

**SEWAGE FACILITIES PLANNING MODULE  
APPLICATION MAILER**



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

For more information, visit DEP's website at  
[www.depweb.state.pa.us](http://www.depweb.state.pa.us), keyword: Act 537.

## INSTRUCTIONS FOR COMPLETING SEWAGE FACILITIES PLANNING MODULE APPLICATION MAILER

(remove before sending mailer to the approving agency (the Department of Environmental Protection (DEP) or delegated local agency))

Please read the following instructions carefully before completing the application mailer. This information will be used to determine if sewage facilities planning is necessary for your project, and, if it is, which forms are appropriate.

Act 537 Sewage Facilities' planning is the duty of local municipalities. The responsibility of meeting the sewage disposal needs of the municipality rests with the municipality. Each municipality is required to have an Act 537 Official Sewage Facilities Plan to adequately address these needs. Adoption by resolution of a planning module is the vehicle for legally amending the municipality's Official Plan. It is imperative that the municipality receives all of the information required in order to make informed decisions.

Upon completion, submit this Mailer / Application form to the approving agency (DEP or delegated local agency). Additionally, provide a copy of the completed form to the County Health Department having jurisdiction over the area in which the proposed project is located.

Unless your project qualifies for one of the planning exemptions provided in Act 537, a package of sewage facilities planning forms appropriate for the project will be sent to the return address indicated on the mailer, or instructions for obtaining the appropriate forms from DEP's website ([www.depweb.state.pa.us](http://www.depweb.state.pa.us)) will be issued. Each form includes detailed instructions that explain the use of the form and how to complete it. The package of completed forms and its supporting documentation is called a **sewage facilities planning module**, or "planning module." Once the planning module is complete, it must be submitted to the municipality in which the project is located for review and, if acceptable, adoption.

After adoption by the municipality, complete planning modules are submitted to either DEP or, if appropriate, to the delegated agency for review and final action. Some municipalities (or groups of municipalities working together) have requested and received DEP approval to review and take final action on planning modules. These are known as **delegated agencies**. To find out if your project is located in an area served by a delegated agency, contact the municipality or DEP's regional office serving your area.

Please note that both DEP and delegated agencies are required by law to charge fees for the review of planning modules. The fees DEP must charge are set by law in Act 537, while delegated agencies may set fees which can be the same or different from those in Act 537. For more information on review fees for your particular project, see the planning module documents or contact the approving agency (DEP or delegated agency) serving the area of your project.

NOTE: DEP will provide all planning module forms, however, if your project is a **minor subdivision** (defined as a subdivision of 10 lots or less, intended for single family residential homes served by individual onlot sewage disposal systems) you may also contact the municipality in which your project is located for a "Component 1" minor subdivision planning module form.

1. Print the name of the proposed development and name, address, telephone number and email address of the person who is proposing the project. If planning module components are to be sent to a different person or address, include this information on the front of the mailer in the return address block.
2.
  - a. Enter the county in which the project is located.
  - b. Enter the municipality in which the project is located.
  - c. Enter the road or address (if available) or street coordinates (example - west side of T-235, 1 mile south of intersection of Rt 15 and T-235).
  - d. Enter the appropriate tax parcel identification number (if available) of the parcel proposed for subdivision.
  - e. Enter the name of the U.S. Geological Survey (USGS) 7.5-minute quadrangle map which contains the project area, and the location of the project area on that map in inches up and over from the lower right corner of the map to the approximate center of the project. (Example - Centerville West quad, 7 inches up and 2.5 inches over from lower right corner of map.) Alternatively, include an original or a copy of the USGS quad map with the project area outlined on it.
  - f. If the proposed project is located within a special protection watershed, (i.e., watersheds with a stream classification of High Quality or Exceptional Value), check "yes." If not located in special protection watershed, check "no."
3. Check the box that best describes the intended use of the proposed land development project. **Residential** refers to single-family lots. **Multi-residential** includes apartments, condos, etc. **Commercial** includes retail centers, office parks, industrial development, etc. **Institutional** refers to schools, hospitals and the like. **Brownfield Site**

Redevelopment refers to projects proposing to recycle land. Some developments will involve more than one type of use, or will not fit comfortably into any of the classifications given. If this is the case, choose more than one category or explain under **Other**.

4.
  - a. Enter the number of single family residential lots or Equivalent Dwelling Units (EDUs) proposed. An EDU is defined as that part of a multi-family dwelling or nonresidential project with flows equal to 400 gallons per day (gpd) (the assumed flow, for planning purposes, of a single family residential lot). To determine the number of EDUs, divide the proposed sewage flow of the project by 400 gpd.
  - b. Enter the total number of lots created from this parcel of land since May 15, 1972, including the lots being proposed at this time. (Onlot disposal proposals only.)
  - c. Enter the total project acreage and the acreage of any remaining land (land not proposed for development but under the same ownership and adjacent to the project area).
5. Enter the proposed total sewage flow from the project in gpd. See Title 25 of the Pennsylvania Code, Chapter 73, Section 73.17, ([www.pacode.com](http://www.pacode.com)), or DEP's *Domestic Wastewater Facilities Manual*, DEP ID: 362-0300-001 available on DEP's website at [www.depweb.state.pa.us](http://www.depweb.state.pa.us), keyword: wastewater.
6. Choose the category (a, b, c or d) that describes the method of sewage disposal planned to serve the project and enter the information requested. Since this information could have an effect on the planning requirements for your project, be as accurate as possible. If more than one method of sewage disposal is planned, or if an interim method is planned, indicate it here.
  - a. Sewerage System
 

If an existing system is being extended to serve the proposed project, or if lots are to connect directly to an existing sewage collection system, check all boxes that describe the project. Write in the names of the existing collection systems that will be used, the interceptor sewer which will be used for conveyance and the treatment facility where the sewage flows will be treated. Include the National Pollutant Elimination Discharge System (NPDES) permit number for the treatment facility, where applicable.
  - b. Construction of Sewerage Treatment Facility (with stream discharge or with spray irrigation as final disposal option)
 

Check the box corresponding to the chosen final disposal option (stream discharge or spray irrigation field). This category does **NOT** include individual residence spray irrigation systems (IRSIS) which are considered onlot sewage disposal systems ((c), below). For stream discharges, name the receiving waterbody. If the proposed facility is intended to replace an existing, malfunctioning onlot system, check the box marked "repair."
  - c. Onlot Sewage Disposal Systems (individual, community, or large-volume)
 

Check the box corresponding to the type of onlot sewage disposal systems proposed to serve the project. An **individual onlot sewage disposal system** is a system of piping, tanks or other facilities used for collecting, treating and disposing of sewage into a subsurface absorption area. This category also includes IRSIS. A **community onlot system** is a facility either publicly or privately owned which will collect and dispose of sewage from two or more lots or EDUs into a subsurface absorption area. A **large-volume onlot system** is an individual or community onlot system which is designed to treat flows in excess of 10,000 gpd.

The approving agency must be notified at least 10 days in advance of all soil testing activities (including those related to planning exemption requests - see 7(b)(5)(v)), so that its staff have the option of observing the tests.
  - d. Retaining Tanks (holding tanks or privies)
 

If retaining tanks are proposed as the method of sewage disposal, enter the number of holding tanks or privies which are proposed to serve the project.
7. Check this box if you desire to obtain your sewage facilities planning module forms from DEP's website. You will be provided with appropriate instructions, website addresses and DEP coding information in a letter rather than a package of paper forms.

8. Requests for Planning Exemption under the Sewage Facilities Act

You may request to be exempt from Act 537 planning requirements. Effective December 15, 1995, certain classes of subdivisions are no longer subject to the planning requirements of the Sewage Facilities Act. Completing Section 8 will help you and the approving agency determine if your project fits into one of these categories.

a. Protection of rare, endangered or threatened species.

