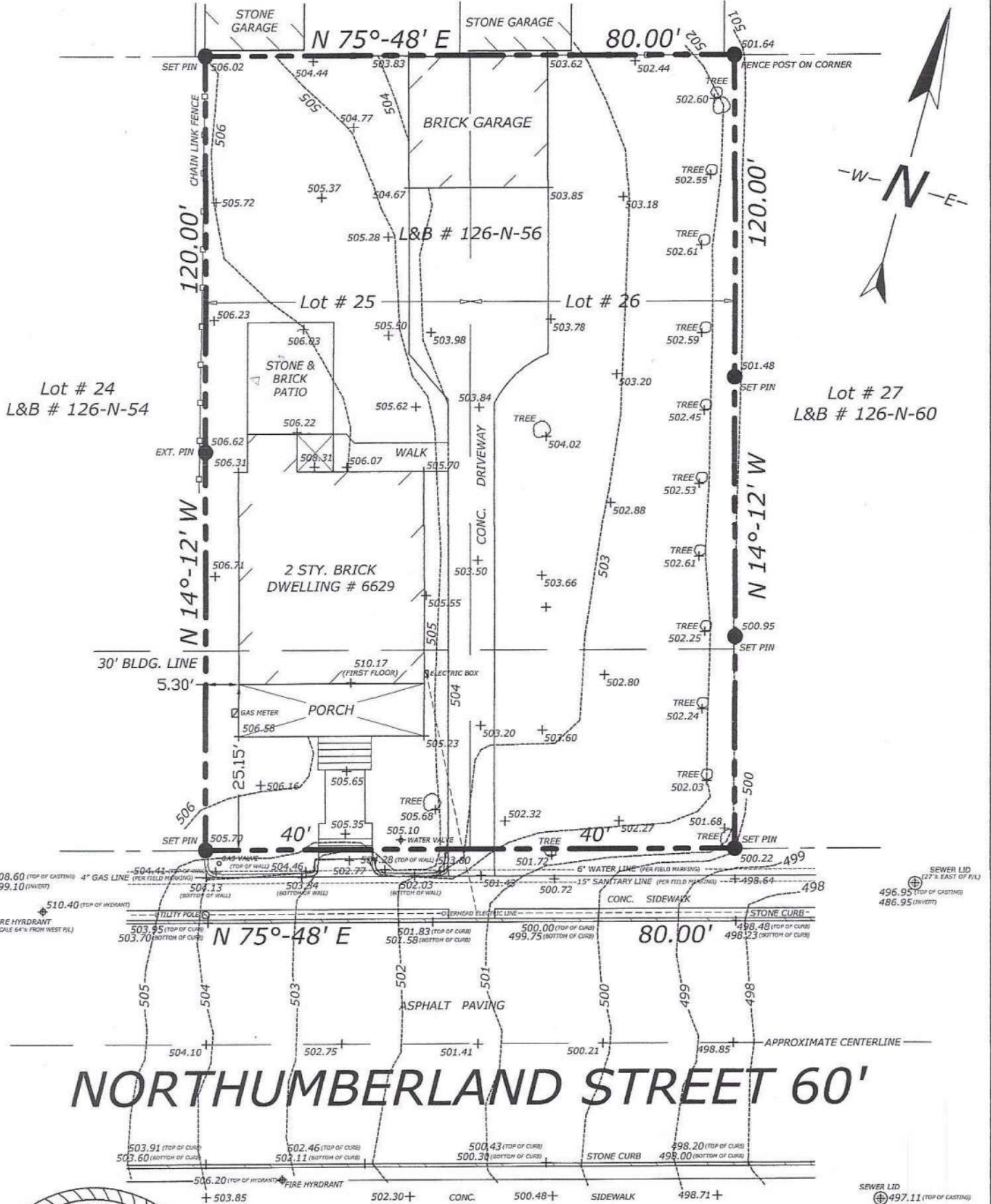
HAMNETT PLAN P.B.V. 24 PG. 106-107

Lot # 50
L&B # 126-N-105

Lot # 49
L&B # 126-N-103

Lot # 48
L&B # 126-N-101

Lot # 47
L&B # 126-N-99



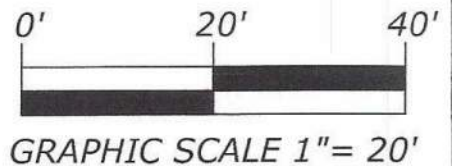
NORTHUMBERLAND STREET 60'



The purpose of this plan is for boundary and mortgage location purposes only. Declaration is made to the original purchaser of the survey. It is not transferable to additional institutions or subsequent owners.

