### DEP Code No. 02001-19-001 SEWAGE FACILITIES PLANNING MODULE

for

## The Commonwealth Building 1<sup>st</sup> Ward City of Pittsburgh Allegheny County, Pennsylvania

**Prepared For:** 

Pitt Commonwealth Owner, LLC 408 Boulevard of the Allies Pittsburgh, PA 15219

**Prepared By:** 

Langan Engineering and Environmental Services, Inc.

2400 Ansys Drive, Suite 403 Canonsburg, Pennsylvania 15317



March 2019 250063301

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 New Jersey
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# **APPENDIX A** Transmittal Letter and Correspondence

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

#### TRANSMITTAL LETTER FOR SEWAGE FACILITIES PLANNING MODULE

					DEP USE ONLY			
I	DEP CODE	#	APS ID #		CLIENT ID #	Sľ	TE ID #	AUTH. ID #
F	PA DEP	Southweerfront E	ey (DEP or delega est Regional Offic Drive 5222-4745		al agency)		Date _	
Dear S	ir:							
Att	ached pl	ease fin	id a completed Se	wage F	acilities Planning Module	prepared	by	(Name)
Langar	n Engine			Service	<u>s, Inc.</u> for <u>Cor</u>	mmonweal		. ,
a subd	ivision, c	<i>(Title)</i> ommere	/	acility lo	ocated in the City of Pittsb	ourgh	(Nam	e)
Alleghe	eny						C	County.
Check	-		(City, Borough, Tow	nship)				
	prop ⊠ a agei (ii) The land	oosed [2 adopted ncy for a Plannir develo	Tevision sup for submission to approval in accord ng Module will no	plemer the De lance w t be ap cial Sew	It for new land developm partment of Environment ith the requirements of C proved by the municipali	tal Protection hapter 71 a	Official Sewa on □ transm and the Sewa	by the municipality as a age Facilities Plan", and is itted to the delegated local age Facilities Act, OR on or supplement for new ed therein is unacceptable
	Che	ck Box	es					
		Plannii	ng Module as pre	pared a		licant. Atta		may have an effect on the is the scope of services to
		ordina	nces, officially ad	opted of		d/or enviro	nmental plar	imposed by other laws or ns (e.g., zoning, land use, re attached hereto.
		Other	(attach additional	sheet g	iving specifics)			
	bal Seci ving Age		Indicate below b	y chec	king appropriate boxes	which con	nponents are	e being transmitted to the
	Resolut	ion of Ad	loption	□ 3.	Sewage Collection/Treatm	nent		cipal Planning Agency
□ 2. □ 2m.	Disposa	I of Sew	ommunity Onlot age ement Program	☐ 3s	Facilities Small Flow Treatment Fac		_	nty Planning Agency Review nty or Joint Health Department

Municipal Secretary (print)

Signature

Date

Note: Please remove and recycle the Instructions portion of the Sewage Facilities Planning Module prior to mailing the appropriate completed components and supporting documents to the approving agency.

CORRESPONDENCE



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August 28, 2018

Michelle Carney The Pittsburgh Water and Sewer Authority Penn Liberty Plaza – 1200 Penn Avenue Pittsburgh, PA 15222

#### Re: Water and Sewer Availability Request Commonwealth Building Pittsburgh, Pennsylvania Langan Project No.: 250063301

Dear Michelle:

This letter serves as a request for written verification of available water and sewer service to determine the feasibility of a residential conversion of the existing Commonwealth Building located within the Golden Triangle district in the City of Pittsburgh. The site is located at 316 Fourth Avenue. Please see attachment for the USGS Site Location Map.

The existing building has 20 stories plus a penthouse with a total GSF around 126,000 to 130,000 square feet. The proposed improvements will include ground floor retail or restaurant with lobby space. The 2<sup>nd</sup> and 3<sup>rd</sup> floors will be a mmix of amenity space and apartments. It is anticipated that there will be 150 apartments created.

We would like to confirm that sewer and water service is available for use at the site. Please reply by returning a copy of the form along with known Facility Mapping that would help us in this endeavor. Thank you for your attention to this matter.

Please contact me at (724) 514-5125 or by email at <u>bhunter@langan.com</u> if you should have any questions or need any additional information to review the submission.

Sincerely, Langan Engineering and Environmental Services, Inc.

Di to

Benjamin Hunter, PE, LEED AP Senior Project Manager

Enclosures: Water and Sewer Availability Letter Request Form Site Location Map

### PGH20 PITTSBURGH WATER AND SEWER AUTHORITY

#### WATER AND SEWER AVAILABILITY LETTER REQUEST FORM

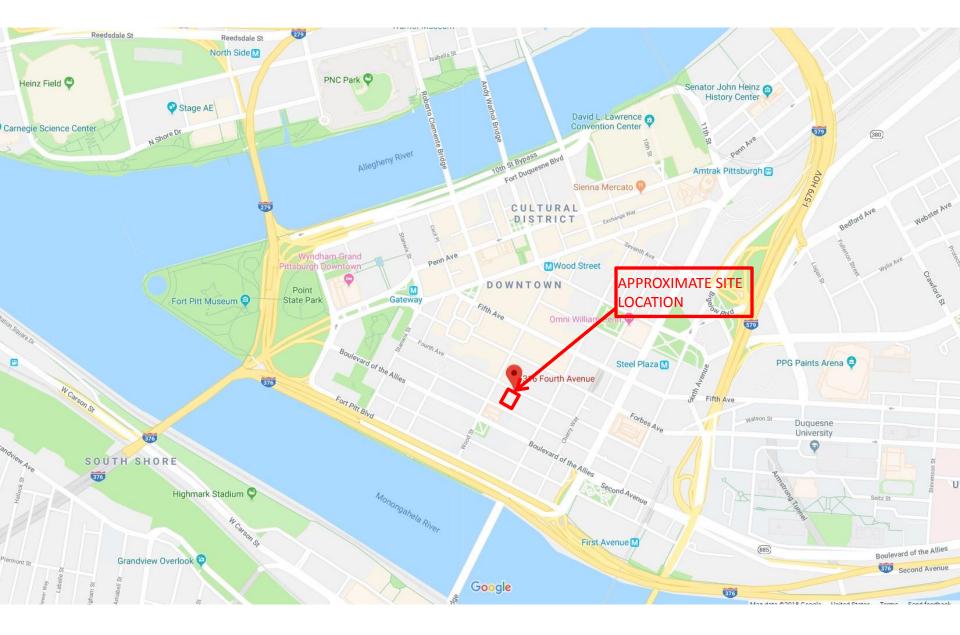
All persons planning to perform construction, demolition, or renovation work that will involve water and/or sewer services are <u>recommended</u> to complete this form and submit to PWSA. PWSA will review the request and reply to indicate if PWSA-owned water and/or sewer utilities are present at the 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 <u>all</u> 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 <u>all</u> residential, commercial, industrial, and institutional developments.

Information to be submitted by the Applicant:						
Property Owner Name: JON KNUDSEN						
Address of Property: 31	6 FOURTH AVENUE, PITTSBURGH, PA 15222					
Proposed Use of Site: N	/IXED-USE DEVELOPMENT					
Closest street intersection to	the property: WOOD ST. AND FOURTH AVE.					
Requestor Name: BEN	JAMIN HUNTER (LANGAN) Date of Request: 08/30/2018					
Requestor Address: 240	00 ANSYS DRIVE, CANONSBURG, PA 15317					
Requestor Phone Number:	724-514-5125					
Please submit the completed form to:Pittsburgh Water and Sewer Authority Engineering and Construction Division 1200 Penn Avenue Pittsburgh, PA 15222 Attn: Ms. Michelle Carney (mcarney@pgh2o.com)						
PWSA Use Only:						
Water PWSA Water Service Available: Yes No Size / Location:						
PWSA Sewer Service Available:       Yes       No       Size / Location:						
Applicant must contact separate agency for water and/or sewer service: Yes No						
Name of separate agency:						
PWSA Approval Authority:	Signature and Date					
	Title					

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.



# PGHOO

Pittsburgh Water & Sewer Authority

September 13, 2018

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Mr. Ben Hunter Langan Engineering 2400 Ansys Drive, Suite 403 Canonsburg, PA 15317

#### RE: Water and Sewer Availability 316 Fourth Avenue - 15222 Mixed Use Development

Dear Mr. Hunter:

In response to your inquiry on 8/30/2018 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 (<u>www.pgh2o.com</u>) 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) 255-0841. Thank you.

Sincerely, dullar Michelle E. Carney Engineering Technician III

MEC

cc: PWSA File

www.pgh2o.com ℣@pgh2o

#### PGH20 PITTSBURGH WATER AND SEWER AUTHORITY

#### WATER AND SEWER AVAILABILITY LETTER REQUEST FORM

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 <u>required</u> for all of the following types of development. (Please note that the term "sewer" refers to sanitary sewers, combined sewers, and storm sewers.)

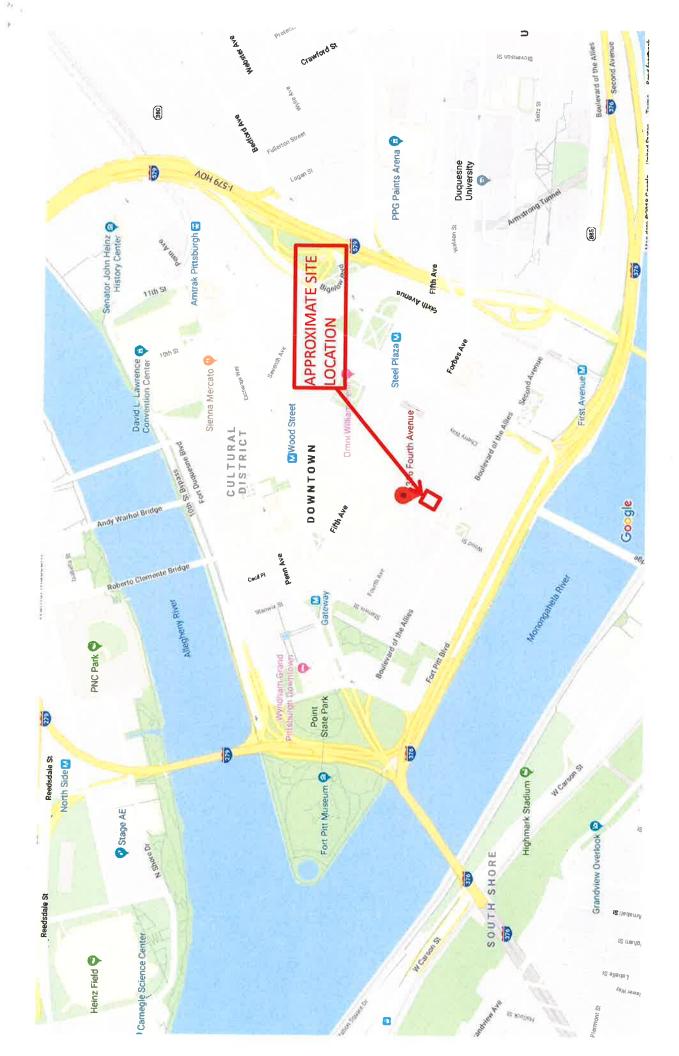
1. New water and/or sewer tap(s) for all approved/recorded subdivisions.

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- 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.

Information to be s	submitted by the Applicant:						
Property Owner Nar	me: JON KNUDSEN						
Address of Property							
Proposed Use of Site	e: MIXED-USE DEVELOPMENT						
	ection to the property; WOOD ST. AND FOURTH AVE.						
Requestor Name:	BENJAMIN HUNTER (LANGAN) Date of Request: 08/30/2018						
Requestor Address:	2400 ANSYS DRIVE, CANONSBURG, PA 15317						
Requestor Phone Nu	amber: 724-514-5125						
Please subm	hit the completed form to: Pittsburgh Water and Sewer Authority Engineering and Construction Division 1200 Penn Avenue Pittsburgh, PA 15222 Attn: Ms. Michelle Carney (mcarney@pgh2o.com)						
PWSA Use Only:	BY.POOT /N						
PWSA Water Servic	ce Available: Wes INo Size / Location: 12" 4th Avenue						
PWSA Sewer Servic	$\begin{array}{c c} Water \\ \hline Water \\$						
Applicant must conta	act separate agency for water and/or sewer service: 🗌 Yes						
Name of separate ag	ency: <u>N/A</u>						
PWSA Approval Au	athority: Signature and Mickolle E Carney 9-13-2018						
	Name (printed) <u>Michelle Carney</u> Title <u>Engineorine Teolij</u>						

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.







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BY: PUSA MC

August 28, 2018

Michelle Carney The Pittsburgh Water and Sewer Authority Penn Liberty Plaza – 1200 Penn Avenue Pittsburgh, PA 15222

#### Re: Water and Sewer Availability Request Commonwealth Building Pittsburgh, Pennsylvania Langan Project No.: 250063301

Dear Michelle:

This letter serves as a request for written verification of available water and sewer service to determine the feasibility of a residential conversion of the existing Commonwealth Building located within the Golden Triangle district in the City of Pittsburgh. The site is located at 316 Fourth Avenue. Please see attachment for the USGS Site Location Map.

The existing building has 20 stories plus a penthouse with a total GSF around 126,000 to 130,000 square feet. The proposed improvements will include ground floor retail or restaurant with lobby space. The 2<sup>nd</sup> and 3<sup>rd</sup> floors will be a mmix of amenity space and apartments. It is anticipated that there will be 150 apartments created.

We would like to confirm that sewer and water service is available for use at the site. Please reply by returning a copy of the form along with known Facility Mapping that would help us in this endeavor. Thank you for your attention to this matter.

Please contact me at (724) 514-5125 or by email at <u>bhunter@langan.com</u> if you should have any questions or need any additional information to review the submission.

Sincerely, Langan Engineering and Environmental Services, Inc.

Benjamin Hunter, PE, LEED AP Senior Project Manager

Enclosures: Water and Sewer Availability Letter Request Form Site Location Map

New Jersey • New York • Connecticut • Pennsylvania • Ohio • Washington, DC • Virginia • Florida • Texas • California Abu Dhabi • Athens • Doha • Dubai • Istanbul • London • Panama

### 316 4th Avenue



Le	gend	0	Water Manhole		Outfail
•	Meter		Rising Main		End Cap
	Pump		Supply Main		Sewer Pump Station
٠	Hydrant		Transmission Main		Combined Sewer
۰	Hydrant- Out of Service		Distribution Main		Sanitary Sewer
۲	System Valve		Hydrant Branch		Storm Sewer
8	Dividing Pressure Valve		Private Main		Regulated Combined Sewer
п	Сар		Water Service Line		Overflow Sewer
2	Tee or Cross		Manhole	<del>~~</del>	Interceptor
X	Reducer	•	Junction	$\rightarrow$	Sewer Force Main
-	Coupling	est.	Inlet		Private Sewer
6	Wash Out	->	Private Inlet	->	Undefined Sewer

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Neifter the City of Pfitsburgh nor the PWSA guarantees the accuracy of any of the information hereby made available, including but not limited to information oncerning the location and condition of underground structures, and neither assumes any responsibility for any conductions 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 underslanding or representations are expressly set forth in a duly authorized written document, and such document expressly provides that responsibility therefore is assumed by the City or the PWSA.

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Date: 9/13/2018

⊐ Feet

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### 316 4th Avenue



Legend 0 Water Manhole 0 Outfall Meter Rising Main 4 End Cap Pump P P Supply Main Sewer Pump Station Hydrant Transmission Main Combined Sewer ۵ Hydrant- Out of Service **Distribution Main** Sanitary Sewer System Valve Hydrant Branch æ Storm Sewer 0 Dividing Pressure Valve -- · Private Main Regulated Combined Sewer Cap Water Service Line Overflow Sewer Tee or Cross Manhole Interceptor Reducer 0 Junction · Sewer Force Main Coupling 52 Inlet - Private Sewer Wash Out Private Inlet Undefined Sewer

# PGHOO

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0

Dale: 9/13/2018

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February 27, 2019

Mr. Benjamin Hunter Langan Engineering and Environmental Services, Inc. 2400 Ansys Dr., Suite 403 Canonsburg, PA 15317

#### RE: **Commonwealth Building** 316 Fourth Avenue - 15222 PWSA Water and Sewer Use Application

Dear Mr. Hunter:

The Pittsburgh Water and Sewer Authority (PWSA) is in receipt of the submittal for the above referenced project.

PWSA agrees with your proposed new flows and has approved the "PWSA Water and Sewer Use Application".

Please contact Tom Flanagan at (412) 442-4047 to obtain the correct DEP Sewage Facilities Planning Module (SFPM) form(s) to complete. You must submit the DEP SFPM completed with PA Professional Engineer sealed calculations to PWSA for review and approval. After PWSA and ALCOSAN approve the DEP SFPM you will need to contact the City Law Department to prepare the SFPM Resolution to be approved by City Council. The approved Resolution will need to then be submitted with the completed DEP Sewage Facilities Planning Module to DEP for final review and approval.

Be advised PWSA is not permitted to approve the final water and sewer tap in plans nor issue PWSA permits without the DEP SFPM approved.