DEP's technical guidance document "Policy for Pennsylvania Natural Diversity Inventory (PNDI) Coordination During Permit Review and Evaluation," (400-0200-001) requires DEP to ensure that requests for authorizations, are coordinated with the Department of Conservation and Natural Resources' (DCNR) Pennsylvania Natural Diversity Inventory (PNDI).

Conducting a search of the PNDI database and providing a copy of a "PNDI Project Environmental Review Receipt" for the proposed project and, if potential impacts are identified by the search, clearance or recommendation letters from the jurisdictional agency responsible for the particular species identified by a search, satisfies this requirement.

To avoid project delay, self-explanatory, self-conducted "PNDI Project Planning Environmental Review" searches are initiated at [www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us). This interactive, online search will ask questions about the proposed project and provide the appropriate receipt, instructions or additional information regarding coordination with jurisdictional agencies.

As an alternative to the self-conducted search, project sponsors may request DEP staff to conduct the search by providing a completed "PNDI Project Planning & Environmental Review Form" (PNDI Form). The form is available at [www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us). Individuals making this request should be aware that, due to the nature of the search software, DEP staff may need to contact them for additional information to successfully complete the search and that exclusive of any other items, their sewage planning exemption request is considered incomplete by DEP, until the appropriate receipt, clearance or recommendation letters are received.

For more information, see the "Policy for Pennsylvania Natural Diversity Inventory (PNDI) Coordination During Permit Review and Evaluation," (400-0200-001), available online in the eLibrary at DEP's website address [www.depweb.state.pa.us](http://www.depweb.state.pa.us).

b. Attach a plot plan for the proposed project. The plan must depict anticipated lots to be created, either estimated sewer line runs (public sewer proposals), or site suitability test locations and Site Investigation and Percolation Test Reports (onlot proposals).

c. Projects proposing use of onlot sewage disposal systems

(1) Information Required from the Municipality

The municipality in which the project is located (identified in Item 2.b. of the mailer) should determine if the municipality's Official Sewage Facilities Plan shows that the area planned for the project is to be served by onlot sewage disposal systems. If it is, the municipality should indicate this by having an authorized municipal official sign and date the form in the space provided. The official's name and title should be printed on the line below.

(2) Information Required from the Municipal Sewage Enforcement Officer (SEO)

The municipality's SEO must conduct personally, observe or otherwise confirm in a manner approved by DEP, site testing on each proposed lot in the subdivision (including any remaining land) to determine that separate sites are available for both a permitted primary onlot sewage disposal system and a replacement system (to be used if the original system fails in the future). If the SEO finds that each lot has been tested properly and fulfills these criteria, the SEO must indicate this by signing and dating the form in the space provided. His/her name and certification number should be printed on the line below.

(3) Information Required from the Applicant

The person proposing the subdivision, or his/her authorized agent, must determine if each lot in the subdivision (including the remaining land, if any) is at least one (1) acre in size. If they are, the applicant or his/her agent must indicate this by signing and dating the form in the space provided.



(4) Determinations Made by the Approving Agency

When the above listed information is received, the approving agency will determine the following:

- (a) If the geology of the project area is conducive to nitrate-nitrogen contamination of groundwater (determined from the topographic map location information); or
- (b) If elevated levels of nitrate-nitrogen are known to exist within one-quarter (1/4) mile of the proposed development (determined from agency groundwater sampling records in existence at the time of the application); or
- (c) If the area proposed for development is within an identified High Quality (HQ) or Exceptional Value (EV) watershed (determined from the topographic map location).

Following this investigation, the approving agency will render a decision on the exemption request within 10 working days of receiving the request for exemption. Both the applicant and municipality will be notified of the decision. If the request cannot be granted, the person named in the return address block will receive the proper planning module component forms (or instructions to obtain them from the DEP website) along with the notification of the decision, including the reason(s) that the request cannot be granted.

d. Projects proposing use of public sewerage facilities (i.e., ownership by municipality or authority)

(1) Information Required from the Municipality

The municipality in which the proposed project is located (identified in Item 2.b. of the mailer) will determine the following from written documentation requested and obtained by the applicant from the facility permittee. ***This documentation MUST also be sent to the approving agency (DEP or delegated local agency) for evaluation.***

- (a) Certification from the permittees of the collection, conveyance and treatment facilities proposed for use that capacity is available in these facilities to receive and treat the sewage flows from the proposed project; and
- (b) That these added flows will not cause an overload or 5-year projected overload in the facilities.

If the facilities proposed for use are owned and operated by an authority, or authorities, then attach a letter from each to the mailer.

If this written certification has been submitted by the applicant, an authorized municipal official should sign and date the form and print his/her name and title and the municipality name in the spaces provided.

NOTE: Since planning is a municipal responsibility, sewer authorities involved should make required information available but should **NOT** sign the mailer as the authorized municipal official.

(2) Determinations Made by the Approving Agency

When the above listed information is received by the approving agency, the approving agency will determine the following (from DEP records):

- (a) That the existing collection, conveyance and treatment facilities are in compliance;
- (b) That the existing facilities have no existing or 5-year projected overload;
- (c) That the municipality has a currently approved Official Sewage Facilities Plan which is being implemented; and
- (d) That the project does not propose service by facilities needing a new or modified permit from DEP under the Clean Streams Law.

Following this investigation, the approving agency will render a decision on the exemption request within 10 working days of receiving the request for exemption. Both the applicant and the municipality will be notified of the decision. If the request cannot be granted, the person named in the return address block will receive the proper planning module component forms (or instructions to obtain them from DEP's website) along with the notification of the decision, including the reason that the request cannot be granted.

If unsure of which local DEP office to contact, the following DEP regional offices will assist you in determining the appropriate local DEP office that serves your specific municipality.

If you need more information or assistance, please contact your local DEP office.

## ***DEP REGIONAL OFFICES***

### **Northwest Region**

230 Chestnut St.  
Meadville, PA 16335-3481  
Main Telephone: 814-332-6945  
24-Hour Emergency: 800-373-3398

**Counties:** *Armstrong, Butler, Clarion, Crawford, Elk, Erie, Forest, Indiana, Jefferson, Lawrence, McKean, Mercer, Venango, and Warren*

### **Southwest Region**

400 Waterfront Drive  
Pittsburgh, PA 15222-4745  
Main Telephone: 412-442-4000  
24-Hour Emergency: 412-442-4000

**Counties:** *Allegheny, Beaver, Cambria, Fayette, Greene, Somerset, Washington, and Westmoreland*

### **North-central Region**

208 W. Third St., Suite 101  
Williamsport, PA 17701-6448  
Main Telephone: 570-327-3636  
24-Hour Emergency: 570-327-3636

**Counties:** *Bradford, Cameron, Clearfield, Centre, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga, and Union*

### **South-central Region**

909 Elmerton Ave.  
Harrisburg, PA 17110-8200  
Main Telephone: 717-705-4700  
24-Hour Emergency: 866-825-0208

**Counties:** *Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, and York*

### **Northeast Region**

2 Public Square  
Wilkes-Barre, PA 18701-1915  
Main Telephone: 570-826-2511  
24-Hour Emergency: 570-826-2511

**Counties:** *Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, and Wyoming*

### **Southeast Region**

2 E. Main St.  
Norristown, PA 19401-4915  
Main Telephone: 484-250-5900  
24-Hour Emergency: 484-250-5900

**Counties:** *Bucks, Chester, Delaware, Montgomery, and Philadelphia*

1. Development Information

Name of Development Chalfant Hall
Developer Name CCAC - Allegheny Campus
Address 800 Allegheny Ave, Pittsburgh, PA 15233
Telephone # 412-237-3108
Email jmesser@ccac.edu

2. Location of Development

a. County Allegheny
b. Municipality Pittsburgh
c. Address or Coordinates 915 Ridge Ave, Pittsburgh PA, 15233
d. Tax Parcel # 7-H-339
e. USGS Quad Name Pittsburgh West Quadrangle
inches up 13.5 over 15.6
from bottom right corner of map.
f. Located in a High Quality/Exceptional Value watershed?
Yes No