I Jeffrey L. Kroneberg, P.L.S., hereby certify to and solely for the benefit of the person(s) named in this plan that this plan was prepared upon the premises on the date shown hereon showing the location of all buildings and easements of the surface of the premises. This plan is based on current deed and/or plan of record without the benefit of a title search which may reveal additional conveyances, easements, rights of way, or building lines. This plan may not be relied upon by anyone other than the person(s) for whose benefit it had been prepared. Copies of this plan without a signed seal are for reference only. This plan may not be recorded or referenced in deed, survey plan or plat book unless a signed acknowledgement appears on this plan stating it was prepared for such purpose.

NOTE: SPOT ELEVATIONS ARE ON ASSUMED DATUM.
NOTE: UTILITY FIELD MARKING PER PA ONE CALL TICKET No. 20203492290.



ALLEGHENY LAND SURVEYING

PLAN OF SURVEY

| | |
|-----------------|------------------|
| PITTSBURGH, PA | (412) 920-0341 |
| DRAWING NO. | 16369-B |
| SCALE: 1" = 20' | DATE: 12-18-2020 |

SITUATE IN: 14TH WARD CITY OF PITTSBURGH, ALLEGHENY CO., PA
MADE FOR: JIANGYANG ZHANG

APPENDIX G

Cultural Resource Notice

**SECTION G
SEWAGE FACILITIES PLANNING
MODULE COMPONENT 3**

**Re: Cultural Resources Notice (CRN)
6629-6633 Northumberland Street
City of Pittsburgh, Allegheny County, Pennsylvania
Langan Project No.: 250135301**

Per DEP Document #0120-PM-PY0003a (“DEP/PHMC Policies and Procedures; Implementation of the History Code; List of Exemptions”) – Section F, a Cultural Resource Notice is not required for this project as the project area is less than 10 acres, and the project site does not contain any historical buildings.

APPENDIX H

PNDI

1. PROJECT INFORMATION

Project Name: **6629 Northumberland Street**

Date of Review: **12/22/2020 02:04:48 PM**

Project Category: **Development, Residential, Subdivision containing more than 2 lots and/or 2 single-family units**

Project Area: **0.35 acres**

County(s): **Allegheny**

Township/Municipality(s): **PITTSBURGH**

ZIP Code:

Quadrangle Name(s): **PITTSBURGH EAST**

Watersheds HUC 8: **Lower Monongahela**

Watersheds HUC 12: **Streets Run-Monongahela River**

Decimal Degrees: **40.443085, -79.913818**

Degrees Minutes Seconds: **40° 26' 35.1055" N, 79° 54' 49.7440" W**

2. SEARCH RESULTS

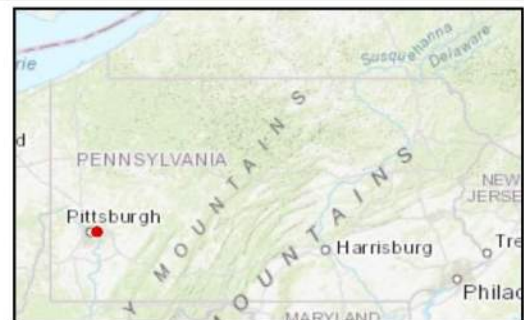
| Agency | Results | Response |
|---|-----------------|----------------------------|
| PA Game Commission | No Known Impact | No Further Review Required |
| PA Department of Conservation and Natural Resources | No Known Impact | No Further Review Required |
| PA Fish and Boat Commission | No Known Impact | No Further Review Required |
| U.S. Fish and Wildlife Service | No Known Impact | No Further Review Required |