Refer to the comments listed below as you move forward:

- 1. A "Water and Sewer Availability Request Form" needs to be submitted. This form should normally be submitted prior-to/with the Water and Sewer Use Application.
- 2. Per Section 2.4 (p. 2-10) of the PWSA Developer's Manual, Plumbing floor plans need to be provided.
- 3. Question 23 of the "Technical Checklist for Water Tap-in Drawings" asks about contact with the city regarding fire protection. Will the change in use of the building change the required fire flow requirements?
- 4. Page 3 of 4 of the project narrative has a footnote "6" referenced in the title of Table 2. I was unable to locate the explanation of said footnote elsewhere in the document. Please provide details clearly or remove if unnecessary.



If you have any questions, please feel free to contact me at (412) 255-8800 x 5512.

Sincerely,

Brett McAllister Associate Project Manager

BRM

cc: **PWSA File** 

 Penn Liberty Plaza I
 info@pgh2o.com

 1200 Penn Avenue
 T 412.255.2423

 Pittsburgh PA 15222
 F 412.255.2475

www.pgh2o.com 🔰 @pgh2o

Project No.

#### (PWSA USE ONLY) THE PITTSBURGH WATER AND SEWER AUTHORITY ENGINEERING AND CONSTRUCTION DIVISION

#### WATER AND SEWER USE APPLICATION FORM

(Return completed submittal package to The Pittsburgh Water and Sewer Authority (PWSA), Engineering and Construction Division

This application is used for commercial or residential projects that propose connecting to the PWSA water or sewer system or propose changing the amount of PWSA water consumed and/or flows discharged to the PWSA sewer system.

<u>A.</u>	GENERAL INFORMATION						
1.	Name of Land Development Project <u>Commonwealth Bui</u> Location of land development project. Use landmark or a intersection of Liberty Ave and 6 <sup>th</sup> St.) <u>316 Fourth Avenue</u>	ddress, if available (e.g., north side of	Liberty Ave 75 ft. east of				
2.	Nature of Development. Check appropriate box and provi Total Water Consumption (gpd Residential22,650		Total Storm Flows (cfs)				
	Commercial 4,362	4,362	1.22				
3.	Total27,012Acreage of development0.18	27,012					
4.	Allegheny County Block & Lot Nos. 1-H-330 (1st War						
4.	Allegheny County Block & Lot Nos. 1-1-000 (1st war	d)					
5.	Ownership of Land Development						
	Name Justin Shaw	Address 44 Homestead Ave	2				
		-++ Homestead Ave	7.				
	Pitt Commonwealth Owner, LLC Stamford, CT 06902						
6.	Applicant (Subdivider, Developer, or Responsible Project	Agent)					
0.	Name <u>Ben Hunter</u> Firm/Agency Name Langan Engineering						
	Address 2400 Ansys Drive, Suite 403, Canonsburg, PA 15317						
	Telephone <u>724-514-5125</u> Cell <u>412</u>	2-518-0858 Email Bhunte	r@langan.com				
<b>B.</b>	WASTEWATER AND STORMWATER FACILITIES						
	e information on collection and treatment facilities.	,					
1.	COLLECTION SYSTEM	1 sopitory 1 storm					
	<ul> <li>a. Number of proposed connections (sanitary and/or storm) <u>1 sanitary, 1 storm</u></li> <li>b. Name of existing collection or conveyance system <u>Fourth Avenue</u></li> </ul>						
	c. Name of interceptor Monongahela River		_				
	d. Name of treatment facility <u>Allegheny County S</u>	Sanitary Authority (ALCOSAN)	_				
2.	SITE PLAN (24" x 36" maximum size accepted)						
	The following information is to be submitted on a site plan a. Existing building.	f. Existing and proposed rig	rbt(c) of wow				
	<ul> <li>a. Existing building.</li> <li>b. Lot lines and lot sizes.</li> </ul>	g. Existing and proposed fig	eet roadway etc				
	c. Remainder of tract.	h. Water bodies and wetland					
	d. Orientation to North.						
	e. Show proposed sewer line to the point of connect	tion to existing collection system. Inclu	iding all components				
	(collection & conveyance lines, pumps, etc.)						
	- Ha						
	Dipt	10/17/2018					
	Applicant Signature	Date					
	Applicant Signature	Date					



#### PROJECT NARRATIVE

#### **Existing Conditions**

The project site is located at 316 Fourth Avenue in the 1<sup>st</sup> Ward of the City of Pittsburgh, Allegheny County, Pennsylvania. The project site consists of the City of Pittsburgh parcel number 1-H-330, having a total area of 0.19 acres. The project site is generally bound by Fourth Avenue to the north, a 13-story existing brick building *The Pittsburgh Tech Center Bunker* to the east, two existing brick buildings and a vacant lot to the south, and a 21-story existing brick building *The Union Bank Building* to the west. It is located in the Golden Triangle A (GT-A) District. The site currently consists of a 20-story brick office building known as *The Commonwealth Building*.

#### **Proposed Development**

Pitt Commonwealth Owner, LLC is proposing to renovate the existing Commonwealth Building. The project consists of a residential conversion of existing office space in the Commonwealth Building. The proposed improvements will include ground floor retail or residential with lobby space and 2<sup>nd</sup> and 3<sup>rd</sup> floor amenity space and apartments. It is anticipated that the existing curb will remain and be reused and all existing dry utilities for the building will remain and provide adequate service for the proposed improvements.

#### Sewer and Water Use

The existing project site contains a 20-story brick building. The existing site has estimated combined daily sanitary sewage flow of 12,809 gallons per day, or 42.70 EDUs (see Table 1). Following the proposed renovation, the building will have an estimated combined daily sanitary sewage flow of 27,012 gallons per day, or 90.04 EDUs (see Table 2). The proposed increase in combined daily sanitary sewage flow as a result of the proposed improvements is 14,203 gallons per day, or 47.34 EDUs.

The existing sanitary service for the project site is provided via a combined gravity lateral that connects to the existing 36-inch PWSA combination sewer in Fourth Avenue. This service will be terminated.

The proposed sanitary services for the project site will be provided via a 10-inch private sanitary gravity lateral located in Fourth Ave. The 10-inch lateral in Fourth Ave. will connect into the existing 36-inch PWSA combined sewer, north of the *Commonwealth Building*.

The existing storm sewer service for the project site is provided via a combined gravity lateral that conveys stormwater to the existing 36-inch PWSA combination sewer in Fourth Avenue.

The proposed storm sewer service for the project site will be provided via a 10-inch private gravity storm sewer lateral. The proposed storm lateral will convey stormwater to the existing 36-inch PWSA combined sewer in Fourth Ave.

The total area of disturbance for the development will be less than 10,000 square feet; therefore, per Section 1003.04.C of the City of Pittsburgh Code, the project is exempt from stormwater management regulations.

Using the rational method based on the 25-year storm, the stormwater discharge rate for the existing site conditions is 1.22 cubic feet per second, and the stormwater discharge rate for the proposed site conditions will also be 1.22 cubic feet per second, as the site conditions are remaining the same.

PWSA records indicate that the existing water service for the project site is provided by two existing water laterals. One 4-inch and one 6-inch lateral that both connect into the existing 12-inch PWSA water main in Fourth Avenue. There is also a possible 1.5-inch existing water service that may connect to the existing 12-inch PWSA water main in Third Ave. The existing water consumption is estimated to be the same as the existing combined daily sanitary sewage flow, 12,809 gallons per day, or 42.70 EDUs. The existing water lines to the building will be terminated.

Water service to the site will be provided via two proposed private water laterals. The fire service is provided via an 8-inch water lateral that connects to the existing 12-inch PWSA main in Fourth Ave. The domestic water services for the site will be provided via a proposed 6-inch water lateral that connects into the existing 12-inch PWSA water line in Fourth Avenue.

The proposed water demand is 27,012 gallons per day, or 90.04 EDUs; therefore, the proposed increase in water demand as a result of the proposed improvements is 14,203 gallons per day, or 47.34 EDUs.

EXISTING SEWAGE FLOW ESTIMATION						
Unit Description	Number of Units	Anticipated Average Rate (GPD/Units) <sup>1</sup>	Anticipated Average Sewage Flow (GPD)			
Office	1273	10	12,730			
HVAC Condensate	-	-	79			
	12,809					
	Pro	posed EDUs <sup>2</sup> =	42.70			

TABLE 1: EXISTING PWSA SANITARY SEWAGE FLOW ESTIMATION

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

2 – EDUs are based on 300 GPD/EDU.

TABLE 2: PROPOSED PWSA SANITARY SEWAGE FLOW ESTIMATION						
PROPOSED	PROPOSED SEWAGE FLOW ESTIMATION					
Unit Description	Number of Units	Anticipated Average Rate (GPD/Units) <sup>1</sup>	Anticipated Average Sewage Flow (GPD)			
Apartment: 1 Bedroom	129	150	19,350			
Apartment: 2 Bedroom	11	300	3,300			
Office (per employee)	8	10	80			
Restaurants (toilet and kitchen wastes per patron)	423	10	4,230			
HVAC Condensate	-	-	52			
	27,012					
	Pro	posed EDUs <sup>2</sup> =	90.04			

### DOODOOFD DIALOA OANIITADIL OFIALAOF FLOIAL FOTIAATION

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 Sanitary Flows**

#### **Flow Comparison**

The additional sanitary flow contribution from the proposed improvements relative to the capacity of the existing 36-inch combined server in Fourth Avenue is provided in Appendix A. The 36-inch combined sewer in Fourth Avenue has sufficient capacity for the proposed improvements.

#### **Proposed Sanitary Pipe Capacity**

The verification of adequate pipe capacity for the proposed sanitary flows is based on Manning's equation, as summarized in Appendix A.

#### **Proposed Stormwater Pipe Capacity**

Stormwater discharge rates for the existing and proposed development are based on the Rational Method described within the PWSA Procedures Manual for Developers. The proposed renovations will not result in any increased impervious areas so the pre-development and postdevelopment 25-year storm discharge rates are the same. Both the existing and proposed site conditions have a 25-year storm peak discharge of 1.22 cubic feet per second. Refer to Table 4 and 5 for summarized results using the Rational Method. Stormwater runoff from the site will discharge into the existing 36-inch PWSA combined sewer in Fourth Avenue (see Drawing GI-102 for combined sewer location).

#### 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 25year, 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 3: RUNOFF COEFFICIENT VALUES

LAND COVER	С
Impervious Area (Building, hardscape)	0.95
Improved Surface (concrete, asphalt,	0.95
brick, surface treated)	

\*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 4: SUMMARY OF EXISTING STORMWATER PEAK DISCHARGES RATES

LAND COVER	DRAINAGE AREA (SF)	DRAINAGE AREA (AC)	INTENSITY (IN/HR)	RUNOFF COEFFICIENT "C"	PEAK FLOW (CFS)
Impervious Area	7,956	0.18	7.13	0.95	1.22
				SITE RUNOFF	1.22

#### TABLE 5: 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	7,956	0.18	7.13	0.95	1.22
				SITE RUNOFF	1.22





May 17, 2019

Mr. Benjamin Hunter Langan Engineering and Environmental Services 2400 Ansys Drive, Suite 403 Canonsburg, PA 15317

#### RE: Commonwealth Building 316 Fourth Ave - 15222

Dear Mr. Hunter:

The Pittsburgh Water and Sewer Authority (PWSA) has reviewed your submitted PA DEP Sewage Facilities Planning Module Component 3.

PWSA has approved your submittal and signed Section J and is returning to you for processing to ALCOSAN for final signature. Contact Leslie Stevens at the City of Pittsburgh Law Department at (412-255-2005) to prepare the required City Resolution that Council will need to approve for this project.

Once you receive City Council Resolution, you must submit the complete package to the DEP for final review and approval. You must include all documentation including the approved City of Pittsburgh Council Resolution and any review fees.

Once PWSA receives a copy of the approved Sewage Facilities Planning Module from the DEP, PWSA will process the tap in plan. PWSA is not permitted to issue final approval or a PWSA Permit for connection to the water and/or sewer mains until approval from DEP is granted.

If you have any questions specific to PWSA feel free to contact me. For any general questions regarding the Planning Module you must contact the DEP.

Sincerely tthew Smuts

Associate Project Manager

CC (via email): Thomas Flanagan - DEP

Kate Mechler – PWSA Julie Asciolla - PWSA Leslie Stevens – City of Pittsburgh Law Department Michael Lichte - ALCOSAN PWSA File

Penn Liberty Plaza I 1200 Penn Avenue Pittsburgh PA 15222

info@pgh2o.com T 412.255.2423 F 412.255.2475 www.pgh2o.com 9@pgh2o



Pittsburgh Water & Sewer Authority

MEMO

To: Barry King

From: Matt Smuts

Date: May 15, 2019

#### Subject: DEP Sewage Planning Module – Section J. Chapter 94 Consistency Determination, Calculation Review for: Commonwealth Building

Upon review of the submittal by Langan Engineering and Environmental Services for the above referenced development I have determined that the projected flows are less than the design capacity of the PWSA sewers and, therefore the sewers should have adequate capacity for the proposed development.

Penn Liberty Plaza I 1200 Penn Avenue Pittsburgh PA 15222 info@pgh2o.com T 412.255.2423 F 412.255.2475 www.pgh2o.com

<b>DEP Sewage Planning Module</b>	nning Module				Date: 5/15/2019	2019
Section J. Chapt	Section J. Chapter 94 Consistency Deter	etermination			<b>Calculation Review</b>	view
					By: M. Smuts	its
	PROJECT NAME: Comm	PROJECT NAME: Commonwealth Building, 316 4th Ave	1th Ave			
	PROJECT FLOW:	27,012 gpd				
<u>Formulas</u>						
Manning Equation:	on:		Q, flow, cfs			
°,	Q= (1.49/n)*A*R^(2/3)*S^	*S^(1/2)	n, roughness coefficient	oefficient		
=0	O= 2 arccos ((r-d/r))		S, slope from	S, slope from PWSA records (ft/ft)		
A=	A= r^2( O - sin O)/2		D, sewer diameter, ft	eter, ft		
P <sub>w</sub> = r*⊝	г*О		d, depth of flo	d, depth of flow measured, ft , (SUBMITTED WITH REPORT)	JBMITTED WIT	H REPORT)
R <sub>H</sub> =	$R_{H} = A/P_{w}$		O, central angle, radians	e, radians		
			A, cross sectional area, ft^2	nal area, ft^2		
			Pw, wetted perimeter, ft	meter, ft		
			R <sub>H</sub> , hydraulic radius, ft	dius, ft		
SEWER PROPERTIES	TIES				Peaking Factor	r
=u	0.015	D=	3.00 ft		3.5 combin	combined sewers
S=	0.025	Material: Brick			3 sanitar)	sanitary sewers
DESIGN PEAK FL	DESIGN PEAK FLOW ( FLOWING FULL)		AVERAGE D	AVERAGE DESIGN FLOW		
QFULL =	59,125,281 gpd		(Average flo	(Average flow is design peak flow divided by peaking factor)	w divided by p	eaking factor)
Ξ	3.000 ft		Q <sub>FULL</sub> , avg=	16,892,937	gpd	
11 2	1.500 ft					
9=	6.28 rad					
A=	7.07 ft^2					
P <sub>w</sub> =	9.42 ft					
R <sub>H</sub> =	0.750 ft					
Q=	91.64 cfs					
PRESENT AVERAGE FLOW	VGE FLOW		PRESENT PEAK FLOW	AK FLOW		
Q <sub>AVG</sub> =	1,269,235 gpd		(Peak flow i	(Peak flow is peaking factor times the present average flow)	ies the present	t average flow)

Ð			*Flow Depth	Q <sub>peak</sub> =	4,442,322 gpd	
"	1.500 ft	ft				
0=	1.30 rad	rad				
A=	0.3751 ft <sup>^</sup>	ft^2				
P <sub>w</sub> d	1.944 ft	Ĥ				
R <sub>H</sub> =	0.1930 ft	Ŧ				
Q=	1.967 cfs	cfs				
PROJECTED AVERAGE FLOW	ERAGE FLOW			PROJECTED PEAK FLOW	K FLOW	
	QAVG, PROJECTED <sup>=</sup> Qp	Qpeak projected /peaking factor	oeaking factor	QPK, PROJECTED <sup>=</sup> (PI	Q <sub>PK, PROJECTED</sub> = (Present Peak flow + Project Flow) * 1.05	Project Flow)
	QAVG, PROJECTED=	1,340,800 gpd	σ	QPEAK, PROJECTED=	<b>4,692,801</b> gpd	
VALUES BY ENGINEER	SINEER	% DIFFERENCE				
Q,full	58,624,409	-1%	*Design an	*Design and/or Permitted Capacity Peak in gpd	acity Peak in gpd	
Qfull, avg	16,749,831	-1%				
Qavg	1,256,465	-1%				
Qpeak	4,397,629	-1%				
Qavg,proj	1,347,651	1%				
Qpeak, proj	4,716,779	1%	Projected p	Projected peak flow, not peak design flow	design flow	



Pittsburgh Water & Sewer Authority

May 17, 2019

Mr. Thomas Flanagan Sewage Planning Specialist Supervisor PA Department of Environmental Protection 400 Waterfront Drive Pittsburgh, PA 15222

RE: Commonwealth Building 316 Fourth Avemue - 15222 Sewage Facilities Planning Module Sewer Tap Allocation

Dear Mr. Flanagan:

The Pittsburgh Water and Sewer Authority (PWSA) would like to authorize the use of the 2019 Sewer Tap Allocations for the following project:

Commonwealth Building 316 Fourth Ave - 15222 4th Ward - City of Pittsburgh 27,012 Gallons Per Day = 67.53 DEP EDU's (400gpd/EDU)

If you have any questions, please feel free to contact me at (412) 255-8800 x 2663

Sincerely,

Matthew Smuts Associate Project Manager

CC (via email):

Benjamin Hunter - Langan Regis Ryan - PA DEP William Vincett - PA DEP Kate Mechler - PWSA Julie Asciolla - PWSA PWSA File

Penn Liberty Plaza I 1200 Penn Avenue Pittsburgh PA 15222 info@pgh2o.com T 412 255 2423 F 412 255 2475 www.pgh2o.com У @pgh2o

#### alcosan

Members of the Board

Sylvia C. Wilson Chair Person

Gregory A. Jones Jack Shea Rep. Harry Readshaw John Weinstein Corey O'Connor Brenda L. Smith

Arletta Scott Williams Executive Director

Arthur M. Tamilia, Esq Director Environmental Compliance

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

Jeanne K. Clark Director Governmental Affairs

Joseph Vallarian Director Communications Mr. Ben Hunter, PE LANGAN 2400 Ansys Drive Suite 403 Canonsburg, PA 15317

allegheny county sanitary authority

#### Re: Commonwealth Building – City of Pittsburgh PA DEP Sewage Facilities Planning Module ALCOSAN Regulator Structure M-03-00

Dear Mr. Hunter:

We have reviewed the Planning Module Component 3 for the referenced project to be located in the City of Pittsburgh. The project will generate an estimated flow of 27,012 GPD in the ALCOSAN Monongahela Interceptor and Woods Run Treatment Plant.