3. Type of Development Proposed (check appropriate box)

Residential Multi-Residential
Describe
Commercial Institutional
Describe Building being renovated on CCAC Campus
Brownfield Site Redevelopment
Other (specify)

4. Size

a. # of lots 1 # of EDUs 2.83
b. # of lots since 5/15/72 1
c. Development Acreage 0.39
d. Remaining Acreage

5. Sewage Flows 1130 gpd

6. Proposed Sewage Disposal Method (check applicable boxes)

Sewerage System
Existing (connection only) New (extension)
Public Private
Pump Station(s)/Force Main Gravity
Name of existing system being extended
Interceptor Name ALCOSAN Monongahela River Interceptor
Treatment Facility Name ALCOSAN Plant at Woods Run
NPDES Permit #
Construction of Treatment Facility
With Stream Discharge
With Land Application (not including IRSIS)
Other
Repair?
Name of waterbody where point of discharge is proposed (if stream discharge)

- Onlot Sewage Disposal Systems (check appropriate box)
Individual onlot system(s) (including IRSIS)
Community onlot system
Large-Volume onlot system
Retaining tanks
Number of Holding Tanks
Number of Privies

7. Request Sewage Facilities Planning Module forms in electronic format

8. Request for Planning Exemption

Protection of rare, endangered or threatened species
Check one:
The "PNDI Project Environmental Review Receipt" is attached. or
A completed "PNDI Project Planning & Environmental Review Form," (PNDI Form) is attached. I request DEP staff to complete the required PNDI search for my project. I realize that my planning exemption will be considered incomplete and that the DEP processing of my planning exemption request 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

- Plot Plan Attached Site Reports Attached

c. Onlot Disposal Systems

(1) I certify that the Official Plan shows this area as an onlot service area.

(Signature of Municipal Official) Date
Name (Print) Title

Municipality (must be same as in 2.b.)

Telephone #

(2) I certify that each lot in this subdivision has been tested and is suitable for both a primary and replacement sewage disposal system.

(Signature of SEO) Date
Name (Print) Certification #

Telephone #

(3) I certify that each lot in this subdivision is at least 1 acre in size

(Signature of Project Applicant/Agent) Date

- Public Sewerage Service (i.e., ownership by municipality or authority)

Based upon written documentation, I certify that the facilities proposed for use have capacity and that no overload exists or is projected within 5 years. (Attach documents.)

(Signature of Municipal Official) Date
Name (Print) Title

Municipality (must be same as in 2.b.)

Telephone #

**Return Correspondence/Forms to:**

Mr. Nathan Simpson

Cosmos Technologies Inc.

700 River Ave. Suite 100

Pittsburgh, PA 15212

Email: [nsimpson@cosmostechnologiesinc.com](mailto:nsimpson@cosmostechnologiesinc.com)

Phone: 412.321.3951

**DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**Southwest Region**

**400 Waterfront Drive**

**Pittsburgh, PA 15222-4745**

DEP USE	
<b>Components Sent</b>	
Onlot Disposal	<input type="checkbox"/>
Collection and Treatment	<input type="checkbox"/>
Planning Agency Review	<input checked="" type="checkbox"/>
Exempt from Planning	<input type="checkbox"/>
Code _____	
Date _____	

"Fold Here"

## RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

RESOLUTION OF THE (SUPERVISORS) (COMMISSIONERS) (COUNCILMEN) of PITTSBURGH  
(TOWNSHIP) (BOROUGH) (CITY), ALLEGHENY COUNTY, PENNSYLVANIA (hereinafter "the municipality").

**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 (DEP) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, require the municipality to adopt an Official Sewage Facilities 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 land development conforms to a comprehensive program of pollution control and water quality management, and

**WHEREAS** COMMUNITY COLLEGE OF ALLEGHENY COUNTY has proposed the development of a parcel of land identified as

land developer

CHALFANT HALL, and described in the attached Sewage Facilities Planning Module, and  
name of subdivision

proposes that such subdivision be served by: (check all that apply),  sewer tap-ins,  sewer extension,  new treatment facility,  individual onlot systems,  community onlot systems,  spray irrigation,  retaining tanks,  other, (please specify). \_\_\_\_\_

**WHEREAS**, PITTSBURGH finds that the subdivision described in the attached  
municipality

Sewage Facilities Planning Module conforms to applicable sewage related zoning and other sewage related municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

**NOW, THEREFORE, BE IT RESOLVED** that the (Supervisors) (Commissioners) (Councilmen) of the (Township) (Borough) (City) of PITTSBURGH hereby adopt and submit to DEP for its approval as a revision to the "Official Sewage Facilities Plan" of the municipality the above referenced Sewage Facilities Planning Module which is attached hereto.

I \_\_\_\_\_, Secretary, \_\_\_\_\_  
(Signature)

Township Board of Supervisors (Borough Council) (City Councilmen), hereby certify that the foregoing is a true copy of the Township (Borough) (City) Resolution # \_\_\_\_\_, adopted, \_\_\_\_\_, 20\_\_\_\_\_.

Municipal Address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Seal of  
Governing Body

Telephone \_\_\_\_\_



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

<b>Code No.</b> 02001-20-014
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## 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 #
02001-20-014				

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

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

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

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

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

1. Project Name CCAC Chalfant Hall Renovation

2. Brief Project Description

The proposed project includes interior renovations as well as external enhancements consisting of landscaping, walkways, and parking improvements.

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

Municipality Name	County	City	Boro	Twp
Pittsburgh	Allegheny	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Battistone	Martina			
Additional Individual Last Name	First Name	MI	Suffix	Title
Municipality Mailing Address Line 1	Mailing Address Line 2			
Department of City Planning	200 Ross St, Suite 4			
Address Last Line -- City	State	ZIP+4		
Pittsburgh	PA	15219		
Area Code + Phone + Ext.	FAX (optional)	Email (optional)		
412-225-2516		martina.battistone@pittsburghpa.gov		

**C. SITE INFORMATION** (See Section C of instructions)

**Site (Land Development or Project) Name**

CCAC Chalfant Hall

Site Location Line 1 915 Ridge Ave		Site Location Line 2		
Site Location Last Line -- City Pittsburgh	State PA	ZIP+4 15212	Latitude	Longitude

Detailed Written Directions to Site

0.25 miles north of Heinz Field along Ridge Ave

Description of Site

0.39 acre plot of land with a multi-story building to be renovated

**Site Contact (Developer/Owner)**

Last Name Messer	First Name James	MI	Suffix	Phone 412-237-3108	Ext.
Site Contact Title Chief Facilities Officer		Site Contact Firm (if none, leave blank) CCAC			
FAX	Email jmesser@ccac.edu				
Mailing Address Line 1 800 Allegheny Ave		Mailing Address Line 2			
Mailing Address Last Line -- City Pittsburgh		State PA	ZIP+4 15233		

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

Last Name Borne	First Name Jason	MI	Suffix	
Title Lead Senior Civil Engineer	Consulting Firm Name Cosmos Technologies Inc.			
Mailing Address Line 1 700 River Ave. Suite 100		Mailing Address Line 2		
Address Last Line -- City Pittsburgh		State PA	ZIP+4 15212	Country
Email jborne@cosmostechnologiesinc.com	Area Code + Phone 412-321-3951	Ext. 413	Area Code + 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.
- 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: Pittsburgh Water and Sewer Authority

**F. PROJECT NARRATIVE** (See Section F of instructions)

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

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

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

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

**1. COLLECTION SYSTEM**

a. Check appropriate box concerning collection system

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

Clean Streams Law Permit Number \_\_\_\_\_

b. Answer questions below on collection system

Number of EDU's and proposed connections to be served by collection system. EDU's 2.83

Connections 1

Name of:

existing collection or conveyance system 18" VCP COMBINED SEWER ON RIDGE AVE

owner Pittsburgh Water and Sewer Authority

existing interceptor ALCOSAN Monongahela River Interceptor

owner 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 ALCOSAN Plant at Woods Run

NPDES Permit Number for existing facility PA0025984

Clean Streams Law Permit Number \_\_\_\_\_

Location of discharge point for a new facility. Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

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

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

Name of Permittee Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent [Signature]

Agent Signature [Signature] Date 3/3/2021

(Also see Section I. 4.)