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

6629 Northumberland Street

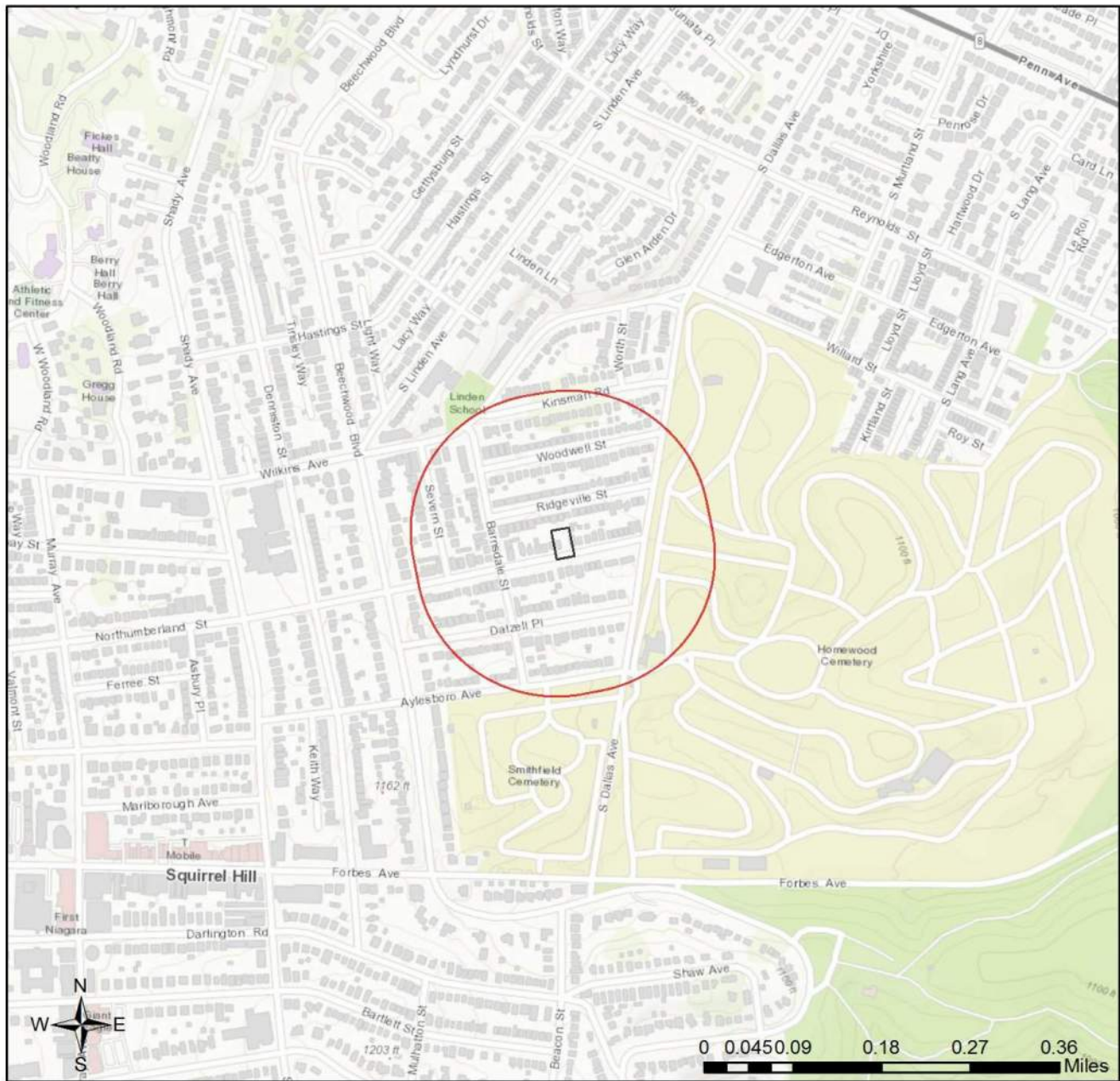




- Project Boundary
- Buffered Project Boundary



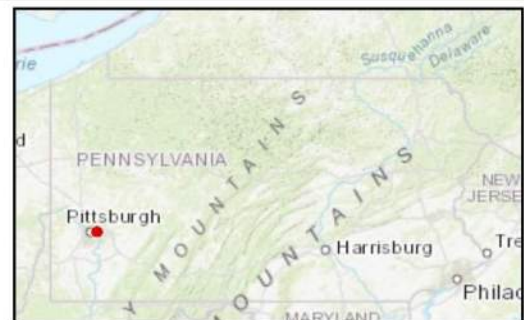
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China

6629 Northumberland Street



-  Project Boundary
-  Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, Garmin, Intemap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



RESPONSE TO QUESTION(S) ASKED

Q1: The proposed project is in the range of the Indiana bat. Describe how the project will affect bat habitat (forests, woodlots and trees) and indicate what measures will be taken in consideration of this. Round acreages up to the nearest acre (e.g., 0.2 acres = 1 acre).

Your answer is: The project will affect 1 to 39 acres of forests, woodlots and trees.

Q2: Is tree removal, tree cutting or forest clearing of 40 acres or more necessary to implement all aspects of this project?

Your answer is: No

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.