The capacity at the M-03-00 Regulator Structure is approximately 16.6 MGD. The monitored peak dry weather flow is approximately 1.72 MGD. Dry weather capacity exists for this connection. However, the ALCOSAN Monongahela Interceptor and the Woods Run Treatment Plant do not have the capacity for the flows generated during wet weather periods. This limitation will be addressed as ALCOSAN implements the 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 412-732-8004.

Sincerely,

#### ALLEGHENY COUNTY SANITARY AUTHORITY

Michael Lichte, P.E. Manager of Planning

Attachment

cc: Tina Dean (w/o attachment) D. Thornton (w/o attachment) Shawn McWilliams (w/o attachment) Barry King, PWSA (w/o attachment) T. Flanagan, PADEP (w/o attachment) M. Scheer, ACHD (w/o attachment)

# **APPENDIX B** Resolution for Plan Revision for New Land Development

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 Commonwealth Building, 316 Fourth Avenue, Pittsburgh, PA 15222.

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**, Pitt Commonwealth Owner, LLC has proposed the development of a certain parcel of land 316 Fourth Avenue, Pittsburgh, PA 15222, Allegheny County, at lot and block 1-H-330, in the 1st 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 proposed Commonwealth Building, 316 Fourth Avenue, Pittsburgh, PA 15222, Allegheny County, at lot and block 1-H-330, in the 1st 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.

#### **Summary of Proposed Legislation**

Bill # / Title	Sewage Facilities Planning Module – Commonwealth Building
Department:	Law Department
Contact Person:	Benjamin Smith – (412) 255-2014

Ordinance	Contract Authorization	Capital Budget Amendment	Capital Encumbrance	Proclamation	Other
					Х

#### DESCRIPTION/PURPOSE:

Pitt Commonwealth Owner, LLC has proposed the development of a certain parcel of land identified the Commonwealth Building 316 Fourth Avenue, Pittsburgh, PA 15222, Allegheny County at 1-H-330, in the First 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

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

#### HISTORY:

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.

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 Planning Module in regard to each authority/department's expertise and have approved the respective components as explained in the Planning Module.

Based upon the approval of the above authorities and departments, the 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.

# **BUDGETARY IMPACT:** N/A

#### ATTACHMENTS AND/OR EXHIBITS:

Attach additional information such as maps, pictures, spreadsheets, studies, correspondence or any other supporting documents for this legislation.

#### Seven Priorities of the Joint Council-Mayor Proclamation

- 1. Identify operational efficiencies through shared or consolidated services.
- 2. Reduce the legacy costs associated with Pittsburgh's city government for future generations.
- **3.** Guarantee excellence in service and equity of provision through performance measures and standards.
- **4.** Increase access to, pride of and confidence in all city services by ensuring equity in the provision of those services to all Pittsburghers.
- 5. Improve the quality of life for future generations by identifying current land use opportunities and challenges facing the City of Pittsburgh.
- 6. Reduce the impact on the environment of *Pittsburgh city government's operations and services.*
- 7. Ensure the ethical operation of the offices of the Mayor and City Council.

#### **City of Pittsburgh**

#### Sewer Facilities Planning Module Questionnaire

#### PROJECT NAME: Commonwealth Building

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

Commercial, office building

#### 2) What is the proposed use for the property?

Mixed use, retail and residential

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

The proposed stormwater management system includes inlets and underground stormwater laterals for conveyance. The proposed site improvements will create less than 10,000 square feet of disturbance, and therefore is exempt from implementing a stormwater management plan.

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

After the implementation of the proposed stormwater management system, the development will result in a net neutral change in stormwater flow.

# **APPENDIX C**

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



pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

#### 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 **E**.

#### A. **PROJECT INFORMATION** (See Section A of instructions)

1. Project Name Commonwealth Building

Brief Project Description Pitt Commonwealth Owner, LLC is proposing to renovate the existing Commonwealth 2. Building. The project consists of a residential conversion of existing office space. The proposed improvements will include ground floor retail or residential with lobby space and 2<sup>nd</sup> and 3<sup>rd</sup> floor amenity space and apartments. It is anticipated that the existing curb will remain and be reused and all existing dry utilities for the building will remain and provide adequate service for the proposed improvements. Existing storm, sanitary, and water service to the building will be terminated and replaced with proposed laterals. Storm and sanitary laterals will extend from the building and connect into the PWSA 24-in combination sewer in Fourth Ave (North of the site) in order to provide adequate service for the proposed improvements. Proposed water service to the site will be provided via an 8-inch fire water service line and a 6-inch domestic water service line that will connect from the building to the PWSA main located north of the site in Fourth Avenue.

#### В. CLIENT (MUNICIPALITY) INFORMATION (See Section B of instructions) **Municipality Name** County City Boro Twp $\boxtimes$ City of Pittsburgh Allegheny Municipality Contact Individual - Last Name First Name MI Suffix Title **Director of Engineering** Kina Barry Additional Individual Last Name First Name MI Suffix Title С Smuts Matthew Associate Project Manager

Municipality Mailing Address Line 1

Mailing Address Line 2

Pittsburgh Water and Sewer	Penn Liberty Plaza I, 1200 Penn Avenue				
Address Last Line City	•••		State	ZIP+4	
Pittsburgh			PA	15222	
Area Code + Phone + Ext.	FAX (optiona	l)	Emai	il (optional)	
412-255-8800				g@pgh2o.com	
	<b>ON</b> (See Section C of instruc	tions)		<u>, , , , , , , , , , , , , , , , , , , </u>	
Site (Land Development or					
Commonwealth Building					
Site Location Line 1 316 Fourth Ave.		Site Location	Line 2		
Site Location Last Line Cit Pittsburgh	PA	152	222	Latitude 40°26'20.5'	
River Avenue and then bear Isabella St and then make a until it becomes 6 <sup>th</sup> St. Once on Fourth Ave and the destir		Aake a quick left ol Bridge and co ood St. Continu	t onto Ando ontinue stra e on Wood	erson St followed by a aight onto 7 <sup>th</sup> St. Cont d St for 0.2 miles and	a quick right onto inue on 7 <sup>th</sup> St then make a left
Building. The exterior of the etc.)	ing project site contains a two site consists of sidewalks and				
Site Contact (Developer/Ov	•				
Last Name	First Name	MI	Suffix	Phone	Ext.
Houck	Brent	Cita Cantaat Fi		412-391-2884	
	Site Contact Title Site Contact Firm (if none, leave blank)				
Principal Pitt Commonwealth Owner, LLC					
· · · · · · · · · · · · · · · · · · ·			ealth Owne	er, LLC	
FAX		Email		er, LLC	
FAX 412-391-1657		Email bhouck@pwwg	arch.com	er, LLC	
FAX 412-391-1657 Mailing Address Line 1		Email	arch.com	er, LLC	
FAX 412-391-1657 Mailing Address Line 1 408 Boulevard of the Allies	City	Email bhouck@pwwg Mailing Address	arch.com s Line 2		
FAX 412-391-1657 Mailing Address Line 1 408 Boulevard of the Allies Mailing Address Last Line	City	Email bhouck@pwwg Mailing Address State	arch.com s Line 2 ZIF	P+4	
FAX 412-391-1657 Mailing Address Line 1 408 Boulevard of the Allies Mailing Address Last Line Pittsburgh		Email bhouck@pwwg Mailing Address State PA	arch.com s Line 2 ZIF 152	2+4 219-1301	
FAX 412-391-1657 Mailing Address Line 1 408 Boulevard of the Allies Mailing Address Last Line Pittsburgh <b>D. PROJECT CONSU</b>	JLTANT INFORMATION	Email bhouck@pwwg Mailing Address State PA (See Section D	arch.com s Line 2 ZIF 152	2+4 219-1301 ctions)	Suffix
FAX 412-391-1657 Mailing Address Line 1 408 Boulevard of the Allies Mailing Address Last Line Pittsburgh <b>D. PROJECT CONSU</b> Last Name	JLTANT INFORMATION First N	Email bhouck@pwwg Mailing Address State PA (See Section D	arch.com s Line 2 ZIF 152	2+4 219-1301	Suffix
FAX 412-391-1657 Mailing Address Line 1 408 Boulevard of the Allies Mailing Address Last Line Pittsburgh <b>D. PROJECT CONSU</b>	JLTANT INFORMATION First N Scott	Email bhouck@pwwg Mailing Address State PA I (See Section D lame	arch.com s Line 2 ZIF 152 9 of instruc	2+4 219-1301 ctions)	Suffix
FAX 412-391-1657 Mailing Address Line 1 408 Boulevard of the Allies Mailing Address Last Line Pittsburgh <b>D. PROJECT CONSU</b> Last Name Rowland Title	JLTANT INFORMATION First N Scott Consu	Email bhouck@pwwg Mailing Address State PA I (See Section D lame	arch.com s Line 2 ZIF 152 o of instruc	P+4 219-1301 tions) MI	Suffix
FAX 412-391-1657 Mailing Address Line 1 408 Boulevard of the Allies Mailing Address Last Line Pittsburgh <b>D. PROJECT CONSU</b> Last Name Rowland	JLTANT INFORMATION First N Scott Consu	Email bhouck@pwwg Mailing Address State PA I (See Section D lame	arch.com s Line 2 ZIF 152 o of instruc e Environm	P+4 219-1301 tions) MI	Suffix
FAX 412-391-1657 Mailing Address Line 1 408 Boulevard of the Allies Mailing Address Last Line Pittsburgh <b>D. PROJECT CONSU</b> Last Name Rowland Title Senior Associate/Vice Presid	JLTANT INFORMATION First N Scott Consu	Email bhouck@pwwg Mailing Address State PA (See Section D lame Iting Firm Name n Engineering &	arch.com s Line 2 ZIF 152 o of instruc e Environm	P+4 219-1301 tions) MI	Suffix
FAX         412-391-1657         Mailing Address Line 1         408 Boulevard of the Allies         Mailing Address Last Line         Pittsburgh         D. PROJECT CONSUL         Last Name         Rowland         Title         Senior Associate/Vice Preside         Mailing Address Line 1	JLTANT INFORMATION First N Scott Consu	Email bhouck@pwwg Mailing Address State PA I (See Section D lame Iting Firm Name n Engineering & Mailing Address	arch.com s Line 2 ZIF 152 o of instruc o of instruc s Line 2	P+4 219-1301 tions) MI	Suffix
FAX         412-391-1657         Mailing Address Line 1         408 Boulevard of the Allies         Mailing Address Last Line         Pittsburgh         D. PROJECT CONSUL         Last Name         Rowland         Title         Senior Associate/Vice Preside         Mailing Address Line 1         2400 Ansys Drive	JLTANT INFORMATION First N Scott Consu lent Langa	Email bhouck@pwwg Mailing Address State PA I (See Section D lame Iting Firm Name <u>n Engineering &amp;</u> Mailing Address Suite 403	arch.com s Line 2 ZIF 152 o of instruc o of instruc s Line 2	P+4 219-1301 tions) MI	Suffix
FAX         412-391-1657         Mailing Address Line 1         408 Boulevard of the Allies         Mailing Address Last Line         Pittsburgh         D. PROJECT CONSULAST Name         Rowland         Title         Senior Associate/Vice Preside         Mailing Address Line 1         2400 Ansys Drive         Address Last Line City	JLTANT INFORMATION First N Scott Consu lent Langa State	Email bhouck@pwwg Mailing Address State PA I (See Section D lame Iting Firm Name n Engineering & Mailing Address Suite 403 ZIP+4	arch.com s Line 2 ZIF 152 o of instruc o of instruc s Line 2	P+4 219-1301 stions) MI nental Services County	FAX

#### 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.
- $\boxtimes$  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.	PR	OPOSED WASTEWATER DISPOSAL FACILITIES (See Section G of instructions)
	serv	eck all boxes that apply, and provide information on collection, conveyance and treatment facilities and EDU' ved. This information will be used to determine consistency with Chapter 93 (relating to wastewater treatmer uirements).
	1.	COLLECTION SYSTEM
		a. Check appropriate box concerning collection system
		New collection system     Pump Station     Force Main
		☐ Grinder pump(s)
		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 <u>68</u>
		Connections 2 (1 sanitary, 1 storm)
		Name of:
		existing collection or conveyance system <u>Fourth Ave. 36-inch combined sewer.</u>
		existing interceptor Monongahela 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° 28' 34" N Longitude 80° 02' 44" W

b. The following certification statement must be completed and signed by the wastewater treatment facility permitee 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 Agents My lund D	Lichte
Agent Signature	Date 5 30 19
(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.
- I. 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 <u>www.dep.state.pa.us</u>, 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 <u>www.naturalheritage.state.pa.us</u>, 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 permitee. The permitee 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 27,012 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.

	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	16,749,831	58,624,409	1,256,465	4,397,629	1,347,651	4,716,779
Conveyance		10.6mg	13 met	1.72mot	143mid	1.84mgt
Treatment		250ml	194.8.1	250 mit	194.5mt	250 mt

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

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

 $\square$ 

а. П

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	A	
Name of Responsible Agent BARY KIND	1 /	
Agent Signature	Date{12}	_

- 7 -

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

c. Conveyance System

Name of Responsible Agent M. Charl D. Luchto	
Agent Signature	
Date53019	

4.

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

TA 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 Agent Signature Date 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.

#### Ο. **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.  $\boxtimes$ 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.

 $\square$  $\square$ Is the use of nutrient credits or offsets a part of this project?

If yes, attach a letter of intent to puchase 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)

**Q.** 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
res	INC

а. П 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.		
	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. Solution 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. Since 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?

Ρ.	ΡL		OTIFICATION REQUIREMENT cont'd. (See Section P of instructions)
	9. 10.		Does the project involve the use of large volume onlot sewage disposal systems (Flow > 10,000 gpd)? 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.	$\Box$	Will sewage facilities discharge into high quality or exceptional value waters?
		☐ the pu ☐ all cor	is a copy of: Iblic notice, nments received as a result of the notice, unicipal response to these comments.
		No comm	nents 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.

Ben Hunter, P.E.	Bit		
Name (Print)	Signature		
Senior Project Manager	3/5/2019		
Title	Date		
2400 Ansys Drive, Suite 403			
Canonsburg, PA 15317	724-514-5125		
Address	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 \$3,400.00 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

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.

# <u>68</u> Lots (or EDUs) X \$50.00 = \$ <u>3,400</u>

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:

#\_\_\_\_\_ Lots (or EDUs) X \$35.00 = \$\_

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

## LANGAN

Technical Excellence Practical Experience Client Responsiveness

#### SECTION F SEWAGE FACILITIES PLANNING MODULE COMPONENT 3

#### Re: Project Narrative Commonwealth Building City of Pittsburgh, Allegheny County, Pennsylvania Langan Project No.: 250063301

The project site is located at 316 Fourth Avenue between Wood Street and Smithfield Street, in the Golden Triangle Subdistrict A (GT-A) District within the City of Pittsburgh, Allegheny County, Pennsylvania. Pitt Commonwealth Owner, LLC is proposing to redevelop an approximately 0.19 acre parcel, parcel number 1-H-330. The proposed development will include ground floor retail or residential with lobby space and 2<sup>nd</sup> and 3<sup>rd</sup> floor amenity space and apartments. The proposed development will be owned and operated by Pitt Commonwealth Owner LLC.

Pitt Commonwealth Owner, LLC is proposing to renovate the existing building. The existing building has 20 stories plus a penthouse with a total GSF around 126,000 to 130,000 square feet. It is anticipated that the existing curb will remain and be reused and all existing dry utilities for the building will remain and provide adequate service for the proposed improvements. New storm, sanitary and water laterals are being proposed in order to provide adequate service for the proposed improvements.

The existing site has an estimated combined daily sanitary sewage flow of 12,809 gallons per day. Following the proposed renovation, the building will have an estimated combined daily sanitary sewage flow of 27,012, daily sanitary sewage flow calculations can be found in Appendix C. The proposed increase in combined daily sanitary sewage flow as a result of the proposed improvements is 14,203 gallons per day.