**G. PROPOSED WASTEWATER DISPOSAL FACILITIES (Continued)**

**3. PLOT PLAN**

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

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

**4. WETLAND PROTECTION**

YES NO

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

**5. PRIME AGRICULTURAL LAND PROTECTION**

YES NO

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

**6. HISTORIC PRESERVATION ACT**

YES NO

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

**7. PROTECTION OF RARE, ENDANGERED OR THREATENED SPECIES**

Check one:

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

Applicant or Consultant Initials \_\_\_\_\_.

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

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

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

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

**1. Waters designated for Special Protection**

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

**2. Pennsylvania Waters Designated As Impaired**

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

**3. Interstate and International Waters**

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

**4. Tributaries To The Chesapeake Bay**

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

Name of Permittee Agency, Authority, Municipality \_\_\_\_\_

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

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

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

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

1. Project Flows 1,130 gpd
2. Total Sewage Flows to Facilities (pathway from point of origin through treatment plant)

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

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

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

	a. Design and/or Permitted Capacity (gpd)		b. Present Flows (gpd)		c. Projected Flows in 5 years (gpd) (2 years for P.S.)	
	Average	Peak	Average	Peak	Average	Peak
Collection	1,249,262	4,372,418	7,511	26,288	8,226	28,789
Conveyance		23.3 mgd	4.72	4.78 mgd	4.46 mgd	4.83 mgd
Treatment	209.3 mgd	250 mgd	209.3	200 mgd	219.7	295 mgd

3. Collection and Conveyance Facilities

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

YES NO

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

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

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

b. Collection System

Name of Agency, Authority, Municipality Pittsburgh Water and Sewer Authority

Name of Responsible Agent Barry King, PE, PMP

Agent Signature [Signature] Date 2/3/2021



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

c. Conveyance System

Name of Agency, Authority, Municipality Pittsburgh Water and Sewer Authority ALCOSAN

Name of Responsible Agent [Signature]

Agent Signature [Signature]

Date 3/3/2021

4. Treatment Facility

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

YES NO

- 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 [Signature]

Agent Signature [Signature]

Date 3/3/2021

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

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

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

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

**L. PERMEABILITY TESTING** (See Section L of instructions)

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

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

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

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

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

**O. SEWAGE MANAGEMENT** (See Section O of instructions)

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

Yes No

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

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

2. Project Flows 1,130 gpd

Yes No

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

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

**(For completion by non-municipal facility agent)**

4. Collection and Conveyance Facilities

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

Yes No

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

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

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

- b. Collection System

Name of Responsible Organization \_\_\_\_\_

Name of Responsible Agent \_\_\_\_\_

Agent Signature \_\_\_\_\_

Date \_\_\_\_\_

- c. Conveyance System

Name of Responsible Organization \_\_\_\_\_

Name of Responsible Agent \_\_\_\_\_

Agent Signature \_\_\_\_\_

Date \_\_\_\_\_

5. Treatment Facility

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

Yes No

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

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

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

- b. Name of Facility \_\_\_\_\_  
Name of Responsible Agent \_\_\_\_\_  
Agent Signature \_\_\_\_\_  
Date \_\_\_\_\_

**(For completion by the municipality)**

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

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

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

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

**Yes No**


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

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

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

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

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

Nathan Simpson	
_____	_____
Name (Print)	Signature
MEP Technician	01-19-2021
_____	_____
Title	Date
700 River Ave. Suite 100, Pittsburgh PA, 15212	724-622-7758
_____	_____
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 \$\_\_\_\_\_ payable to "Commonwealth of PA, DEP". Include DEP code number on check. I understand DEP will not begin review of my project unless it receives the fee and determines the fee is correct. If the fee is incorrect, DEP will return my check or money order, send me an invoice for the correct amount. I understand DEP review will NOT begin until I have submitted the correct fee.
- I request to be exempt from the DEP planning module review fee because this planning module creates **only** one new lot and is the **only** lot subdivided from a parcel of land as that land existed on December 14, 1995. I realize that subdivision of a second lot from this parcel of land shall disqualify me from this review fee exemption. I am furnishing the following deed reference information in support of my fee exemption.

County Recorder of Deeds for \_\_\_\_\_ County, Pennsylvania

Deed Volume \_\_\_\_\_ Book Number \_\_\_\_\_

Page Number \_\_\_\_\_ Date Recorded \_\_\_\_\_

**R. REVIEW FEE** (continued)

Formula:

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

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

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:

$$\begin{aligned} & \$ 1,500 \text{ per submittal (non-municipal)} \\ & \$ 500 \text{ per submittal (municipal)} \end{aligned}$$

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

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

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

The fee is based upon:

- The number of lots created or number of EDUs whichever is higher.
  - For community sewage system projects one EDU is equal to a sewage flow of 400 gallons per day.
  - For non-single family residential projects, EDUs are calculated using projected population figures
- C. A sub-surface discharge system that requires a permit under The Clean Streams Law will use a flat fee:
- $$\begin{aligned} & \$ 1,500 \text{ per submittal (non-municipal)} \\ & \$ 500 \text{ per submittal (municipal)} \end{aligned}$$





## INSTRUCTIONS FOR COMPLETING COMPONENT 4A MUNICIPAL PLANNING AGENCY REVIEW

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

### Background

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

### Who Should Complete the Component?

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

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

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

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

#### **Section A. Project Name**

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

#### **Section B. Review Schedule**

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

#### **Section C. Agency Review**

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

#### **Section D. Additional Comments**

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



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER

DEP Code #:

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

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

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

Project Name  
915 Ridge Avenue

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

1. Date plan received by municipal planning agency March 24, 2021  
2. Date review completed by agency April 12, 2021

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

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

**SECTION C. AGENCY REVIEW (continued)**

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

17. Name, title and signature of planning agency staff member completing this section:  
 Name: Martina Wolf Battistone  
 Title: Senior Environmental Planner  
 Signature: *Martina Wolf Battistone*  
 Date: April 12, 2021  
 Name of Municipal Planning Agency: City of Pittsburgh Department of City Planning  
 Address 200 Ross Street 4th Floor Pittsburgh, PA 15219  
 Telephone Number: (412) 255-2516

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

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

The planning agency must complete this component within 60 days.