5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

PA Fish and Boat Commission

Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Adalee Jacobs
Company/Business Name: Langan Engineering & Environmental Services, Inc.
Address: 2400 Ansys Drive, Suite 403
City, State, Zip: Pittsburgh, PA 15222
Phone: (724) 514-5170 Fax: ()
Email: adjacobs@langan.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.



applicant/project proponent signature

12/22/2020

date

APPENDIX I

Component 4A



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DEP Code #: _____

**SEWAGE FACILITIES PLANNING MODULE
COMPONENT 4A - MUNICIPAL PLANNING AGENCY REVIEW**

Note to Project Sponsor: To expedite the review of your proposal, one copy of your completed planning module package and one copy of this *Planning Agency Review Component* should be sent to the local municipal planning agency for their comments.

SECTION A. PROJECT NAME (See Section A of instructions)

Project Name
6629-6633 Northumberland Street

SECTION B. REVIEW SCHEDULE (See Section B of instructions)

1. Date plan received by municipal planning agency March 11, 2021
2. Date review completed by agency March 11, 2021

SECTION C. AGENCY REVIEW (See Section C of instructions)

| Yes | No | |
|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 1. Is there a municipal comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101, <i>et seq.</i>)? |
| <input type="checkbox"/> | N/A <input type="checkbox"/> | 2. Is this proposal consistent with the comprehensive plan for land use? If no, describe the inconsistencies _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Is this proposal consistent with the use, development, and protection of water resources? If no, describe the inconsistencies _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Is this proposal consistent with municipal land use planning relative to Prime Agricultural Land Preservation? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. Does this project propose encroachments, obstructions, or dams that will affect wetlands? If yes, describe impacts _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 6. Will any known historical or archaeological resources be impacted by this project? If yes, describe impacts _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 7. Will any known endangered or threatened species of plant or animal be impacted by this project? If yes, describe impacts _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. Is there a municipal zoning ordinance? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. Is this proposal consistent with the ordinance? If no, describe the inconsistencies _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. Does the proposal require a change or variance to an existing comprehensive plan or zoning ordinance? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 11. Have all applicable zoning approvals been obtained? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 12. Is there a municipal subdivision and land development ordinance? |

SECTION C. AGENCY REVIEW (continued)

- | Yes | No | |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 13. Is this proposal consistent with the ordinance? If no, describe the inconsistencies _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 14. Is this plan consistent with the municipal Official Sewage Facilities Plan? If no, describe the inconsistencies _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 15. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 16. Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision? |
| <input type="checkbox"/> | <input type="checkbox"/> | If yes, is the proposed waiver consistent with applicable ordinances? If no, describe the inconsistencies _____ |

17. Name, title and signature of planning agency staff member completing this section:
 Name: Martina Battistone
 Title: Senior Environmental Planner
 Signature: *Martina Wolf Battistone*
 Date: March 11, 2021
 Name of Municipal Planning Agency: Department of City Planning
 Address 200 Ross Street, 4th Floor, Pittsburgh, PA 15219
 Telephone Number: 412-255-2516

SECTION D. ADDITIONAL COMMENTS (See Section D of instructions)

This component does not limit municipal planning agencies from making additional comments concerning the relevancy of the proposed plan to other plans or ordinances. If additional comments are needed, attach additional sheets.

The planning agency must complete this component within 60 days.

This component and any additional comments are to be returned to the applicant.

APPENDIX J

Component 4C



INSTRUCTIONS FOR COMPLETING COMPONENT 4C COUNTY OR JOINT HEALTH DEPARTMENT REVIEW

Remove and recycle these instructions prior to mailing component to the approving agency.

Background

This component, Component 4, is used to obtain the comments of planning agencies and/or health departments having jurisdiction over the project area. It is used in conjunction with other planning module components appropriate to the characteristics of the project proposed.

Who Should Complete the Component?

The component should be completed by any existing municipal planning agency, county planning agency, planning agency with areawide jurisdiction, and/or health department having jurisdiction over the project site. It is divided into sections to allow for convenient use by the appropriate agencies.

The project sponsor must forward copies of this component, along with supporting components and data, to the appropriate planning agency(ies) and health department(s) (if any) having jurisdiction over the development site. These agencies are responsible for responding to the questions in their respective sections of Component 4, as well as providing whatever additional comments they may wish to provide on the project plan. After the agencies have completed their review, the component will be returned to the applicant. The agencies have 60 days in which to provide comments to the applicant. If the agencies fail to comment within this 60 day period, the applicant may proceed to the next stage of the review without the comments. The use of registered mail or certified mail (return receipt requested) by the applicant when forwarding the module package to the agencies will document a date of receipt.