The proposed storm and sanitary service for the site will be provided by two separate private 10-inch PVC gravity laterals that will connect to the existing 36-inch PWSA combined sewer in Fourth Avenue (north of the site).

The existing water consumption is estimated to be the same as the existing combined daily sanitary sewage flow, 12,809 gallons per day. The proposed water demand is 27,012 gallons per day; therefore, the proposed increase in water demand as a result of the proposed improvements is 14,203 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.

Two proposed water laterals will provide water service to the site. Domestic water service will be provided via a 6-inch water lateral and fire water service will be provided via an 8-inch water lateral. Both water laterals will connect to the existing 12-inch PWSA main in Fourth Avenue.

### ANTICIPATED SEWAGE FLOW REFERENCE

#### TABLE 1: EXISTING PWSA SANITARY SEWAGE FLOW ESTIMATION

EXISTING SEWAGE FLOW ESTIMATION				
Unit Description	Number of Units	Anticipated Average Rate (GPD/Units) <sup>1</sup>	Anticipated Average Sewage Flow (GPD)	
Office	1273	10	12,730	
HVAC Condensate	-	-	79	
	12,809			
	33			

1 – Rate is based on the flow estimate defined in PA Code Title 25 Chapter 73 Paragraph 73.17.

2 – EDUs are based on 400 GPD/EDU.

PROPOSED SEWAGE FLOW ESTIMATION         Anticipated       Anticipated         Unit Description       Number       Average         of Units       Rate       Flow (GPD)							
Apartment: 1 Bedroom	129	150	19,350				
Apartment: 2 Bedroom	11	300	3,300				
Office (per employee)	8	10	80				
Restaurants (toilet and kitchen wastes per patron)	423	10	4,230				
HVAC Condensate	-	-	52				
	27,012						
	68						

### TABLE 2: PROPOSED PWSA SANITARY SEWAGE FLOW ESTIMATION

1 – Rate is based on the flow estimate defined in PA Code Title 25 Chapter 73 Paragraph 73.17.

2 – EDUs are based on 400 GPD/EDU.

#### PROPOSED SANITARY PIPE CALCULATIONS COMMONWEALTH BUILDING

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

#### FROM BLDG TO EXISTING SYSTEM IN FOURTH AVENUE

#### MINIMUM SLOPE WITHIN THIS ENTIRE RUN = 1.0%

MATERIAL	PVC	Q <sub>full</sub> , cfs	Q <sub>full</sub> , gpd	Q <sub>half</sub> , cfs	Q <sub>half</sub> , gpd	V <sub>max</sub> , fps	V <sub>half</sub> , fps
LENGTH, ft	20	2.60	1,677,200	1.25	805,056	5.47	4.76
DIAMETER, in	10						
SLOPE	1.00%	PIPE SIZED ACCORDINGLY: TRUE					
n	0.011	V <sub>max</sub> < 10 fps: TRUE					
Q <sub>max</sub> , gpd	27,012	V <sub>half</sub> > 2 fps: TRUE					
Q <sub>design</sub> , gpd	94,542						

#### COMMONWEALTH BUILDING Fourth Ave 36-IN PWSA Combination Sewer Dry Flow Comparison Calculations

Given Information	
Pipe Location:	Fourth Avenue
*Pipe Type:	Brick
Pipe Diameter (IN):	36
*Slope:	2.5%
Depth of Flow (IN) <sup>(1)</sup> :	3.65
Manning's n Value:	0.015
Solve for Dry Flow	
Radius of Pipe, r (IN):	18

Hadius of Pipe, r (IN):	18
Circular Segment Height, h (IN):	3.65
Central Angle, 0:	74.269
Flow Area, K (IN <sup>2</sup> ):	54.058
Wetted Perimeter (IN):	23.332
Hydraulic Radius (IN):	2.317
Hydraulic Radius (FT):	0.193
Velocity (FT/S):	5.180
Flow (CFS):	1.944
Flow (GPD):	1,256,465

Solve for Full Flow			
Flow (CFS):	90.723		
Flow (GPD):	58,624,409		

Solve for Present Peak Flow			
Peak Factor:	3.5		
Flow (GPD):	4,397,629		

Solve for Average Design/Permitted Capacity Flow (GPD): 16,749,831

Summary	
Anticipated Flow Contribution (GPD) <sup>10</sup>	27,012
Present Average Flow (GPD):	1,256,465
Present Peak Flow (GPD):	4,397,629
Design/Permitted Average Capacity (GPD):	16,749,831
Design/Permitted Peak Capacity (GPD):	58,624,409
Average Projected Flow (GPD)	1,347,651
Peak Projected Flow (GPD)	4,716,779

### $V = \frac{k}{n} R^{2/3} S^{1/2} \qquad k=1.4859 f t^{1/3} / s$

Q = VA

\*Information and values not field verified

1. Information estimated using the Flow Monitoring Report prepared by DRNACH Environmental, Inc. 2. Information estimated using Table 2-1 of the PWSA Procedures Manual of Developers.

step	solve for	if flow depth < radius		
	c			
I.	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	a = r×0		
\$	flow niea	A - K		
6	wetted perimeter	$P_{ip} = s$		
7	hydrautic radius	$R_b = \frac{A}{P_w}$		



## Fourth Avenue - 36 Inch PWSA Combined Sewer Flow Reading Data

	Time	Head	Velocity	Flow		Precip.
	-	inches	fps	MGD		inches
11/07/2018	12:00 AM					0.00
	1:00 AM					0.00 0.00
	2:00 AM					0.00
	3:00 AM 4:00 AM					0.00
	5:00 AM					0.00
	6:00 AM					0.00
	7:00 AM					0.00
	8:00 AM					0.00
	9:00 AM					0.00
	10:00 AM	4.04	0.44	0.110		0.00
	11:00 AM	3.91	0.41	0.095		0.00
	12:00 PM	3.90	0.37	0.085		0.00
	1:00 PM	4.00	0.32	0.077		0.00
	2:00 PM	3.94	0.39	0.096		0.00
	3:00 PM	3.79	0.35	0.078		0.00
	4:00 PM 5:00 PM	3.85 3.79	0.42 0.34	0.096 0.075		0.00 0.00
	5:00 PM 6:00 PM	3.79	0.34	0.075		0.00
	7:00 PM	3.75	0.30	0.062		0.00
	8:00 PM	3.71	0.27	0.058		0.00
	9:00 PM	3.86	0.30	0.070		0.00
	10:00 PM	3.75	0.23	0.049		0.00
	11:00 PM	3.68	0.25	0.052		0.00
	MIN	3.68	0.23	0.049	MIN	0.00
	MAX AVE	4.04 3.84	0.44 0.33	0.110 0.076	MAX TOTAL	0.00 0.00
	AVE	5.04	0.00	0.070	TOTAL	0.00
11/08/2018	12:00 AM	3.59	0.24	0.048		0.00
	1:00 AM	3.54	0.21	0.041		0.00
	2:00 AM	3.50	0.20	0.038		0.00
	3:00 AM	3.46	0.18	0.034		0.00
	4:00 AM	3.46	0.16	0.031		0.00
	5:00 AM	3.55	0.22	0.043		0.00
	6:00 AM	3.68	0.25	0.052		0.00 0.00
	7:00 AM 8:00 AM	3.86 3.80	0.30 0.29	0.069 0.065		0.00
	9:00 AM	3.85	0.23	0.000		0.00
	10:00 AM	3.73	0.27	0.058		0.00
	11:00 AM	3.79	0.42	0.093		0.00
	12:00 PM	3.79	0.42	0.093		0.00
	1:00 PM	3.74	0.37	0.079		0.00
	2:00 PM	3.75	0.41	0.089		0.00
	3:00 PM	3.68	0.43	0.091		0.00
	4:00 PM	3.81	0.37	0.083		0.00
	5:00 PM	3.77	0.32	0.069		0.00
	6:00 PM	3.71	0.33	0.070		0.00
	7:00 PM	3.71 3.67	0.37 0.40	0.079 0.084		0.00 0.00
	8:00 PM 9:00 PM	3.56	0.40	0.064		0.00
	10:00 PM	3.63	0.40	0.083		0.00
	11:00 PM	3.61	0.39	0.079		0.00
	MIN	3.46	0.16	0.031	MIN	0.00
	MAX	3.86	0.43	0.093	MAX	0.00
	AVE	3.68	0.32	0.067	TOTAL	0.00

	Time	Head	Velocity	Flow		Precip.
		inches	fps	MGD		inches
11/00/2019	12:00 414	3.51	0.32	0.062		0.00
11/09/2018	12:00 AM 1:00 AM	3.49	0.32	0.062		0.00
	2:00 AM	3.50	0.33	0.063		0.00
	3:00 AM	3.46	0.28	0.053		0.00
	4:00 AM	3.39	0.20	0.037		0.00
	5:00 AM	3.54	0.34	0.069		0.00
	6:00 AM	5.09	1.33	0.495		0.12
	7:00 AM	4.43	1.03	0.306		0.05
	8:00 AM	4.13	0.78	0.203		0.01
	9:00 AM	4.73	1.20	0.388		0.07
	10:00 AM	4.77	1.21	0.391		0.06
	11:00 AM	4.78	1.15	0.373		0.06
	12:00 PM	5.07	1.46	0.521		0.08
	1:00 PM	4.80	1.24	0.408		0.06
	2:00 PM 3:00 PM	4.68 4.19	1.22 0.94	0.385 0.246		0.06 0.02
	3:00 PM 4:00 PM	4.19	0.94	0.240		0.02
	4.00 PM	3.71	0.54	0.170		0.00
	6:00 PM	3.66	0.51	0.107		0.00
	7:00 PM	3.63	0.44	0.091		0.00
	8:00 PM	3.58	0.36	0.073		0.00
	9:00 PM	3.58	0.36	0.072		0.00
	10:00 PM	3.62	0.35	0.071		0.00
	11:00 PM	3.63	0.50	0.102		0.00
		2.20	0.00	0.007		0.00
	MIN MAX	3.39 5.09	0.20 1.46	0.037 0.521	MIN MAX	0.00 0.12
	AVE	4.04	0.71	0.203	TOTAL	0.61
11/10/2018	12:00 AM	3.51	0.45	0.089		0.00
	1:00 AM	3.51	0.45	0.088		0.00
	2:00 AM	3.45	0.34	0.065		0.00
	3:00 AM	3.38	0.28	0.051		0.00
	4:00 AM	3.35	0.25	0.044		0.00
	5:00 AM	3.36	0.25	0.045		0.00 0.00
	6:00 AM 7:00 AM	3.37 3.34	0.26 0.26	0.047 0.047		0.00
	8:00 AM	3.44	0.33	0.062		0.00
	9:00 AM	3.65	0.61	0.128		0.00
	10:00 AM	3.62	0.60	0.124		0.00
	11:00 AM	3.71	0.65	0.138		0.00
	12:00 PM	3.52	0.49	0.095		0.00
	1:00 PM	3.67	0.62	0.129		0.00
	2:00 PM	3.53	0.50	0.099		0.00
	3:00 PM	3.67	0.61	0.128		0.00
	4:00 PM	3.61	0.58	0.122		0.00
	5:00 PM	3.56	0.60 0.52	0.119		0.00
	6:00 PM	3.49 3.44	0.52 0.46	0.100 0.088		0.00 0.00
	7:00 PM 8:00 PM	3.44 3.37	0.46	0.088		0.00
	9:00 PM	3.46	0.50	0.070		0.00
	10:00 PM	3.51	0.60	0.000		0.00
	11:00 PM	3.50	0.57	0.111		0.00
	MIN	3.34	0.25	0.044	MIN	0.00
	MAX	3.71	0.65	0.138	MAX	0.00
	AVE	3.50	0.47	0.092	TOTAL	0.00