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

## INSTRUCTIONS FOR COMPLETING COMPONENT 4B COUNTY PLANNING AGENCY REVIEW (or Planning Agency with Areawide Jurisdiction)

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

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### Background

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

### Who Should Complete the Component?

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

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

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

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

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#### **Section A. Project Name**

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

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#### **Section B. Review Schedule**

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

---

#### **Section C. Agency Review**

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

#### **Section D. Additional Comments**

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



**SEWAGE FACILITIES PLANNING MODULE  
COMPONENT 4B - COUNTY PLANNING AGENCY REVIEW**

**(or Planning Agency with Areawide Jurisdiction)**

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

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

Project Name  
CCAC Chalfant Hall Renovation

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

1. Date plan received by county planning agency \_\_\_\_\_
2. Date plan received by planning agency with areawide jurisdiction \_\_\_\_\_  
Agency name \_\_\_\_\_
3. Date review completed by agency \_\_\_\_\_

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

- | Yes                      | No                       |  |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | 1. Is there a county or areawide comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101 <i>et seq.</i> )?  |
| <input type="checkbox"/> | <input type="checkbox"/> | 2. Is this proposal consistent with the comprehensive plan for land use?   |
| <input type="checkbox"/> | <input type="checkbox"/> | 3. Does this proposal meet the goals and objectives of the plan?<br>If no, describe goals and objectives that are not met _____  |
| <input type="checkbox"/> | <input type="checkbox"/> | 4. Is this proposal consistent with the use, development, and protection of water resources?<br>If no, describe inconsistency _____  |
| <input type="checkbox"/> | <input type="checkbox"/> | 5. Is this proposal consistent with the county or areawide comprehensive land use planning relative to Prime Agricultural Land Preservation?<br>If no, describe inconsistencies: _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | 6. Does this project propose encroachments, obstructions, or dams that will affect wetlands?<br>If yes, describe impact _____  |
| <input type="checkbox"/> | <input type="checkbox"/> | 7. Will any known historical or archeological resources be impacted by this project?<br>If yes, describe impacts _____   |
| <input type="checkbox"/> | <input type="checkbox"/> | 8. Will any known endangered or threatened species of plant or animal be impacted by the development project?<br>If yes, describe impacts _____  |
| <input type="checkbox"/> | <input type="checkbox"/> | 9. Is there a county or areawide zoning ordinance?   |
| <input type="checkbox"/> | <input type="checkbox"/> | 10. Does this proposal meet the zoning requirements of the ordinance?<br>If no, describe inconsistencies _____   |

**SECTION C. AGENCY REVIEW (continued)**

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	11. Have all applicable zoning approvals been obtained?
<input type="checkbox"/>	<input type="checkbox"/>	12. Is there a county or areawide subdivision and land development ordinance?
<input type="checkbox"/>	<input type="checkbox"/>	13. Does this proposal meet the requirements of the ordinance? If no, describe which requirements are not met _____
<input type="checkbox"/>	<input type="checkbox"/>	14. Is this proposal consistent with the municipal Official Sewage Facilities Plan? If no, describe inconsistency _____
<input type="checkbox"/>	<input type="checkbox"/>	15. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____
<input type="checkbox"/>	<input type="checkbox"/>	16. Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
<input type="checkbox"/>	<input type="checkbox"/>	If yes, is the proposed waiver consistent with applicable ordinances. If no, describe the inconsistencies _____
<input type="checkbox"/>	<input type="checkbox"/>	17. Does the county have a stormwater management plan as required by the Stormwater Management Act?
<input type="checkbox"/>	<input type="checkbox"/>	If yes, will this project plan require the implementation of storm water management measures?
18. Name, Title and signature of person completing this section:		
Name: _____		
Title: _____		
Signature: _____		
Date: _____		
Name of County or Areawide Planning Agency: _____		
Address: _____		
Telephone Number: _____		

**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.



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

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

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### Background

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

### Who Should Complete the Component?

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

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

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

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

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#### Section A. Project Name

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

#### Section B. Review Schedule

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

#### Section C. Agency Review

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

#### Section D. Additional Comments

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



## SEWAGE FACILITIES PLANNING MODULE

### COMPONENT 4C - COUNTY OR JOINT HEALTH DEPARTMENT REVIEW

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

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

Project Name

CCAC Chalfant Hall Renovation

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

1. Date plan received by county or joint county health department March 9, 2021

Agency name Allegheny County Health Department (ACHD)

2. Date review completed by agency March 10, 2021

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

Yes No

1. Is the proposed plan consistent with the municipality's Official Sewage Facilities Plan?

If no, what are the inconsistencies? \_\_\_\_\_

2. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?

If yes, describe \_\_\_\_\_

3. Is there any known groundwater degradation in the area of this proposal?

If yes, describe \_\_\_\_\_

4. The county or joint county health department recommendation concerning this proposed plan is as follows: ACHD recommends approval. See attached letter.

5. Name, title and signature of person completing this section:

Name: Freddie Fields

Title: Environmental Health Engineer III

Signature: *Freddie Fields*

Date: March 10, 2021

Name of County Health Department: ACHD

Address: 3901 Penn Avenue, Building #5, Pittsburgh, PA 15224-1318

Telephone Number: 412-578-8046

#### 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.

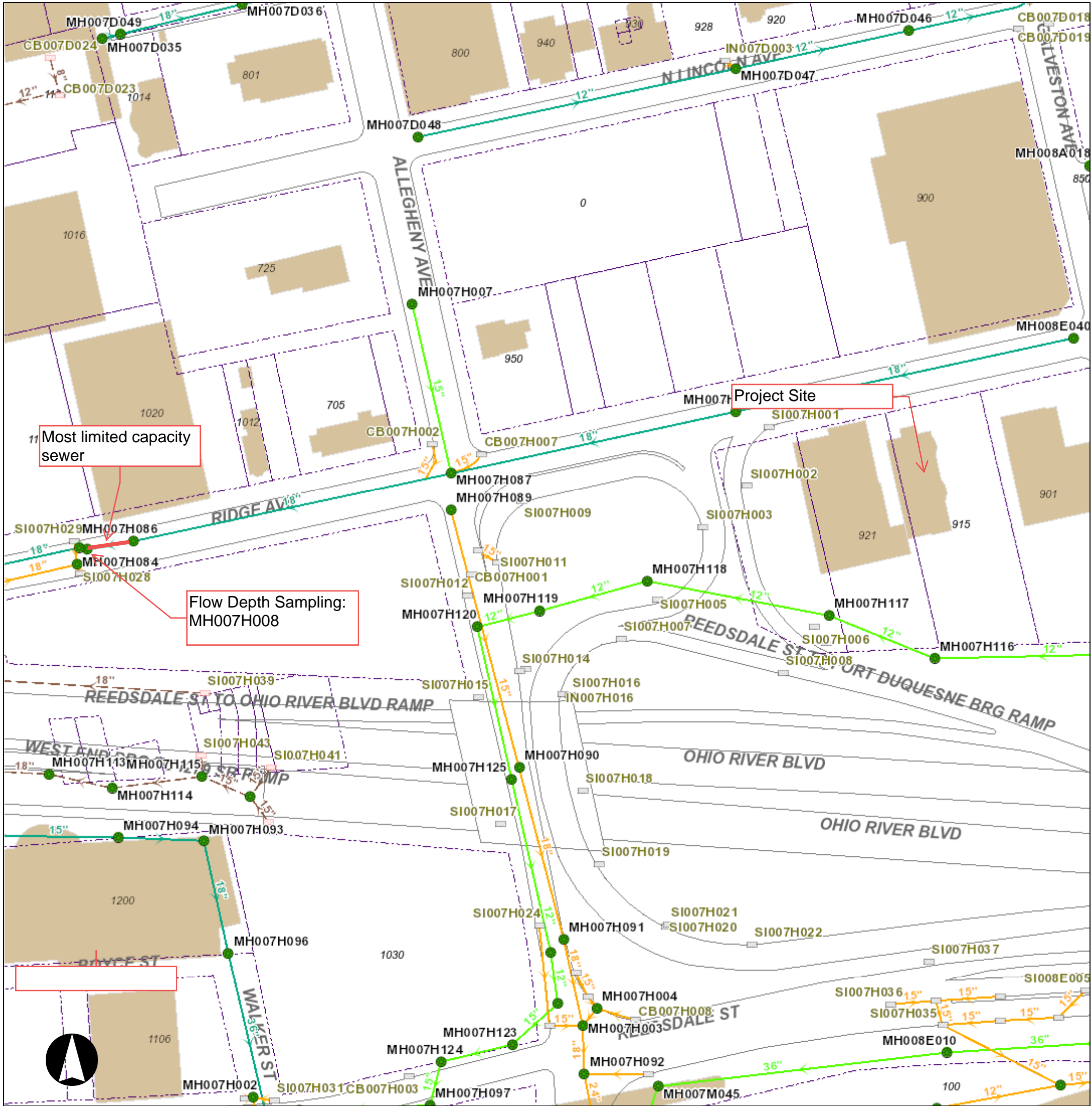
This component and any additional comments are to be returned to the applicant.