After receipt of the completed Component 4 from the planning agencies, or following expiration of the 60 day period without comments, the applicant must submit the entire component package to the municipality having jurisdiction over the project area for review and action. If approved by the municipality, the proposed plan, along with the municipal action, will be forwarded to the approving agency (Department of Environmental Protection or delegated local agency). The approving agency, in turn, will either approve the proposed plan, return it as incomplete, or disapprove the plan, based upon the information provided.

Instructions for Completing Planning Agency and/or Health Department Review Component

Section A. Project Name

Enter the project name as it appears on the accompanying sewage facilities planning module component (Component 2, 2m, 3, 3s or 3m).

Section B. Review Schedule

Enter the date the package was received by the reviewing agency, and the date that the review was completed.

Section C. Agency Review

1. Answer the yes/no questions and provide any descriptive information necessary on the lines provided. Attach additional sheets, if necessary.
2. Complete the name, title, and signature block.

Section D. Additional Comments

The Agency may provide whatever additional comment(s) it deems necessary, as described in the form. Attach additional sheets, if necessary.

**SEWAGE FACILITIES PLANNING MODULE
 COMPONENT 4C - COUNTY OR JOINT HEALTH DEPARTMENT REVIEW**

Note to Project Sponsor: To expedite the review of your proposal, one copy of your completed planning module package and one copy of this *Planning Agency Review Component* should be sent to the county or joint county health department for their comments.

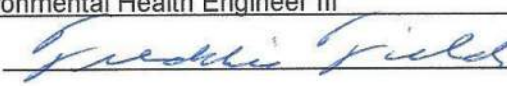
SECTION A. PROJECT NAME (See Section A of instructions)

Project Name
6629-6633 Nothumberland Street

SECTION B. REVIEW SCHEDULE (See Section B of instructions)

1. Date plan received by county or joint county health department March 11, 2021
 Agency name Allegheny County Health Department (ACHD)
2. Date review completed by agency March 12, 2021

SECTION C. AGENCY REVIEW (See Section C of instructions)

- | | | |
|-------------------------------------|-------------------------------------|---|
| Yes | No | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Is the proposed plan consistent with the municipality's Official Sewage Facilities Plan? If no, what are the inconsistencies? _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. Is there any known groundwater degradation in the area of this proposal? If yes, describe _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. The county or joint county health department recommendation concerning this proposed plan is as follows: <u>ACHD recommends approval. See attached letter.</u> |
| | | 5. Name, title and signature of person completing this section: Name: <u>Freddie Fields</u> Title: <u>Environmental Health Engineer III</u> Signature: <u></u> Date: <u>March 12, 2021</u> Name of County Health Department: <u>ACHD</u> Address: <u>3901 Penn Avenue, Building #5, Pittsburgh, PA 15224-1318</u> Telephone Number: <u>412-578-8046</u> |

SECTION D. ADDITIONAL COMMENTS (See Section D of instructions)

This component does not limit county planning agencies from making additional comments concerning the relevancy of the proposed plan to other plans or ordinances. If additional comments are needed, attach additional sheets.

The county planning agency must complete this component within 60 days.
 This component and any additional comments are to be returned to the applicant.

APPENDIX K

Completeness Checklist

Checklist



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

Completeness Checklist

The individual completing the component should use the checklist below to assure that all items are included in the module package. The municipality should confirm that the required items have been included within 10 days of receipt, and if complete, sign and date the checklist.

Sewage Collection and Treatment Facilities

- Name and Address of land development project.
- U.S.G.S. 7.5 minute topographic map with development area plotted.
- Project Narrative.
- Letter from water company (if applicable).
- Alternative Analysis Narrative.
- Details of chosen financial assurance method.
- Proof of Public Notification (if applicable).
- Name of existing collection and conveyance facilities.
- Name and NPDES number of existing treatment facility to serve proposed development.
- Plot plan of project with required information.
- Total sewage flows to facilities table.
- Signature of existing collection and/or conveyance Chapter 94 report preparer.
- Signature of existing treatment facility Chapter 94 report preparer.
- Letter granting allocation to project (if applicable).
- Signature acknowledging False Swearing Statement.
- Completed Component 4 (Planning Agency Review) for each existing planning agency and health department.
- Information on selected treatment and disposal option.
- Permeability information (if applicable).
- Preliminary hydrogeology (if applicable).
- Detailed hydrogeology (if applicable).

Municipal Action

- Component 3 (Sewage Collection and Treatment Facilities).
- Component 4 (Planning Agency Comments and Responses).
- Proof of Public Notification.
- Long-term operation and maintenance option selection.
- Comments, and responses to comments generated by public notification.
- Transmittal Letter

Signature of Municipal Official

Date submittal determined complete