	Time	Head	Velocity	Flow		Precip.
		inches	fps	MGD		inches
		0.07	0.07	0.007		0.00
11/11/2018	12:00 AM 1:00 AM	3.37 3.42	0.37 0.47	0.067 0.087		0.00 0.00
	2:00 AM	3.38	0.36	0.066		0.00
	3:00 AM	3.38	0.36	0.066		0.00
	4:00 AM	3.32	0.29	0.050		0.00
	5:00 AM	3.32	0.29	0.051		0.00
	6:00 AM	3.29	0.26	0.044		0.00
	7:00 AM	3.24	0.23	0.038		0.00
	8:00 AM	3.32	0.33	0.060		0.00
	9:00 AM	3.56	0.56	0.112		0.00
	10:00 AM	3.77	0.78	0.170		0.00
	11:00 AM	3.80	0.74	0.163		0.00
	12:00 PM	3.74	0.94	0.202		0.00
	1:00 PM	3.87	0.81	0.186		0.00
	2:00 PM	3.79 3.75	0.71 0.61	0.159 0.132		0.00 0.00
	3:00 PM 4:00 PM	3.75	0.01	0.132		0.00
	4:00 PM	3.84	0.72	0.160		0.00
	6:00 PM	3.85	0.72	0.164		0.00
	7:00 PM	3.76	0.72	0.157		0.00
	8:00 PM	3.77	0.61	0.135		0.00
	9:00 PM	3.77	0.54	0.117		0.00
	10:00 PM	3.77	0.50	0.110		0.00
	11:00 PM	3.71	0.49	0.104		0.00
	MIN	3.24	0.23	0.038	MIN	0.00
	MAX	3.87	0.23	0.202	MAX	0.00
	AVE	3.61	0.55	0.115	TOTAL	0.00
11/12/2018	12:00 AM	3.68	0.45	0.095		0.00
	1:00 AM	3.62	0.42	0.085		0.00
	2:00 AM	3.59 3.58	0.41 0.39	0.083 0.079		0.00 0.00
	3:00 AM 4:00 AM	3.58	0.39	0.079		0.00
	4:00 AM	3.62	0.40	0.088		0.00
	6:00 AM	3.68	0.41	0.086		0.00
	7:00 AM	3.84	0.47	0.105		0.00
	8:00 AM	3.82	0.69	0.154		0.00
	9:00 AM	3.72	0.64	0.137		0.00
	10:00 AM	3.74	0.62	0.135		0.00
	11:00 AM	3.78	0.62	0.137		0.00
	12:00 PM	3.77	0.55	0.121		0.00
	1:00 PM	3.88	0.73	0.170		0.00
	2:00 PM	3.73	0.70	0.151		0.00
	3:00 PM	3.69 3.85	0.66 0.79	0.140 0.179		0.00 0.00
	4:00 PM 5:00 PM	3.82	0.58	0.175		0.00
	6:00 PM	3.65	0.35	0.073		0.00
	7:00 PM	3.61	0.32	0.065		0.00
	8:00 PM	3.68	0.32	0.068		0.00
	9:00 PM	3.79	0.47	0.105		0.00
	10:00 PM	3.75	0.43	0.095		0.01
	11:00 PM	3.65	0.28	0.058		0.00
I	MIN	3.57	0.28	0.058	MIN	0.00
	MAX	3.88	0.28	0.038	MAX	0.00
	AVE	3.71	0.51	0.109	TOTAL	0.01
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11/13/2018         12:00 AM         3.98         0.57         0.143           1:00 AM         4.43         0.78         0.224           2:00 AM         4.32         0.72         0.199           3:00 AM         4.24         0.70         0.189           4:00 AM         4.11         0.68         0.172           5:00 AM         3.78         0.62         0.137           6:00 AM         3.61         0.52         0.105           7:00 AM         3.80         0.52         0.115           8:00 AM         3.76         0.43         0.093           9:00 AM         3.94         0.36         0.087           10:00 AM         3.92         0.46         0.112           11:00 AM         3.81         0.30         0.067           12:00 PM         3.79         0.22         0.049           4:00 PM         3.83         0.23         0.052           2:00 PM         3.84         0.22         0.049           4:00 PM         3.76         0.16         0.035           5:00 PM         3.69         0.14         0.031           7:00 PM         3.74         0.16         0.035	nches 0.01 0.04 0.02 0.03 0.00
1:00 AM       4.43       0.78       0.224         2:00 AM       4.32       0.72       0.199         3:00 AM       4.24       0.70       0.189         4:00 AM       4.11       0.68       0.172         5:00 AM       3.78       0.62       0.137         6:00 AM       3.61       0.52       0.105         7:00 AM       3.80       0.52       0.115         8:00 AM       3.76       0.43       0.093         9:00 AM       3.94       0.36       0.087         10:00 AM       3.92       0.46       0.112         11:00 AM       3.81       0.30       0.067         12:00 PM       3.79       0.22       0.049         1:00 PM       3.83       0.23       0.052         2:00 PM       3.84       0.25       0.057         3:00 PM       3.69       0.14       0.035         5:00 PM       3.74       0.16       0.035         5:00 PM       3.63       0.17       0.036         8:00 PM       3.63       0.17       0.036         9:00 PM       3.64       0.18       0.038         MIN       3.61       0.14	0.04 0.02 0.03 0.00 0.00 0.00 0.00 0.00 0.00
1:00 AM       4.43       0.78       0.224         2:00 AM       4.32       0.72       0.199         3:00 AM       4.24       0.70       0.189         4:00 AM       4.11       0.68       0.172         5:00 AM       3.78       0.62       0.137         6:00 AM       3.61       0.52       0.105         7:00 AM       3.80       0.52       0.115         8:00 AM       3.76       0.43       0.093         9:00 AM       3.94       0.36       0.087         10:00 AM       3.92       0.46       0.112         11:00 AM       3.81       0.30       0.067         12:00 PM       3.79       0.22       0.049         1:00 PM       3.83       0.23       0.052         2:00 PM       3.84       0.25       0.057         3:00 PM       3.84       0.22       0.49         4:00 PM       3.76       0.16       0.035         5:00 PM       3.63       0.17       0.036         8:00 PM       3.63       0.17       0.036         9:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18	0.04 0.02 0.03 0.00 0.00 0.00 0.00 0.00 0.00
3:00 AM       4.24       0.70       0.189         4:00 AM       4.11       0.68       0.172         5:00 AM       3.78       0.62       0.137         6:00 AM       3.61       0.52       0.105         7:00 AM       3.80       0.52       0.115         8:00 AM       3.76       0.43       0.093         9:00 AM       3.94       0.36       0.087         10:00 AM       3.92       0.46       0.112         11:00 AM       3.81       0.30       0.067         12:00 PM       3.79       0.22       0.049         1:00 PM       3.83       0.23       0.052         2:00 PM       3.84       0.25       0.057         3:00 PM       3.84       0.22       0.049         4:00 PM       3.76       0.16       0.035         5:00 PM       3.69       0.14       0.031         7:00 PM       3.63       0.17       0.036         8:00 PM       3.63       0.17       0.035         9:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038         MIN       3.61       0.14	0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.00
4:00 AM       4.11       0.68       0.172         5:00 AM       3.78       0.62       0.137         6:00 AM       3.61       0.52       0.105         7:00 AM       3.80       0.52       0.115         8:00 AM       3.76       0.43       0.093         9:00 AM       3.94       0.36       0.087         10:00 AM       3.92       0.46       0.112         11:00 AM       3.81       0.30       0.067         12:00 PM       3.79       0.22       0.049         1:00 PM       3.83       0.23       0.052         2:00 PM       3.84       0.25       0.057         3:00 PM       3.84       0.22       0.049         4:00 PM       3.76       0.16       0.035         5:00 PM       3.74       0.16       0.035         6:00 PM       3.63       0.17       0.036         8:00 PM       3.64       0.18       0.036         10:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038         MIN       3.61       0.14       0.031       MIN         MAX       4.43 <td< th=""><th>0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.00</th></td<>	0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.00
5:00 AM       3.78       0.62       0.137         6:00 AM       3.61       0.52       0.105         7:00 AM       3.80       0.52       0.115         8:00 AM       3.76       0.43       0.093         9:00 AM       3.94       0.36       0.087         10:00 AM       3.92       0.46       0.112         11:00 AM       3.81       0.30       0.067         12:00 PM       3.79       0.22       0.049         1:00 PM       3.83       0.23       0.052         2:00 PM       3.84       0.25       0.057         3:00 PM       3.84       0.22       0.049         4:00 PM       3.76       0.16       0.035         5:00 PM       3.74       0.16       0.035         6:00 PM       3.69       0.14       0.031         7:00 PM       3.64       0.18       0.036         9:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038         MIN       3.61       0.14       0.031       MIN         MAX       4.43       0.78       0.224       MAX         AVE       3.85<	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
6:00 AM       3.61       0.52       0.105         7:00 AM       3.80       0.52       0.115         8:00 AM       3.76       0.43       0.093         9:00 AM       3.94       0.36       0.087         10:00 AM       3.92       0.46       0.112         11:00 AM       3.81       0.30       0.067         12:00 PM       3.79       0.22       0.049         1:00 PM       3.83       0.23       0.052         2:00 PM       3.84       0.25       0.057         3:00 PM       3.84       0.22       0.049         4:00 PM       3.76       0.16       0.035         5:00 PM       3.69       0.14       0.031         7:00 PM       3.69       0.14       0.031         7:00 PM       3.63       0.17       0.036         8:00 PM       3.63       0.17       0.035         9:00 PM       3.64       0.18       0.036         10:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
7:00 AM       3.80       0.52       0.115         8:00 AM       3.76       0.43       0.093         9:00 AM       3.94       0.36       0.087         10:00 AM       3.92       0.46       0.112         11:00 AM       3.81       0.30       0.067         12:00 PM       3.79       0.22       0.049         1:00 PM       3.83       0.23       0.052         2:00 PM       3.84       0.25       0.057         3:00 PM       3.84       0.22       0.049         4:00 PM       3.76       0.16       0.035         5:00 PM       3.69       0.14       0.031         7:00 PM       3.69       0.14       0.031         7:00 PM       3.63       0.17       0.035         9:00 PM       3.63       0.17       0.035         9:00 PM       3.64       0.18       0.036         10:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
8:00 AM       3.76       0.43       0.093         9:00 AM       3.94       0.36       0.087         10:00 AM       3.92       0.46       0.112         11:00 AM       3.81       0.30       0.067         12:00 PM       3.79       0.22       0.049         1:00 PM       3.83       0.23       0.052         2:00 PM       3.84       0.25       0.057         3:00 PM       3.84       0.22       0.049         4:00 PM       3.76       0.16       0.035         5:00 PM       3.74       0.16       0.035         6:00 PM       3.69       0.14       0.031         7:00 PM       3.74       0.17       0.036         8:00 PM       3.63       0.17       0.035         9:00 PM       3.64       0.18       0.036         10:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
9:00 AM       3.94       0.36       0.087         10:00 AM       3.92       0.46       0.112         11:00 AM       3.81       0.30       0.067         12:00 PM       3.79       0.22       0.049         1:00 PM       3.83       0.23       0.052         2:00 PM       3.84       0.25       0.057         3:00 PM       3.84       0.22       0.049         4:00 PM       3.76       0.16       0.035         5:00 PM       3.74       0.16       0.035         6:00 PM       3.69       0.14       0.031         7:00 PM       3.74       0.17       0.036         8:00 PM       3.63       0.17       0.035         9:00 PM       3.64       0.18       0.036         10:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
10:00 AM       3.92       0.46       0.112         11:00 AM       3.81       0.30       0.067         12:00 PM       3.79       0.22       0.049         1:00 PM       3.83       0.23       0.052         2:00 PM       3.84       0.25       0.057         3:00 PM       3.84       0.22       0.049         4:00 PM       3.76       0.16       0.035         5:00 PM       3.74       0.16       0.035         6:00 PM       3.69       0.14       0.031         7:00 PM       3.74       0.17       0.036         8:00 PM       3.63       0.17       0.035         9:00 PM       3.64       0.18       0.036         10:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
11:00 AM       3.81       0.30       0.067         12:00 PM       3.79       0.22       0.049         1:00 PM       3.83       0.23       0.052         2:00 PM       3.84       0.25       0.057         3:00 PM       3.84       0.22       0.049         4:00 PM       3.76       0.16       0.035         5:00 PM       3.74       0.16       0.035         6:00 PM       3.69       0.14       0.031         7:00 PM       3.74       0.17       0.036         8:00 PM       3.63       0.17       0.035         9:00 PM       3.64       0.18       0.036         10:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
12:00 PM       3.79       0.22       0.049         1:00 PM       3.83       0.23       0.052         2:00 PM       3.84       0.25       0.057         3:00 PM       3.84       0.22       0.049         4:00 PM       3.76       0.16       0.035         5:00 PM       3.74       0.16       0.035         6:00 PM       3.69       0.14       0.031         7:00 PM       3.74       0.17       0.036         8:00 PM       3.63       0.17       0.035         9:00 PM       3.64       0.18       0.036         10:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
1:00 PM       3.83       0.23       0.052         2:00 PM       3.84       0.25       0.057         3:00 PM       3.84       0.22       0.049         4:00 PM       3.76       0.16       0.035         5:00 PM       3.74       0.16       0.035         6:00 PM       3.69       0.14       0.031         7:00 PM       3.74       0.17       0.036         8:00 PM       3.63       0.17       0.035         9:00 PM       3.64       0.18       0.036         10:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038         MIN       3.61       0.14       0.031       MIN         MAX       4.43       0.78       0.224       MAX         AVE       3.85       0.37       0.089       TOTAL	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
2:00 PM       3.84       0.25       0.057         3:00 PM       3.84       0.22       0.049         4:00 PM       3.76       0.16       0.035         5:00 PM       3.74       0.16       0.035         6:00 PM       3.69       0.14       0.031         7:00 PM       3.74       0.17       0.036         8:00 PM       3.63       0.17       0.035         9:00 PM       3.64       0.18       0.036         10:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038         MIN       3.61       0.14       0.031       MIN         MAX       4.43       0.78       0.224       MAX         AVE       3.85       0.37       0.089       TOTAL	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
3:00 PM       3.84       0.22       0.049         4:00 PM       3.76       0.16       0.035         5:00 PM       3.74       0.16       0.035         6:00 PM       3.69       0.14       0.031         7:00 PM       3.74       0.17       0.036         8:00 PM       3.63       0.17       0.035         9:00 PM       3.64       0.18       0.036         10:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038         MIN       3.61       0.14       0.031       MIN         MAX       4.43       0.78       0.224       MAX         AVE       3.85       0.37       0.089       TOTAL	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
4:00 PM       3.76       0.16       0.035         5:00 PM       3.74       0.16       0.035         6:00 PM       3.69       0.14       0.031         7:00 PM       3.74       0.17       0.036         8:00 PM       3.63       0.17       0.035         9:00 PM       3.64       0.18       0.036         10:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038         MIN       3.61       0.14       0.031       MIN         MAX       4.43       0.78       0.224       MAX         AVE       3.85       0.37       0.089       TOTAL	0.00 0.00 0.00 0.00 0.00 0.00 0.00
5:00 PM       3.74       0.16       0.035         6:00 PM       3.69       0.14       0.031         7:00 PM       3.74       0.17       0.036         8:00 PM       3.63       0.17       0.035         9:00 PM       3.64       0.18       0.036         10:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038         MIN       3.61       0.14       0.031       MIN         MAX       4.43       0.78       0.224       MAX         AVE       3.85       0.37       0.089       TOTAL	0.00 0.00 0.00 0.00 0.00 0.00
6:00 PM         3.69         0.14         0.031           7:00 PM         3.74         0.17         0.036           8:00 PM         3.63         0.17         0.035           9:00 PM         3.64         0.18         0.036           10:00 PM         3.62         0.17         0.034           11:00 PM         3.63         0.18         0.038           MIN         3.61         0.14         0.031         MIN           MAX         4.43         0.78         0.224         MAX           AVE         3.85         0.37         0.089         TOTAL	0.00 0.00 0.00 0.00 0.00
7:00 PM       3.74       0.17       0.036         8:00 PM       3.63       0.17       0.035         9:00 PM       3.64       0.18       0.036         10:00 PM       3.62       0.17       0.034         11:00 PM       3.63       0.18       0.038         MIN       3.61       0.14       0.031       MIN         MAX       4.43       0.78       0.224       MAX         AVE       3.85       0.37       0.089       TOTAL	0.00 0.00 0.00 0.00
8:00 PM         3.63         0.17         0.035           9:00 PM         3.64         0.18         0.036           10:00 PM         3.62         0.17         0.034           11:00 PM         3.63         0.18         0.038           MIN         3.61         0.14         0.031         MIN           MAX         4.43         0.78         0.224         MAX           AVE         3.85         0.37         0.089         TOTAL	0.00 0.00 0.00
9:00 PM         3.64         0.18         0.036           10:00 PM         3.62         0.17         0.034           11:00 PM         3.63         0.18         0.038           MIN         3.61         0.14         0.031         MIN           MAX         4.43         0.78         0.224         MAX           AVE         3.85         0.37         0.089         TOTAL	0.00 0.00
10:00 PM         3.62         0.17         0.034           11:00 PM         3.63         0.18         0.038           MIN         3.61         0.14         0.031         MIN           MAX         4.43         0.78         0.224         MAX           AVE         3.85         0.37         0.089         TOTAL	0.00
MIN3.610.140.031MINMAX4.430.780.224MAXAVE3.850.370.089TOTAL	0.00
MAX4.430.780.224MAXAVE3.850.370.089TOTAL	
MAX4.430.780.224MAXAVE3.850.370.089TOTAL	
AVE 3.85 0.37 0.089 TOTAL	0.00
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11/14/2018 12:00 AM 3.54 0.16 0.031	0.00
1:00 AM 3.39 0.14 0.026	0.00
2:00 AM 3.36 0.13 0.023	0.00
3:00 AM 3.33 0.13 0.023	0.00
4:00 AM 3.31 0.13 0.023	0.00
5:00 AM 3.36 0.12 0.022	0.00
6:00 AM 3.54 0.15 0.029	0.00
7:00 AM 3.74 0.25 0.054	0.00
8:00 AM 3.80 0.37 0.081	0.00
9:00 AM 3.77 0.36 0.079	0.00
10:00 AM 3.74 0.32 0.070	0.00
11:00 AM 3.80 0.70 0.155	0.00
12:00 PM 3.79 0.69 0.153	0.00
1:00 PM 3.80 0.68 0.152	0.00
2:00 PM 3.71 0.58 0.125	0.00
3:00 PM 3.81 0.63 0.144	0.00
4:00 PM 3.78 0.66 0.146	0.00 0.00
5:00 PM 3.85 0.64 0.147 6:00 PM 3.80 0.67 0.149	0.00
6:00 PM 3.80 0.67 0.149 7:00 PM 3.72 0.65 0.140	0.00
8:00 PM 3.75 0.73 0.158	0.00
9:00 PM 3.63 0.61 0.127	0.00
10:00 PM 3.53 0.51 0.101	
11:00 PM 3.51 0.47 0.093	0.00
	0.00 0.00
MIN 3.31 0.12 0.022 MIN	
MIN         3.31         0.12         0.022         MIN           MAX         3.85         0.73         0.158         MAX           AVE         3.64         0.44         0.094         TOTAL	0.00

## DOCUMENTATION FROM UTILITY COMPANIES

# PGHOO

Pittsburgh Water & Sewer Authority

September 13, 2018

я,

Mr. Ben Hunter Langan Engineering 2400 Ansys Drive, Suite 403 Canonsburg, PA 15317

#### RE: Water and Sewer Availability 316 Fourth Avenue - 15222 Mixed Use Development

Dear Mr. Hunter:

In response to your inquiry on 8/30/2018 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 (<u>www.pgh2o.com</u>) 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) 255-0841. Thank you.

Sincerely, dullar Michelle E. Carney Engineering Technician III

MEC

cc: PWSA File

www.pgh2o.com ℣@pgh2o

### PGH20 PITTSBURGH WATER AND SEWER AUTHORITY

#### WATER AND SEWER AVAILABILITY LETTER REQUEST FORM

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 <u>required</u> for all of the following types of development. (Please note that the term "sewer" refers to sanitary sewers, combined sewers, and storm sewers.)

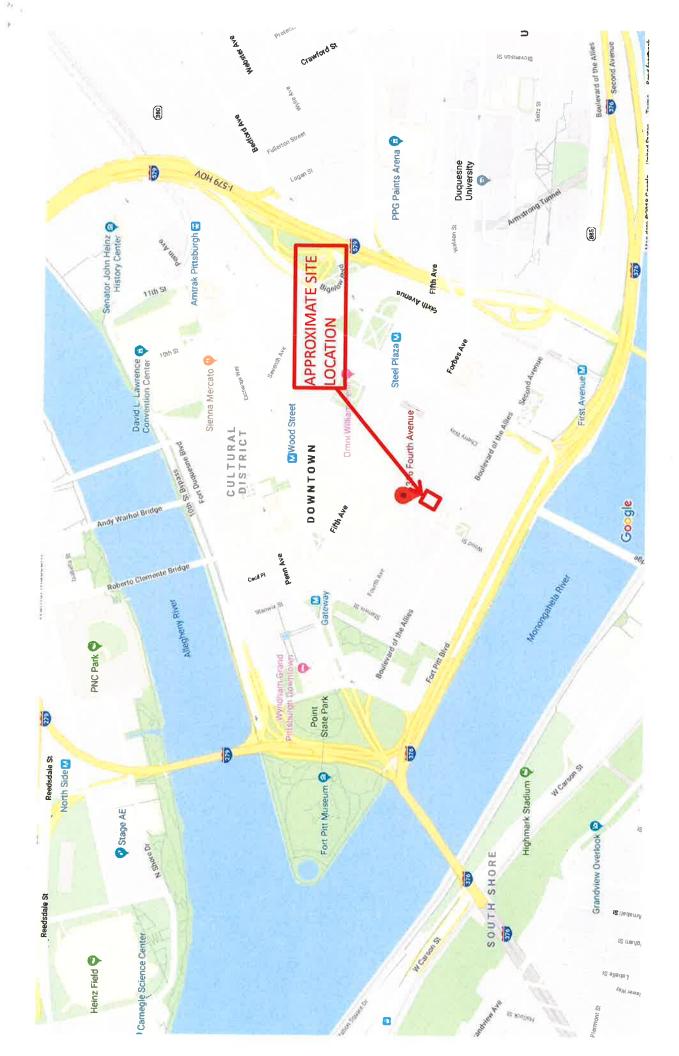
1. New water and/or sewer tap(s) for all approved/recorded subdivisions.

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- 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.