# 915 Ridge Ave



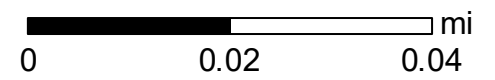
## Legend

### WATER

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

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

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



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

Date: 10/26/2020



Community College of Allegheny County

**Dry Weather Flow Calculations Report for  
Chalfant Hall CCAC**

January 2021

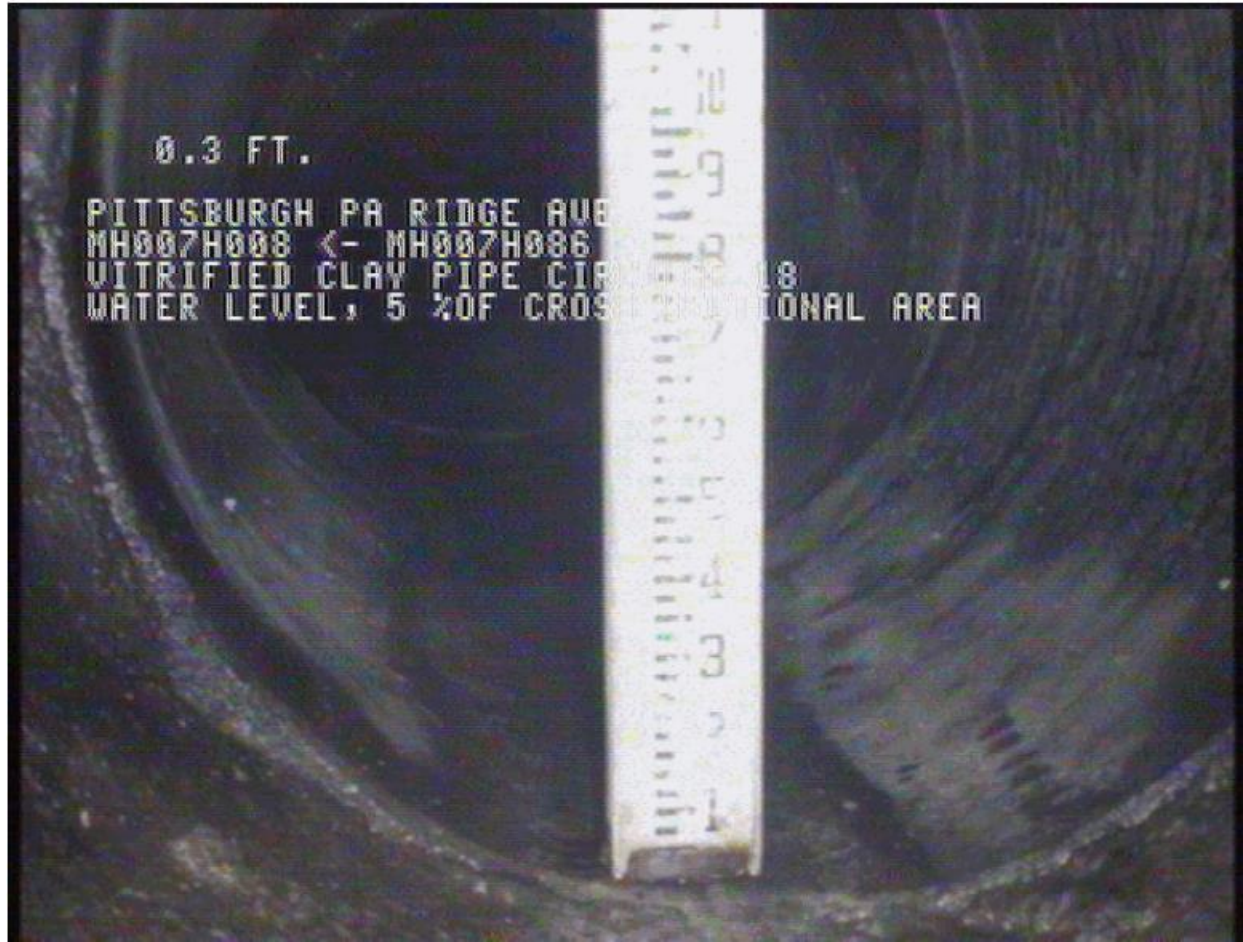
PREPARED BY:

COSMOS TECHNOLOGIES, INC.



0.3 FT.

PITTSBURGH PA RIDGE AVE  
MH007H008 ← MH007H086  
VITRIFIED CLAY PIPE CIR 18  
WATER LEVEL, 5 % OF CROSS SECTIONAL AREA



**Water Use and Sanitary Sewage Flow Estimates:**

Floor	Estimated Occupancy	Water Consumption
<b>Lower Level</b>		
Conference Rm	20	200
<b>First Level</b>		
Conference Rm	20	200
Faculty Development Rm	12	120
<b>Second Level</b>		
Classroom	32	320
Offices	4	40
Huddle Rm	12	120
<b>Third Level</b>		
Dean's Office	1	10
Director's Office	1	10
Virtual Campus Academic Advisor	3	30
Institutional Designer	4	40
Faculty and Student Support Tech	4	40
<b>Total Water Use and Sanitary Sewage Flow:</b>	<b>113</b>	<b>1130</b>

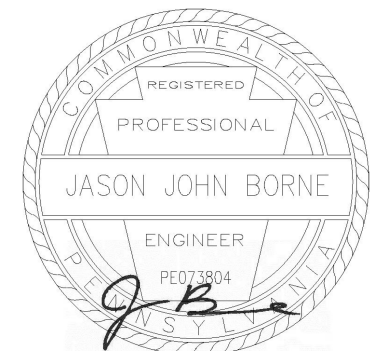
Assumptions:

- 1.) Assume that offices will primarily consist of 1 occupant
- 2.) Assume conference rooms will be partially filled by office/classroom occupants
- 3.) Institutional Designer space will primarily consist of 2 occupants
- 4.) Assume huddle rooms will be partially filled by office/classroom occupants
- 5.) Assume kitchen seats will be used by offices/classroom/huddle room occupants
- 6.) Assume that the ancillary rooms (kitchens, graduate student workspace, outdoor seating, faculty reading room, lobby, etc.), will be accessed by people who are occupying the offices, classrooms, or huddle rooms

**Surface/Storm Flow Estimates:**

Drainage Area (Roof Area) = 0.12 acre  
 Average Rainfall Intensity (25-year, 5-minute Storm) = 7.1 inches/hour (PennDOT Publication 584)  
 Coefficient of Runoff (Building Footprint) = 0.95

$$\begin{aligned}
 \text{Total Storm Flow (Q)} &= C i A \\
 &= 0.95 \times 7.1 \text{ in/hr} \times 0.12 \text{ acre} \\
 &= \mathbf{0.81 \text{ cfs}}
 \end{aligned}$$





## PROJECT NARRATIVE

---

### COMMUNITY COLLEGE OF ALLEGHENY COUNTY CHALFANT HALL RENOVATION CITY OF PITTSBURGH, ALLEGHENY COUNTY, PENNSYLVANIA

#### Project Location:

On behalf of the property owner, Community College of Allegheny County, Cosmos Technologies, Inc. (Cosmos) presents this Project Narrative for the CCAC Chalfant Hall Renovation project. The project is located at 915 Ridge Avenue (Parcel#: 7-H-00339) in the City of Pittsburgh, Allegheny County, Pennsylvania. The site is bounded by Ridge Avenue to the north as presented in the Site Plan and is positioned mid-block between Allegheny Avenue and Galveston Avenue. Currently, the site contains a parking lot and a 4-story vacant building which was constructed in 1900.

#### Project Summary:

The proposed project includes interior renovations as well as external enhancements consisting of landscaping, walkways, and parking improvements. The Center for Faculty Innovation, including the Center for Teaching and Learning and the Virtual Campus, will be located within the four (4) floors of the existing building. The approximate 17,600 sf space will include offices, conference/meeting rooms, instructional spaces, labs, recording spaces, storage, utility rooms, restrooms, and reception/security areas.

#### Water Use and Sanitary Sewer Flow Estimate:

The renovated campus building will be primarily used for administrative offices and conference/meeting rooms with limited classroom space. This description aligns the project to the "Offices (per Employee)" classification (per PWSA Table 1 – Water Use and Sanitary Sewage Flow Estimates) when developing the anticipated water use and sanitary flow calculations. The typical occupancy has been calculated as 113 persons (employees/students) as summarized in the attached water consumption spreadsheet. The corresponding water use and sanitary sewer flows are as follows:

$$\begin{aligned}\text{Project Flow} &= \text{Project Water Use and Sanitary Sewage Flow (Table 1)} \times \text{Occupancy} \\ &= 10 \text{ gpd/employee} \times 113 \text{ employees} \\ &= 1,130 \text{ gpd}\end{aligned}$$

The building is believed to have been vacant for an extended period of time and as such no Existing Flow has been assumed. The Net Flow from the proposed project for permitting purposes is equivalent to the proposed condition Project Flow and calculated as follows:

$$\begin{aligned}\text{Net Flow} &= \text{Project Flow} - \text{Existing flow} \\ &= 1,130 \text{ gpd} - 0 \text{ gpd} \\ &= 1,130 \text{ gpd}\end{aligned}$$



**Surface/Storm Flow Estimate:**

Storm flows are limited to the existing Chalfant Hall roof area as captured by several roof drains which are routed internally to a common storm lateral. The site does not contain existing or proposed inlets or yard drains. The storm flow was calculated for the building footprint (Coefficient of Runoff = 0.95) using the Rational method for the 25-year, 5 -minute duration storm intensity of 7.10 inches/hour and calculated as follows:

$$\begin{aligned}\text{Storm Flow (Q)} &= C i A \\ &= 0.95 \times 7.10 \text{ in/hr} \times 0.12 \text{ acres} \\ &= 0.81 \text{ cfs}\end{aligned}$$

**Proposed Water and Sewer Tap-ins:**

The PWSA currently has an existing 12" water main in Ridge Avenue which will likely support this project. The project is not intending to reuse the existing water tap, which will be terminated as part of this project. A new 4" tap is proposed which will split behind the curb line to create a 2" domestic and a 4" fire protection line (to support a fire sprinkler system). A water meter crock will be provided for the domestic (2") service. The fire service (4") will have a bypass meter within the building.

The PWSA currently has an 18" combined sewer in Ridge Avenue which is intended to support this project. The project is not intending to reuse the existing sewer tap connection, which will be terminated as part of this project. A new 8" tap is proposed which will split with a wye connection behind the curb to support separate 6" lines for conveyance of sanitary and storm flows.

**Flow Depth Measurement Procedure:**

The PWSA provided guidance as to the required location of the flow depth measurements at the most limited capacity sewer (MLCS) downslope of the proposed project sewer tap-in. The flow depth measurements were to be obtained at a PWSA manhole on the most hydraulically limited pipe which was the 18" VCP pipe segment (48.90 linear-foot) between PWSA manhole structure MH007H086 and PWSA manhole MH007N008 on Ridge Avenue.

Robinson Pipe Cleaning was responsible for measuring the flow depth at the most hydraulically limited sewer segment. The Peak Flow Measurement method was used, involving a minimum of five (5) flow depth measurements at the MLCS over a one (1)-hour period on a weekday between 6-8 a.m. or 6-8 p.m. Robinson Pipe Cleaning obtained the required five (5) measurements on January 13, 2021 between 7-8 a.m. at PWSA manhole MH007N086.

**Sewage Facilities Planning Module Peak Flow Calculations:**

The observed flow depth was minimal and recorded as <5% of the pipe cross-sectional area, which when calculated for an 18" pipe diameter corresponds to approximately a 1" flow depth. The Permitted Capacity and Present Flows were calculated in the PADEP Sewage Facilities Planning Module component forms using the 1" peak flow depth, the MLCS pipe segment slope of 0.55% (as provided by the PWSA in the MLCS Spreadsheet), and a roughness coefficient of 0.015 (which is consistent with VCP material and the PWSA MLCS Spreadsheet).





**DATA**

**Project Flow<sup>(1)</sup> (Q<sub>0</sub>):** 1,130 gpd  
**Hydraulically restricted segment<sup>(2)</sup>:** 18" VCP in Ridge Ave., between MH007H086 and MH007H008  
**Type of sewer:** Combined

**Hydraulically restricted segment**

Parameter	Variable	Peak Flow	Full Pipe	Unit
Upstream Invert		<b>747.07</b>	747.07	ft
Downstream Invert		<b>746.8</b>	746.8	ft
Pipe Length	L	<b>48.9</b>	48.9	ft
Flow depth <sup>(3)</sup>	h	<b>1</b>	<b>18</b>	in
Manning number	n	<b>0.015</b>	<b>0.015</b>	
Diameter	D	<b>18</b>	<b>18</b>	in

*Notes:*

- (1) Project Flow from PWSA Water and Sewer Use Application Calculations*
- (2) Provided by PWSA Reviewer: Ana Flores on November 4, 2021*
- (3) Measured by Robinson Pipe on 01/13/2021 at 7:00 AM*

**CALCULATIONS****Selected method:**

METHOD 1 - Measured PEAK Flow (preferred method)

**Peaking Factor (PF):**

3.5 for combined sewers

**Hydraulically restricted segment**

Parameter	Variable	Peak	Full Pipe	Unit
Slope	S	0.55%	0.55%	
Angle	$\Theta$	0.95	6.28	rad
Area	A	0.039	1.767	sf
Wetted Perimeter	P	0.714	4.712	ft
Hydraulic radius	Rh	0.054	0.375	ft
Flow	Q	0.041	6.765	cfs
		18.3	3,036.4	gpm
		26,288	4,372,418	gpd