Information to be s	submitted by the Applicant:
Property Owner Nar	me: JON KNUDSEN
Address of Property	316 FOURTH AVENUE, PITTSBURGH, PA 15222
Proposed Use of Site	e: MIXED-USE DEVELOPMENT
	ection to the property; WOOD ST. AND FOURTH AVE.
Requestor Name:	BENJAMIN HUNTER (LANGAN) Date of Request: 08/30/2018
Requestor Address:	2400 ANSYS DRIVE, CANONSBURG, PA 15317
Requestor Phone Nu	amber: 724-514-5125
Please subm	hit the completed form to: Pittsburgh Water and Sewer Authority Engineering and Construction Division 1200 Penn Avenue Pittsburgh, PA 15222 Attn: Ms. Michelle Carney (mcarney@pgh2o.com)
PWSA Use Only:	BY.PCOST /NC
PWSA Water Servic	water Water INO Size / Location: 12" 4th Avenue
PWSA Sewer Servic	water Water Water Water See Available: Wes $\square$ No Size / Location: $\square'' + H' + Avenue Sewer Sewer Size / Location: \square'' + H' + Avenue$
Applicant must conta	act separate agency for water and/or sewer service: 🗌 Yes
Name of separate age	ency:
PWSA Approval Au	thority: Signature and Micholle E Carney 9-13-2018
	Name (printed) <u>Michelle Camey</u> Title <u>Engineoring Teolij</u>

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.







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BY: PUSA MC

August 28, 2018

Michelle Carney The Pittsburgh Water and Sewer Authority Penn Liberty Plaza – 1200 Penn Avenue Pittsburgh, PA 15222

#### Re: Water and Sewer Availability Request Commonwealth Building Pittsburgh, Pennsylvania Langan Project No.: 250063301

Dear Michelle:

This letter serves as a request for written verification of available water and sewer service to determine the feasibility of a residential conversion of the existing Commonwealth Building located within the Golden Triangle district in the City of Pittsburgh. The site is located at 316 Fourth Avenue. Please see attachment for the USGS Site Location Map.

The existing building has 20 stories plus a penthouse with a total GSF around 126,000 to 130,000 square feet. The proposed improvements will include ground floor retail or restaurant with lobby space. The 2<sup>nd</sup> and 3<sup>rd</sup> floors will be a mmix of amenity space and apartments. It is anticipated that there will be 150 apartments created.

We would like to confirm that sewer and water service is available for use at the site. Please reply by returning a copy of the form along with known Facility Mapping that would help us in this endeavor. Thank you for your attention to this matter.

Please contact me at (724) 514-5125 or by email at <u>bhunter@langan.com</u> if you should have any questions or need any additional information to review the submission.

Sincerely, Langan Engineering and Environmental Services, Inc.

Benjamin Hunter, PE, LEED AP Senior Project Manager

Enclosures: Water and Sewer Availability Letter Request Form Site Location Map

New Jersey • New York • Connecticut • Pennsylvania • Ohio • Washington, DC • Virginia • Florida • Texas • California Abu Dhabi • Athens • Doha • Dubai • Istanbul • London • Panama

### 316 4th Avenue



Le	gend	0	Water Manhole		Outfail
•	Meter		Rising Main		End Cap
	Pump		Supply Main		Sewer Pump Station
٠	Hydrant		Transmission Main		Combined Sewer
۰	Hydrant- Out of Service		Distribution Main		Sanitary Sewer
۲	System Valve		Hydrant Branch		Storm Sewer
8	Dividing Pressure Valve		Private Main		Regulated Combined Sewer
п	Cap		Water Service Line		Overflow Sewer
2	Tee or Cross	•	Manhole	<del>~~</del>	Interceptor
X	Reducer	•	Junction	$\rightarrow$	Sewer Force Main
-	Coupling	esti:	Inlet		Private Sewer
8	Wash Out	->	Private Inlet	->	Undefined Sewer

## PGHOO

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Neifter the City of Pfitsburgh nor the PWSA guarantees the accuracy of any of the information hereby made available, including but not limited to information oncerning the location and condition of underground structures, and neither assumes any responsibility for any conductions 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 underslanding or representations are expressly set forth in a duly authorized written document, and such document expressly provides that responsibility therefore is assumed by the City or the PWSA.

0

Date: 9/13/2018

⊐ Feet

110

### 316 4th Avenue



Legend 0 Water Manhole 0 Outfall Meter Rising Main 4 End Cap Pump P P Supply Main Sewer Pump Station Hydrant Transmission Main Combined Sewer ۵ Hydrant- Out of Service **Distribution Main** Sanitary Sewer System Valve Hydrant Branch æ Storm Sewer 0 Dividing Pressure Valve -- · Private Main Regulated Combined Sewer Cap Water Service Line Overflow Sewer Tee or Cross Manhole Interceptor Reducer 0 Junction · Sewer Force Main Coupling 52 Inlet - Private Sewer Wash Out Private Inlet Undefined Sewer

## PGHOO

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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 not ne 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 expressive lorth in a duly authorized written document, and such document expressive that responsibility therefore is assumed by the PWSA.

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Dale: 9/13/2018

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May 17, 2019

Mr. Benjamin Hunter Langan Engineering and Environmental Services 2400 Ansys Drive, Suite 403 Canonsburg, PA 15317

#### RE: Commonwealth Building 316 Fourth Ave - 15222

Dear Mr. Hunter:

The Pittsburgh Water and Sewer Authority (PWSA) has reviewed your submitted PA DEP Sewage Facilities Planning Module Component 3.

PWSA has approved your submittal and signed Section J and is returning to you for processing to ALCOSAN for final signature. Contact Leslie Stevens at the City of Pittsburgh Law Department at (412-255-2005) to prepare the required City Resolution that Council will need to approve for this project.

Once you receive City Council Resolution, you must submit the complete package to the DEP for final review and approval. You must include all documentation including the approved City of Pittsburgh Council Resolution and any review fees.

Once PWSA receives a copy of the approved Sewage Facilities Planning Module from the DEP, PWSA will process the tap in plan. PWSA is not permitted to issue final approval or a PWSA Permit for connection to the water and/or sewer mains until approval from DEP is granted.

If you have any questions specific to PWSA feel free to contact me. For any general questions regarding the Planning Module you must contact the DEP.

Sincerely tthew Smuts

Associate Project Manager

CC (via email): Thomas Flanagan - DEP

Kate Mechler – PWSA Julie Asciolla - PWSA Leslie Stevens – City of Pittsburgh Law Department Michael Lichte - ALCOSAN PWSA File

Penn Liberty Plaza I 1200 Penn Avenue Pittsburgh PA 15222

info@pgh2o.com T 412.255.2423 F 412.255.2475 www.pgh2o.com 9@pgh2o



Pittsburgh Water & Sewer Authority

May 17, 2019

Mr. Thomas Flanagan Sewage Planning Specialist Supervisor PA Department of Environmental Protection 400 Waterfront Drive Pittsburgh, PA 15222

RE: Commonwealth Building 316 Fourth Avemue - 15222 Sewage Facilities Planning Module Sewer Tap Allocation

Dear Mr. Flanagan:

The Pittsburgh Water and Sewer Authority (PWSA) would like to authorize the use of the 2019 Sewer Tap Allocations for the following project:

Commonwealth Building 316 Fourth Ave - 15222 4th Ward - City of Pittsburgh 27,012 Gallons Per Day = 67.53 DEP EDU's (400gpd/EDU)

If you have any questions, please feel free to contact me at (412) 255-8800 x 2663

Sincerely,

Matthew Smuts Associate Project Manager

CC (via email):

Benjamin Hunter - Langan Regis Ryan - PA DEP William Vincett - PA DEP Kate Mechler - PWSA Julie Asciolla - PWSA PWSA File

Penn Liberty Plaza I 1200 Penn Avenue Pittsburgh PA 15222 info@pgh2o.com T 412 255 2423 F 412 255 2475 www.pgh2o.com У @pgh2o



Pittsburgh Water & Sewer Authority

MEMO

To: Barry King

From: Matt Smuts

Date: May 15, 2019

#### Subject: DEP Sewage Planning Module – Section J. Chapter 94 Consistency Determination, Calculation Review for: Commonwealth Building

Upon review of the submittal by Langan Engineering and Environmental Services for the above referenced development I have determined that the projected flows are less than the design capacity of the PWSA sewers and, therefore the sewers should have adequate capacity for the proposed development.

Penn Liberty Plaza I 1200 Penn Avenue Pittsburgh PA 15222 info@pgh2o.com T 412.255.2423 F 412.255.2475 www.pgh2o.com

<b>DEP Sewage Planning Module</b>	nning Module				Date: 5/15/2019	2019
Section J. Chapt	Section J. Chapter 94 Consistency Deter	etermination			<b>Calculation Review</b>	view
					By: M. Smuts	its
	PROJECT NAME: Comm	PROJECT NAME: Commonwealth Building, 316 4th Ave	1th Ave			
	PROJECT FLOW:	27,012 gpd				
<u>Formulas</u>						
Manning Equation:	on:		Q, flow, cfs			
°,	Q= (1.49/n)*A*R^(2/3)*S^	*S^(1/2)	n, roughness coefficient	oefficient		
=0	O= 2 arccos ((r-d/r))		S, slope from	S, slope from PWSA records (ft/ft)		
A=	A= r^2( O - sin O)/2		D, sewer diameter, ft	eter, ft		
P <sub>w</sub> = r*⊖	г*О		d, depth of flo	d, depth of flow measured, ft , (SUBMITTED WITH REPORT)	JBMITTED WIT	H REPORT)
R <sub>H</sub> =	$R_{H} = A/P_{w}$		O, central angle, radians	e, radians		
			A, cross sectional area, ft^2	nal area, ft^2		
			Pw, wetted perimeter, ft	meter, ft		
			R <sub>H</sub> , hydraulic radius, ft	dius, ft		
SEWER PROPERTIES	TIES				Peaking Factor	r
=u	0.015	D=	3.00 ft		3.5 combin	combined sewers
S=	0.025	Material: Brick			3 sanitar)	sanitary sewers
DESIGN PEAK FL	DESIGN PEAK FLOW ( FLOWING FULL)		AVERAGE D	AVERAGE DESIGN FLOW		
QFULL =	59,125,281 gpd		(Average flo	(Average flow is design peak flow divided by peaking factor)	w divided by p	eaking factor)
Ξ	3.000 ft		Q <sub>FULL</sub> , avg=	16,892,937	gpd	
11 2	1.500 ft					
9=	6.28 rad					
A=	7.07 ft^2					
P <sub>w</sub> =	9.42 ft					
R <sub>H</sub> =	0.750 ft					
Q=	91.64 cfs					
PRESENT AVERAGE FLOW	VGE FLOW		PRESENT PEAK FLOW	AK FLOW		
Q <sub>AVG</sub> =	1,269,235 gpd		(Peak flow i	(Peak flow is peaking factor times the present average flow)	ies the present	t average flow)

Ð			*Flow Depth	Q <sub>peak</sub> =	4,442,322 gpd	
"	1.500 ft	ft				
0=	1.30 rad	rad				
A=	0.3751 ft <sup>^</sup>	ft^2				
P <sub>w</sub> d	1.944 ft	Ĥ				
R <sub>H</sub> =	0.1930 ft	Ŧ				
Q=	1.967 cfs	cfs				
PROJECTED AVERAGE FLOW	ERAGE FLOW			PROJECTED PEAK FLOW	K FLOW	
	QAVG, PROJECTED <sup>=</sup> Qp	Qpeak projected /peaking factor	oeaking factor	QPK, PROJECTED <sup>=</sup> (PI	Q <sub>PK, PROJECTED</sub> = (Present Peak flow + Project Flow) * 1.05	Project Flow)
	QAVG, PROJECTED=	1,340,800 gpd	σ	QPEAK, PROJECTED=	<b>4,692,801</b> gpd	
VALUES BY ENGINEER	SINEER	% DIFFERENCE				
Q,full	58,624,409	-1%	*Design an	*Design and/or Permitted Capacity Peak in gpd	acity Peak in gpd	
Qfull, avg	16,749,831	-1%				
Qavg	1,256,465	-1%				
Qpeak	4,397,629	-1%				
Qavg,proj	1,347,651	1%				
Qpeak, proj	4,716,779	1%	Projected p	Projected peak flow, not peak design flow	design flow	

# **APPENDIX D**

Alternative Sewage Facilities Analysis

## LANGAN

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#### SECTION H SEWAGE FACILITIES PLANNING MODULE COMPONENT 3

#### Re: Alternative Sewage Facilities Analysis Commonwealth Building City of Pittsburgh, Allegheny County, Pennsylvania Langan Project No.: 250063301

The project site is located at 316 Fourth Avenue between Wood Street and Smithfield Street, in the Golden Triangle Subdistrict A (GT-A) District within the City of Pittsburgh, Allegheny County, Pennsylvania. Pitt Commonwealth Owner, LLC is proposing to redevelop approximately 0.19 acres within Lot 1-H-330. The proposed development will include ground floor retail or residential with lobby space and 2<sup>nd</sup> and 3<sup>rd</sup> floor amenity space and apartments. The proposed development will be owned and operated by Pitt Commonwealth Owner LLC.

The project site is generally bounded by Fourth Avenue to the north, a 13-story existing brick building *The Pittsburgh Tech Center Bunker* to the east, two existing brick buildings and a vacant lot to the south, and a 21-story existing brick building *The Union Bank Building* to the west. The existing site currently consists of a 20-story brick building and impervious sidewalk area.

The sanitary services for the proposed site consists of one 10-inch private on-site gravity lateral located in Fourth Ave. north of the site. The 10-inch lateral in Fourth Ave. will connect into the existing 36-inch PWSA combined sewer. The existing 36-inch PWSA combined sewer is conveyed to the Allegheny County Sanitary Authority (ALCOSAN) Wastewater Treatment Facility in Pittsburgh, PA. This proposed method will provide adequate disposal of the total combined daily flow of 27,012 gallons per day, or 68 EDUs. The proposed net increase in combined daily sanitary sewage flow from existing to proposed conditions is 14,203 gallons per day, or 36 EDUs. A reference for the approximate sewage flow for the proposed development can be found in Appendix C. The proposed private sanitary line will remain private and 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 the Monongahela River, approximately 0.18 miles southwest of the site. A package wastewater treatment plant with discharge to the Monongahela River is not feasible due to the size and cost of the site.

 2400 Ansys Drive, Suite 403
 Canonsburg, PA 15317
 T: 724.514.5100
 F: 724.514.5101
 www.langan.com

 New Jersey
 New York
 Connecticut
 Pennsylvania
 Ohio
 Washington, DC
 Virginia
 Florida
 Texas
 California

 Abu Dhabi
 Athens
 Doha
 Dubai
 Istanbul
 London
 Panama





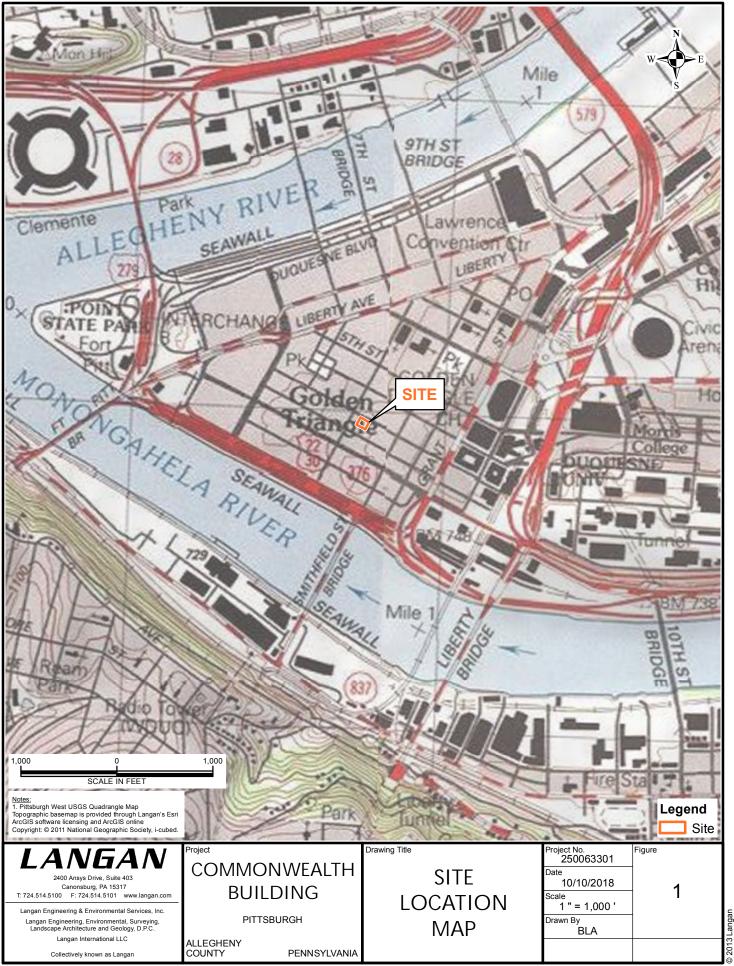
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### SECTION P SEWAGE FACILITIES PLANNING MODULE COMPONENT 3

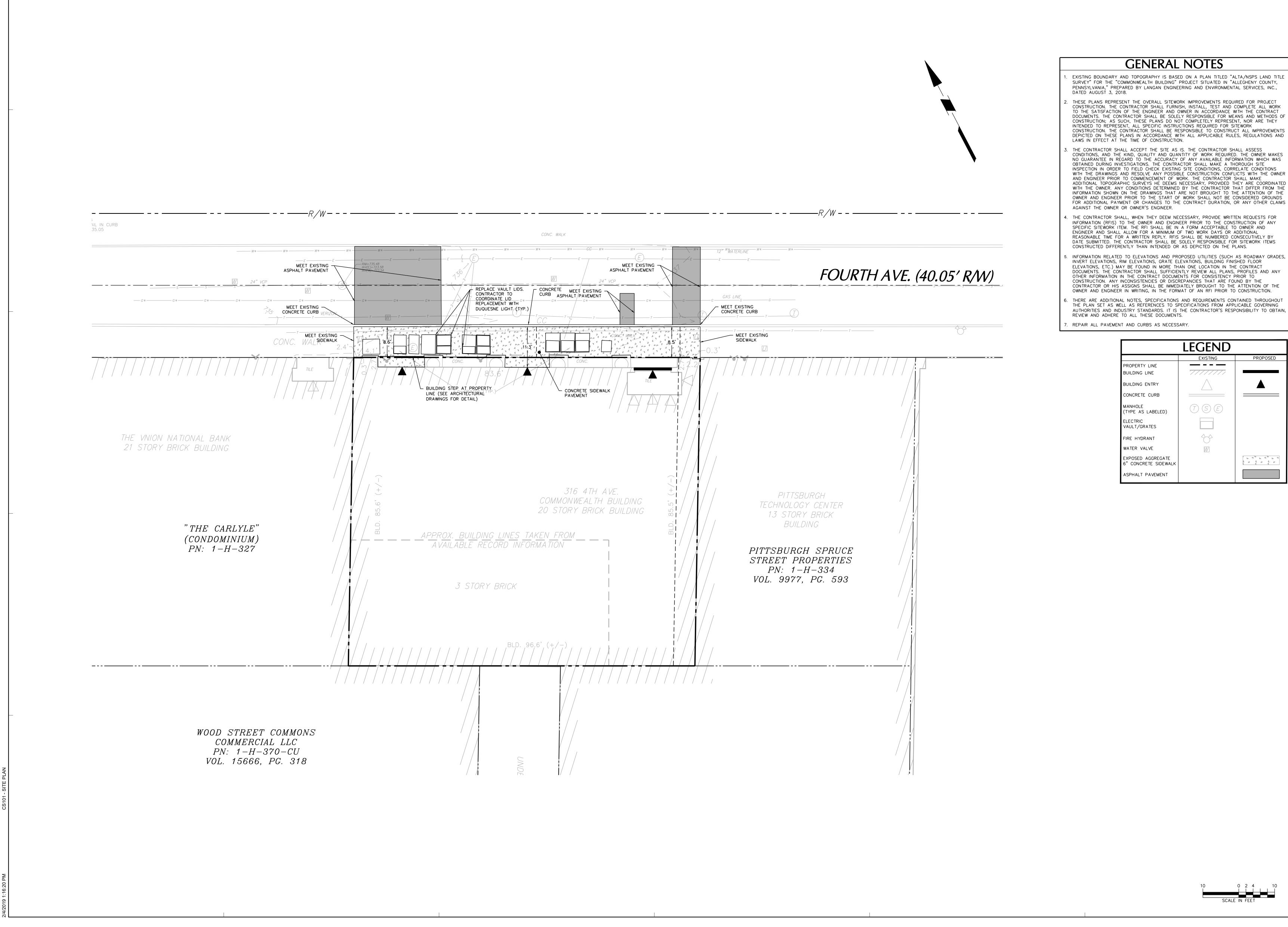
### Re: Public Notice Commonwealth Building City of Pittsburgh, Allegheny County, Pennsylvania Langan Project No.: 250063301

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

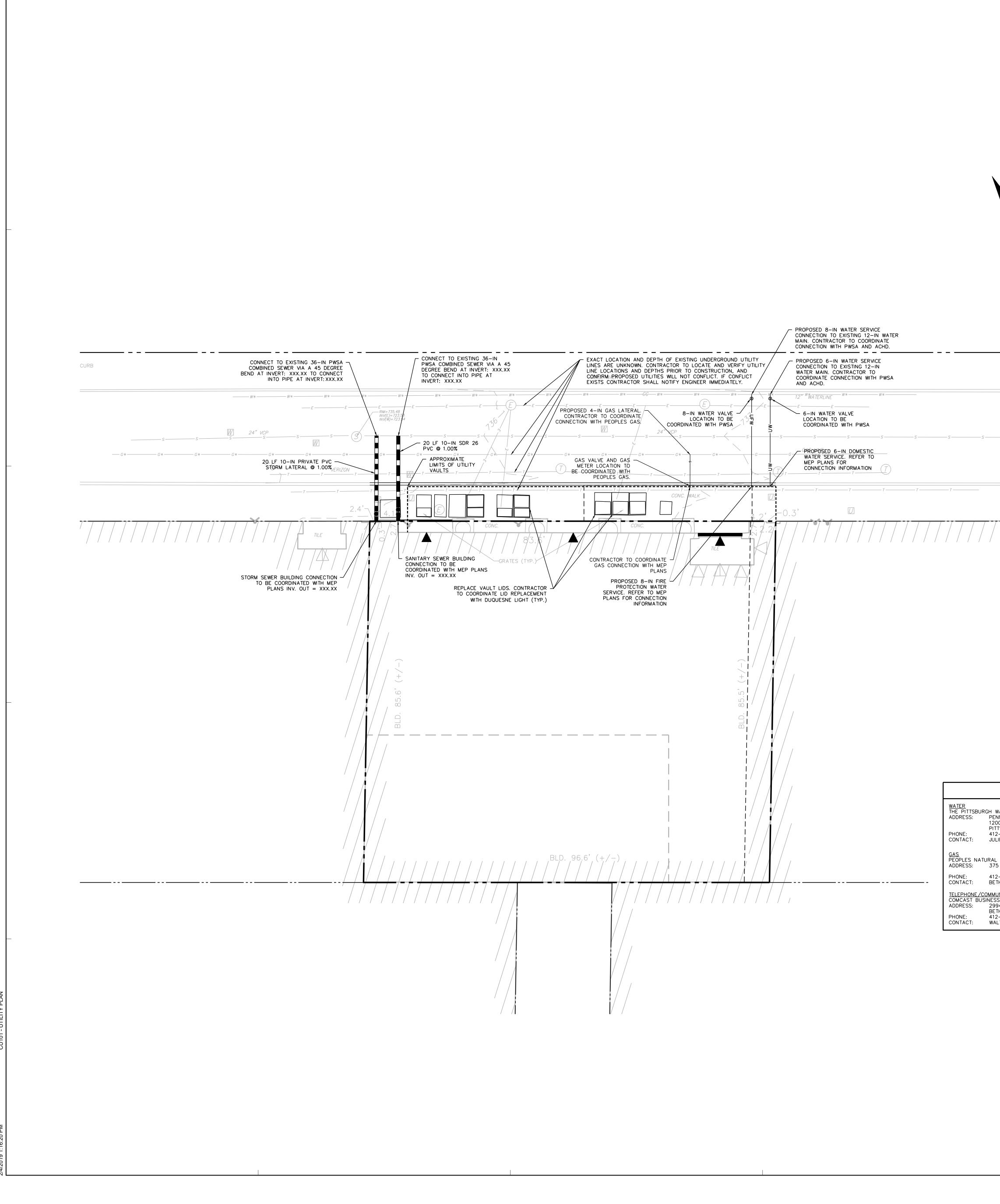
# **APPENDIX F** USGS Map and Plot Plans



Path: \\langan.com\data\PIT\data3\250063301\Project Data\ArcGIS\MXD\Civil\_Figures\Site Location Map.mxd



PERFIDO WEISKOPF WAGSTAFF 🕇 GOETTEL 408 BOULEVARD OF THE ALLIES PITTSBURGH, PA 15219-1301 412.391.2884 PH 412.391.1657 FX WWW.PWWGARCH.COM PWWG PROJECT NUMBER 21816.00 DESIGN DEVELOPMENT 02/19/2019 REVISIONS DATE NO. DESCRIPTION C COPYRIGHT PERFIDO WEISKOPF WAGSTAFF + GOETTEL 2019 COMMONWEALTH BUILDING 316 FOURTH AVE PITTSBURGH, PA 15219 PITT COMMONWEALTH OWNER. LLC SITE PLAN **CS101** 





# UTILITY PROVIDERS

WATER THE PITTSBURGH WATER AND SEWER AUTHORITY SEWER THE PITTSBURGH WATER AND SEWER AUTHORITY PENN LIBERTY PLAZA I ADDRESS: PENN LIBERTY PLAZA I 1200 PENN AVENUE PITTSBURGH, PA 15222 412-255-8800 PHONE: CONTACT: JULIE ASCIOLLA PEOPLES NATURAL GAS COMPANY LLC 375 NORTH SHORE DRIVE PITTSBURGH, PA 15212 412-258-4479 BETH REICHERTER TELEPHONE/COMMUNICATIONS COMCAST BUSINESS SERVICES – KEYSTONE REGION WEST VERIZON OF PA 2994 INDUSTRIAL BOULEVARD

BETHEL PARK, PA 15102

412-580-1442

WALT KASIEVICH III

ELECTRICITY DUQUESNE LIGHT COMPANY 2825 NEW BEAVER AVENUE ADDRESS: PITTSBURGH, PA 15233 PHONE: 412-393-7816 CONTACT: GREG ALAN **COMMUNICATIONS** ADDRESS: 3151 PIONEER AVENUE PITTSBURGH, PA 15226 PHONE: 412-237-2291 CONTACT: DANIEL BARREN

1200 PENN AVENUE

412-255-8800

JULIE ASCIOLLA

PITTSBURGH, PA 15222

	LEGEND	
	EXISTING	PROPOSED
PROPERTY LINE		
BUILDING LINE	7///////	
SANITARY SEWER	S	
SANITARY MANHOLE	S	
STORM SEWER		
WATER LINE (REFERENCE)		
WATER LINE		Uw
WATER LINE FOR FIRE SERVICE		UFW
FIRE HYDRANT	$\sim$	
STAND PIPE	$\mathbf{Y}$	
CLEAN OUT	0	
WATER VALVE		8
GAS LINE	G	
GAS LINE (REFERENCE)	G * G *	
UNDERGROUND ELECTRIC LINE	EE	
ELECTRIC METER	E	
COMMUNICATIONS LINE	T	
COMMUNICATIONS MANHOLE	(T)	
UNKNOWN VALVE	$\bigcup$	

PERFIDO WEISKOPF WAGSTAFF 🕇 GOETTEL 408 BOULEVARD OF THE ALLIES PITTSBURGH, PA 15219-1301 412.391.2884 PH 412.391.1657 FX WWW.PWWGARCH.COM TFORCONSTI PWWG PROJECT NUMBER 21816.00 DESIGN DEVELOPMENT 02/19/2019 REVISIONS NO. DESCRIPTION DATE C COPYRIGHT PERFIDO WEISKOPF WAGSTAFF + GOETTEL 2019 COMMONWEALTH BUILDING 316 FOURTH AVE PITTSBURGH, PA 15219 PITT COMMONWEALTH OWNER, LLC UTILITY PLAN

# **APPENDIX G** Cultural Resource Notice



Technical Excellence Practical Experience Client Responsiveness

### SECTION G SEWAGE FACILITIES PLANNING MODULE COMPONENT 3

### Re: Cultural Resources Notice (CRN) Commonwealth Building City of Pittsburgh, Allegheny County, Pennsylvania Langan Project No.: 250063301

Per DEP Document #0120-PM-PY0003a – Section F, a Cultural Resource Notice is not required for this project because the project area is less than 10 acres, and does not contain any demolition of existing buildings.

# APPENDIX H PNDI



Technical Excellence Practical Experience Client Responsiveness

December 11, 2018

Ms. Olivia Braun Pennsylvania Game Commission – Bureau of Wildlife Habitat Management Division of Environmental Planning and Habitat Protection 2001 Elmerton Avenue Harrisburg, PA 17110-9797

### Re: Pennsylvania Natural Diversity Index No. 649137 Commonwealth Building City of Pittsburgh, Allegheny County, Pennsylvania Langan Project No.: 250063301

Dear Ms. Braun:

The project site is located at 316 Fourth Avenue in the 1<sup>st</sup> Ward of the City of Pittsburgh, Allegheny County, Pennsylvania. The project site consists of the City of Pittsburgh parcel number 1-H-330, having a total area of 0.19 acres. The project site is generally bound by Fourth Avenue to the north, a 13-story existing brick building *The Pittsburgh Tech Center Bunker* to the east, two existing brick buildings and a vacant lot to the south, and a 21-story existing brick building *The Union Bank Building* to the west. It is located in the Golden Triangle A (GT-A) District. The site currently consists of a 20-story brick office building known as *The Commonwealth Building*.

Pitt Commonwealth Owner, LLC is proposing to renovate the existing Commonwealth Building. The project consists of a residential conversion of existing office space in the Commonwealth Building. The proposed improvements will include ground floor retail or residential with lobby space and 2<sup>nd</sup> and 3<sup>rd</sup> floor amenity space and apartments. It is anticipated that the existing curb will remain and be reused and all existing dry utilities for the building will remain and provide adequate service for the proposed improvements.

A search of the Pennsylvania Natural Diversity Inventory (PNDI) system administered by the Pennsylvania Natural Heritage Program was finalized on December 11, 2018. The PNDI receipt (Project Search ID: PNDI-672497) indicated a "Potential Impact" by the Pennsylvania Game Commission (PGC) for the Peregrine Falcon (*Falco peregrinus*). The PNDI receipt is included as Attachment A. We request the project be further reviewed to resolve the potential impact to the Peregrine Falcon.

We appreciate the timely review of this project. If you have any questions or require additional information, please do not hesitate to contact me at 724-514-5153.

Sincerely, Langan Engineering & Environmental Services, Inc.

andrew Rampado

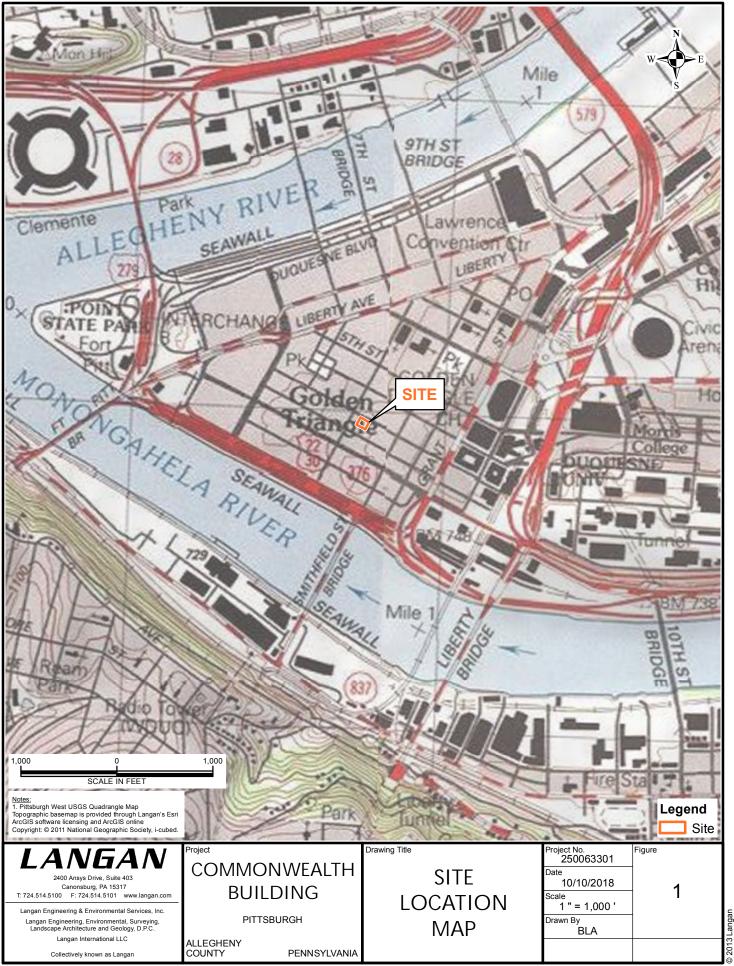
Andrew Rampado Staff Engineer

Enclosures: Fi

Figure 1 Attachment A USGS Site Location Map PNDI Receipt

# FIGURE 1 USGS SITE LOCATION MAP

LANGAN



Path: \\langan.com\data\PIT\data3\250063301\Project Data\ArcGIS\MXD\Civil\_Figures\Site Location Map.mxd



February 4, 2019

Mr. Andrew Rampado Langan Engineering and Environmental Services 2400 Ansys Drive, Suite 403 Canonsburg, Pennsylvania 15317 <u>arampado@langan.com</u>

PNDI Receipt File: *project\_receipt\_commonwealth\_building\_672497\_FINAL\_1.pdf* Re: Commonwealth Building City of Pittsburgh, Allegheny County, Pennsylvania

Dear Mr. Rampado,

Thank you for submitting Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt *project\_receipt\_commonwealth\_building\_672497\_FINAL\_1.pdf*\ for review. The Pennsylvania Game Commission (PGC) screened this project for potential impacts to species and resources of concern under PGC responsibility, which includes birds and mammals only.

### **Potential Impact Anticipated**

PNDI records indicate species or resources of concern are located within the vicinity of the project. The PGC has received and thoroughly reviewed the information that you provided to this office, as well as PNDI data, and has determined that potential impacts to the following threatened, endangered, and species of special concern birds and mammals may be associated with your project. Therefore, additional measures may be necessary to avoid potential impacts to the species listed below.

Scientific Name	Common Name	PA Status	
Falco peregrinus	Peregrine Falcon	ENDANGERED	

### **Next Steps**

The PNDI review revealed the presence of an active peregrine falcon nest within 1,000 feet of the project area. Therefore, the following seasonal restriction should be incorporated into the project plans in an effort to avoid impacts to the nesting pair:

• All work required on the exterior of the building as well as any activities which may require the use of cranes should be completed between August 1 and February 14 to avoid impacts to the nesting pair. Such activities should not occur during nesting season, February 15 through July 31.

This response represents the most up-to-date summary of the PNDI data files and is <u>valid for two</u> (2) years from the date of this letter. An absence of recorded information does not necessarily imply actual conditions on site. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered.

Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). If the proposed work has not changed and no additional information concerning listed species is found, the project will be cleared for PNDI requirements under this agency for two additional years.

This finding applies to impacts to birds and mammals only. To complete your review of state and federally-listed threatened and endangered species and species of special concern, please be sure that the U.S. Fish and Wildlife Service, the PA Department of Conservation and Natural Resources, and/or the PA Fish and Boat Commission have been contacted regarding this project as directed by the online PNDI ER Tool found at <u>www.naturalheritage.state.pa.us</u>.

Sincerely,

Ulivia Blaun

Olivia A. Braun Environmental Planner Division of Environmental Planning & Habitat Protection Bureau of Wildlife Habitat Management Phone: 717-787-4250, Extension 3128 Fax: 717-787-6957 E-mail: Olbraun@pa.gov

A PNHP Partner



OAB/oab

cc: Schnupp Brauning Murphy Barber Librandi Mumma Fazi Trusso File

# **1. PROJECT INFORMATION**

Project Name: **Commonwealth Building** Date of Review: **12/11/2018 04:23:48 PM** Project Category: **Development, Additions/maintenance to existing development facilities** Project Area: **0.33 acres** County(s): **Allegheny** Township/Municipality(s): **PITTSBURGH** ZIP Code: **15222** Quadrangle Name(s): **PITTSBURGH WEST** Watersheds HUC 8: **Lower Monongahela** Watersheds HUC 12: **Streets Run-Monongahela River** Decimal Degrees: **40.439027, -80.000828** Degrees Minutes Seconds: **40° 26' 20.4962" N, 80° 0' 2.9791" W** 

# 2. SEARCH RESULTS

Agency	Results	Response		
PA Game Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response		
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 there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

# Commonwealth Building

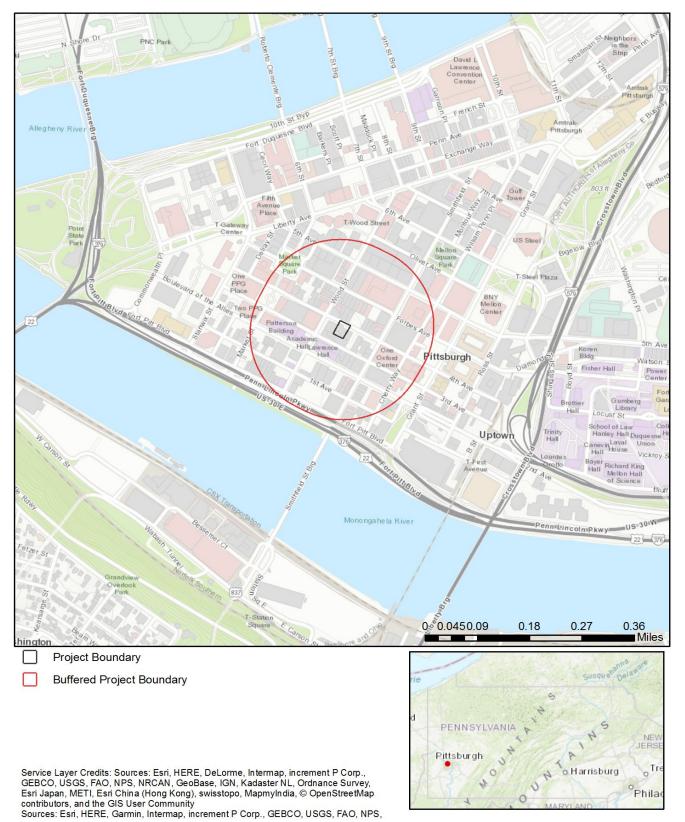


Project Boundary

Buffered Project Boundary



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



# Commonwealth Building

# **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:**

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

**PGC Species:** (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status	
Falco peregrinus	Peregrine Falcon	Endangered	

# 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.

\* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

\*\* Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

# WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload\* or email\* the following information to the agency(s). Instructions for uploading project materials can be found <u>here</u>. This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies. Alternatively, applicants may email or mail their project materials (see AGENCY CONTACT INFORMATION). \*Note: U.S.Fish and Wildlife Service requires applicants to mail project materials to the USFWS PA field office (see AGENCY CONTACT INFORMATION). USFWS will not accept project materials submitted electronically (by upload or email).

#### Check-list of Minimum Materials to be submitted:

\_\_\_\_\_Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

\_\_\_\_\_A map with the project boundary and/or a basic site plan(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

#### In addition to the materials listed above, USFWS REQUIRES the following

SIGNED copy of a Final Project Environmental Review Receipt

#### The inclusion of the following information may expedite the review process.

\_\_\_\_Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

# 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 (<u>www.naturalheritage.state.pa.us</u>). 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: <u>RA-HeritageReview@pa.gov</u>

#### PA Fish and Boat Commission

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

#### U.S. Fish and Wildlife Service

Pennsylvania Field Office Endangered Species Section 110 Radnor Rd; Suite 101 State College, PA 16801 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: <u>RA-PGC\_PNDI@pa.gov</u> NO Faxes Please

# 7. PROJECT CONTACT INFORMATION

Name: Andrew Ro	amead	D		
	angan	Engine	ering	
Address: 2400 Answs	Drive	5	5	
City, State, Zip: (anonsbu	ng, PA.	15317		
Phone: (724) 514 - 5153	5,	Fax:(	)	
Email: arampado () las	gan. Con	2		

## 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

17/11/7018



March 22, 2019

Mr. Andrew Rampado Langan Engineering and Environmental Services 2400 Ansys Drive, Suite 403 Canonsburg, Pennsylvania 15317 <u>arampado@langan.com</u>

PNDI Receipt File: *project\_receipt\_commonwealth\_building\_672497\_FINAL\_1.pdf* Re: Commonwealth Building City of Pittsburgh, Allegheny County, Pennsylvania

Dear Mr. Rampado,

Thank you for submitting Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt *project\_receipt\_commonwealth\_building\_672497\_FINAL\_1.pdf* for review. The Pennsylvania Game Commission (PGC) screened this project for potential impacts to species and resources of concern under PGC responsibility, which includes birds and mammals only.

### **Potential Impact Anticipated**

PNDI records indicate species or resources of concern are located within the vicinity of the project. The PGC has received and thoroughly reviewed the information that you provided to this office, as well as PNDI data, and has determined that potential impacts to the following threatened, endangered, and species of special concern birds and mammals may be associated with your project. Therefore, additional measures may be necessary to avoid potential impacts to the species listed below.

Scientific Name	Common Name	PA Status	
Falco peregrinus	Peregrine Falcon	ENDANGERED	

The project involves the renovation of an existing 21-story building, known at the Commonwealth Building. The proposed renovations include both interior and exterior work with the final uses of the building anticipated to be for residential and retail purposes.

The PNDI review revealed the presence of an active peregrine falcon nest within 1,000 feet of the project area. Based on the proximity to the nest and the limited project information provided, the PGC initially requested that all exterior building work (including the use of cranes) be completed outside of the nesting season, between August 1 and February 14.

Shortly thereafter the PGC was contacted by the project proponent who explained that exterior building work was proposed during the nesting season. They inquired if any such work could be

completed during the nesting seasons to facilitate the timely completion of the project. The PGC suggested that additional information about any such exterior activities (including the use of cranes) proposed during the nesting season be provided for PGC review. An initial submittal was made on February 27, 2019 that detailed what work was to occur on both the 3<sup>rd</sup> Avenue and 4<sup>th</sup> Avenue sides of the building. Specifically, the submittal described that a mechanical equipment hoist was required on the 3<sup>rd</sup> Avenue side of the building and would require use of a crane to install it. Additionally, this proposal detailed that the existing roof of the building would be replaced. After a review of this information, the PGC offered feedback to the project proponent on March 5, 2019.

On March 21, 2019, the PGC received an updated submittal from the project proponent that incorporated much of the PGC's prior feedback into the project plans and now includes delaying multiple portions of the project until after the 2019 nesting season. Based upon a review of this information and discussions with the project proponent, the following measures have been incorporated into the project plans to ensure that impacts to the falcons are avoided and/or minimized.

## Avoidance Measures

- The project includes the cleaning and pointing of the brick exterior of the building using scaffolding or a swing stage. All such façade work, including the use of scaffolding or a swing stage will be completed between August 1<sup>st</sup> and February 14<sup>th</sup>, outside of the nesting season.
- The project requires that the existing roof of the building be replaced. This work has been rescheduled to occur between August 1<sup>st</sup> and February 14<sup>th</sup>, outside of the nesting season.

## Minimization Measures

- A debris chute is required to extend to the 20<sup>th</sup> floor and will be located on the 4<sup>th</sup> Avenue side of the building to facilitate the interior demolition and renovations. The chute will be installed from the interior of the building and cranes will not be used during the installation.
- A mechanical hoist will be required in order to transport equipment and personnel during the interior demolition and renovation work. This hoist has been repositioned to be on the 4<sup>th</sup> Avenue side of the building and extend parallel to the debris chute. Two cranes will be required however they will also be positioned on the 4<sup>th</sup> Avenue side of the building in an effort to minimize impacts to the nesting pair. Immediately upon completing the necessary work, all cranes will be removed from the project area. Crane use during the nesting season (February 15<sup>th</sup> July 31<sup>st</sup>) is limited to the hoist installation along 4<sup>th</sup> Avenue only.
- Work required on the roof the building during nesting season (February 15<sup>th</sup> July 31<sup>st</sup>) is limited to the disconnection of one cellular antenna and the dismantlement and removal of 4 mechanical roof-top units. The PGC requests that this work be completed during April 2019 concurrent with the installation of the mechanical hoist. Furthermore, this work should start that the point closest to the nest and progress away from the nest location.
- Work proposed on the 3<sup>rd</sup> Avenue side of the building has been limited to the use of a drywall truck or extension boom within an existing alleyway with ingress at 3<sup>rd</sup> Avenue.

The boom will extend to the 3<sup>rd</sup> floor of the building to deliver necessary materials for the interior building work.

• All window replacements that are required during the nesting season (February 15<sup>th</sup> – July 31<sup>st</sup>) will occur from the building interior.

Based upon the implementation of the above measures, a review of the PGC's species specific information and discussions with the project proponent, the PGC had determined that impacts to nesting peregrine falcons will be avoided and minimized to the greatest extent possible. However, in the event that the falcons should exhibit agitated behavior such as excessive vocalization, the PGC should be contacted immediately to evaluated the situation and determine the appropriate next steps.

This response represents the most up-to-date summary of the PNDI data files and is <u>valid for two</u> (2) years from the date of this letter. An absence of recorded information does not necessarily imply actual conditions on site. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered.

Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). If the proposed work has not changed and no additional information concerning listed species is found, the project will be cleared for PNDI requirements under this agency for two additional years.

This finding applies to impacts to birds and mammals only. To complete your review of state and federally-listed threatened and endangered species and species of special concern, please be sure that the U.S. Fish and Wildlife Service, the PA Department of Conservation and Natural Resources, and/or the PA Fish and Boat Commission have been contacted regarding this project as directed by the online PNDI ER Tool found at <u>www.naturalheritage.state.pa.us</u>.

Sincerely,

Olivia & Blaun

Olivia A. Braun Environmental Planner Division of Environmental Planning & Habitat Protection Bureau of Wildlife Habitat Management Phone: 717-787-4250, Extension 3128 Fax: 717-787-6957 E-mail: Olbraun@pa.gov

A PNHP Partner



OAB/oab

cc: Schnupp Brauning Murphy Barber Librandi Mumma Fazi Trusso File

# APPENDIX I Component 4A

3850-FM-BCW0362A 6/2016

DEPARTMENT OF ENVIRONMENTAL PROTECTION

#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

DEP Code #:

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

pack	age a	nd on	t <b>Spon</b> : ne copy comme	sor: To expedite the review of your proposal, one copy of your completed planning module of this <i>Planning Agency Review Component</i> should be sent to the local municipal planning ints.
SEC	TION	Α.	PROJE	CT NAME (See Section A of instructions)
· ·	ect Na			
Com	monw	ealth	Building	3
	TION			W SCHEDULE (See Section B of instructions)
ł	-			by municipal planning agency <u>3-5-19</u>
2.	Date r	eview	comple	eted by agency <u>3-11-19</u>
SEC	TION	<b>C.</b>	AGEN	CY REVIEW (See Section C of instructions)
Ye	_	Nº X	1.	Is there a municipal comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101, et seq.)?
			2.	Is this proposal consistent with the comprehensive plan for land use?
	•••	,		If no, describe the inconsistencies
È	1		З.	Is this proposal consistent with the use, development, and protection of water resources?
				If no, describe the inconsistencies
X	Ţ		4.	Is this proposal consistent with municipal land use planning relative to Prime Agricultural Land Preservation?
	]	×	5.	Does this project propose encroachments, obstructions, or dams that will affect wetlands?
				If yes, describe impacts
	]	X	6.	Will any known historical or archaeological resources be impacted by this project?
				If yes, describe impacts
	]	×	7.	Will any known endangered or threatened species of plant or animal be impacted by this project?
				If yes, describe impacts
	1		8.	Is there a municipal zoning ordinance?
	Ì		9.	Is this proposal consistent with the ordinance?
				If no, describe the inconsistencies
	]	X	10.	Does the proposal require a change or variance to an existing comprehensive plan or zoning ordinance?
Þ	<		11.	Have all applicable zoning approvals been obtained?
X	Į		12.	Is there a municipal subdivision and land development ordinance?

# 3850-FM-BCW0362A 6/2016

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5 E

SECTION C. AGENCY REVIEW (continued)				
Yes	No			
X		13.	Is this proposal consistent with the ordinance?	
			If no, describe the inconsistencies	
X		14.	Is this plan consistent with the municipal Official Sewage Facilities Plan?	
			If no, describe the inconsistencies	
	X	15.	Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?	
			If yes, describe	
	X	16.	Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?	
			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: MBaltatore	
			Date: 3-11-19	
			Name of Municipal Planning Agency: <u>City Ot Pittsburgh</u> , <u>Planning</u> Address 200 2055 St. 4th Plan Pittsburgh, PA 15219	
			Telephone Number: (412) 2.55 - 2.51	
SECTIC	ND.	ADDIT	IONAL COMMENTS (See Section D of instructions)	
			not limit municipal planning agencies from making additional comments concerning the relevancy	
of the p	roposed	plan to	other plans or ordinances. If additional comments are needed, attach additional sheets.	
		•	iust complete this component within 60 days.	
This cor	nponent	and ar	ny additional comments are to be returned to the applicant.	

# APPENDIX J Component 4C





# ALLEGHENY

**RICH FITZGERALD COUNTY EXECUTIVE** 

March 18, 2019

Benjamin Hunter, P.E. Langan Engineering and Environmental Services, Inc. 2400 Ansys Drive, Suite 403 Canonsburg, PA 15317

**RE: SEWAGE FACILITIES PLANNING MODULE** COMMONWEALTH BUILDING **CITY OF PITTSBURGH** 

Dear Mr. Hunter,

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 13, 2019. The project proposes the following:

Project Description.	Redevelop existing building at 316 Fourth Avenue between Wood Street and Smithfield Street. Building has mix of retail and apartment units.
Sewage Flow:	27,012 GPD
Conveyance:	Private PVC gravity lateral that will connect to the existing PWSA 36-inch combined sewer in Fourth Avenue. Flow to ALCOSAN Monongahela Interceptor and then to the ALCOSAN sewage treatment plant
Sewer's Owner:	PWSA
Name of Sewage Treatment Plant:	ALCOSAN sewage treatment

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. 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, 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 412-578-8388.

Sincerely.

Michael W. Scheer Environmental Health Administrator II Water Pollution Control & Solid Waste Management

MWS/ge Enclosure

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



KAREN HACKER, MD, MPH, DIRECTOR ALLEGHENY COUNTY HEALTH DEPARTMENT



, performance

WATER POLLUTION CONTROL & SOLID WASTE MANAGEMENT

3901 PENN AVENUE • BUILDING 5 • PITTSBURGH, PA 15224-1318 PHONE: 412.578.8040 • FAX: 412.578.8053 • WWW.ACHD.NET

#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER STANDARDS AND FACILITY REGULATION

#### 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

Yes

Π

 $\Box$ 

No

Commonwealth Building

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

1. Date plan received by county or joint-county health department. March 13, 2019

Agency name Allegheny County Health Department (ACHD)

2. Date review completed by agency March 18, 2019

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

$\boxtimes$		$1_{n}$	Is the proposed plan consistent with the municipality's Official Sewage Facilities Plan	?
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If no, what are the inconsistencies?

2 Are there any waste water disposal needs in the area adjacent to the new land development that should be considered by the municipality?

If yes, describe

3. Is there any known groundwater degradation in the area of the proposed subdivision?

If yes, describe

- 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: Michael Scheer

Title: Environmental Health Administrator II

Signature:

Date: March 18, 2019

Name of County Health Department: ACHD

Address: <u>3901 Penn Avenue, Building #5. Pittsburgh PA 15224-1318</u>

Telephone Number: 412-578-8388

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

#### 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