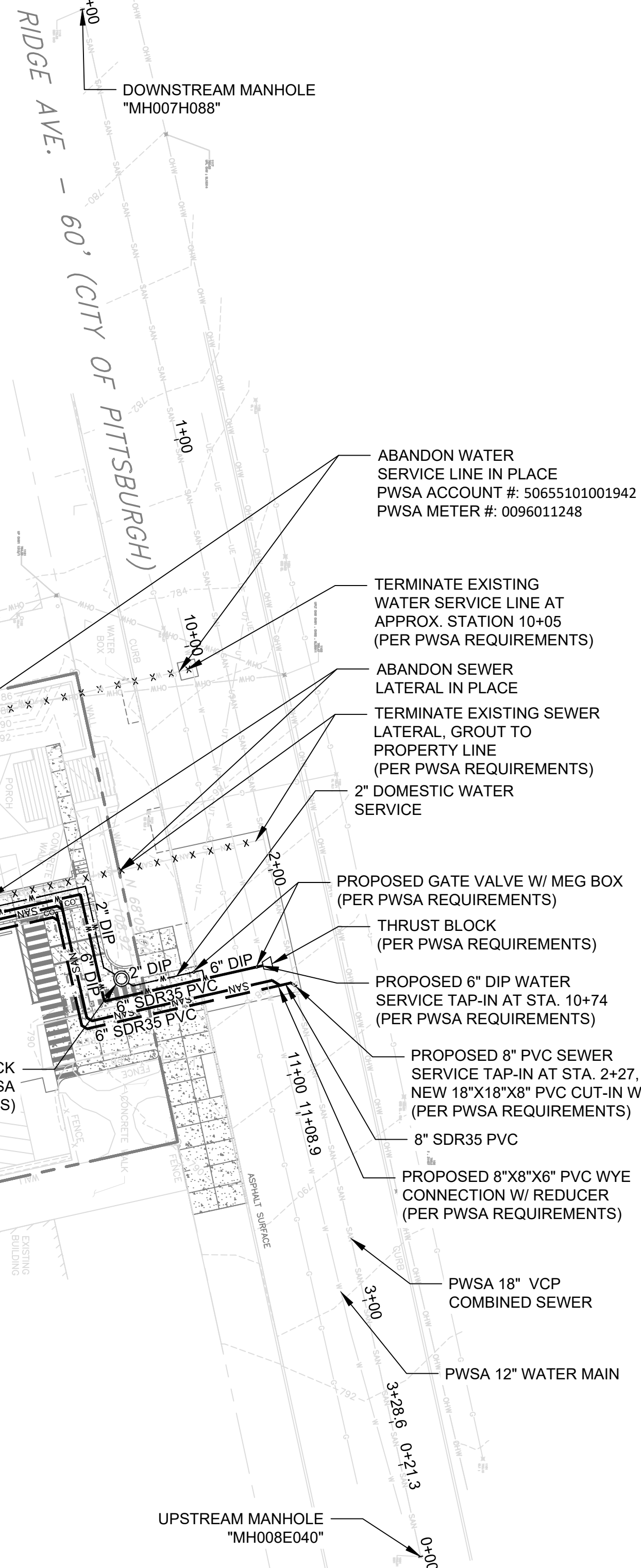
**RESULTS**

	a. Design and/or Permitted Capacity (gpd)		b. Present Flows (gpd)		c. Projected Flows in 5 years (gpd) (2 years for P.S. <sup>(6)</sup> )	
	Average $Q_f/PF$	Peak $Q_f^{(4)}$	Average $Q_p/PF$	Peak $Q_p^{(5)}$	Average $Q_1/PF$	Peak $Q_1=(Q_p+Q_0)\times 1.05$
<b>Collection</b>	1,249,262	4,372,418	7,511	26,288	8,226	28,789
<b>Conveyance</b>	1,249,262	4,372,418	7,511	26,288	8,226	28,789
<b>Treatment</b>	1,249,262	4,372,418	7,511	26,288	8,226	28,789

*Notes:**(4) Flow (Q) of the Hydraulically restricted segment under Full Pipe conditions**(5) Flow (Q) of the Hydraulically restricted segment under Peak conditions**(6) P.S. stand for pump stations.*



LOCATION MAP



CONNECT TO PROPOSED 3" DIP DOMESTIC WATER/ 6" DIP FIRE PROTECTION (SEE PWSA 2 & PWSA 3)

CONNECT INTERIOR PLUMBING TO PROPOSED 6" DIA SANITARY SERVICE LINE (SEE PWSA 2)

CONNECT INTERIOR DOWNSPOUT COLLECTION PIPING TO PROPOSED 6" DIA STORM SERVICE LINE (SEE PWSA 2)

CLEANOUT (TYP)

COMMUNITY COLLEGE OF ALLEGHENY COUNTY  
PARCEL NUMBER: 7-H-339  
915 RIDGE AVE  
PITTSBURGH PA 15219

METER CROCK (PER PWSA REQUIREMENTS)

ABANDON WATER SERVICE LINE IN PLACE  
PWSA ACCOUNT #: 50655101001942  
PWSA METER #: 0096011248

TERMINATE EXISTING WATER SERVICE LINE AT APPROX. STATION 10+05 (PER PWSA REQUIREMENTS)

ABANDON SEWER LATERAL IN PLACE

TERMINATE EXISTING SEWER LATERAL, GROUT TO PROPERTY LINE (PER PWSA REQUIREMENTS)

2" DOMESTIC WATER SERVICE

PROPOSED GATE VALVE W/ MEG BOX (PER PWSA REQUIREMENTS)

THRUST BLOCK (PER PWSA REQUIREMENTS)

PROPOSED 6" DIP WATER SERVICE TAP-IN AT STA. 10+74 (PER PWSA REQUIREMENTS)

PROPOSED 8" PVC SEWER SERVICE TAP-IN AT STA. 2+27, NEW 18"X18"X8" PVC CUT-IN WYE (PER PWSA REQUIREMENTS)

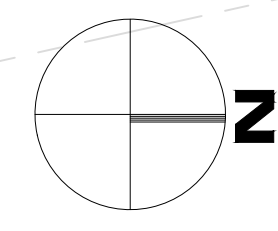
8" SDR35 PVC

PROPOSED 8"X8"X6" PVC WYE CONNECTION W/ REDUCER (PER PWSA REQUIREMENTS)

PWSA 18" VCP COMBINED SEWER

PWSA 12" WATER MAIN

UPSTREAM MANHOLE "MH008E040"



PEAK OPERATING WATER DEMANDS								
METER INFORMATION					DOMESTIC SYSTEM		FIRE SYSTEM	
I.D	QUANTITY	SIZE	TYPE	USE	FLOW, GPM	PRESSURE, PSI	FLOW, GPM	PRESSURE, PSI
A	1	2"	POSITIVE DISPLACEMENT	DOMESTIC	90	60		
B	1	3/4"	POSITIVE DISPLACEMENT	FIRE			750	70
C								
D								
E								

METER SIZE: 5/8", 5/8" x 3/4", 3/4", 1", 2", 3", 4", 6", 8", 10", 12", 16"  
METER TYPE: POSITIVE DISPLACEMENT, COMPOUND, ELECTROMAGNETIC, ULTRASONIC, TURBINE  
METER USE: DOMESTIC, FIRE, COMBINATION

PEAK DAILY FLOW DEMANDS			
TO BE COMPLETED BY THE APPLICANT:			
TYPE OF FLOW	SANITARY, GPD	WATER, GPD	STORM, CFS
PROJECT FLOW	1,130	1,130	0.81
EXISTING FLOW	0	0	0.81
NET FLOW	1,130	1,130	NOT REQUIRED
PWSA W&S USE APPROVAL DATE (IF REQUIRED)	NOVEMBER 4, 2020		
DEP SFFM APPROVAL DATE (IF REQUIRED)	FEBRUARY 4, 2021		

**HYDRANT FLOW TEST RESULTS**  
TO BE COMPLETED BY APPLICANT:  
DATE OF TEST: 10-09-2020  
HYDRANT PERMIT NUMBER: 20-106  
PERFORMED BY: KEVIN KELSO

**FLOW HYDRANT**  
HYDRANT NUMBER: F124  
LOCATION: 901 RIDGE AVE  
FLOW OBSERVED, GPM: 1,250 gpm

**PRESSURE HYDRANT**  
HYDRANT NUMBER: F189  
LOCATION: 921 RIDGE AVENUE  
STATIC PRESSURE, PSI: 78 psi  
RESIDUAL PRESSURE, PSI: 75 psi

**CALCULATIONS**  
PROJECTED FLOW AT 20 PSI, GPM \_\_\_\_\_

**SPRINKLER SYSTEM DESIGN INFORMATION**  
TO BE COMPLETED BY APPLICANT:  
LOCATION(S) \_\_\_\_\_

**TYPE OF SYSTEM (CHECK ONE)**  
\_\_\_\_ 13D  
\_\_\_\_ 13R  
 13  
\_\_\_\_ OTHER: \_\_\_\_\_

**SYSTEM CONFIGURATION (CHECK ONE)**  
\_\_\_\_ STAND-ALONE SPRINKLER SYSTEM  
 MULTI-PURPOSE SPRINKLER SYSTEM

**HOSE DEMANDS (N/A FOR 13D SYSTEM)**  
INSIDE HOSE DEMAND, GPM - 100 GPM  
OUTSIDE HOSE DEMAND, GPM - 150 GPM

**NOTE:**  
PENNSYLVANIA ONE-CALL SERIAL NO: 20202132392-000

**THE PITTSBURGH WATER & SEWER AUTHORITY APPROVAL BLOCK**  
TO BE COMPLETED BY APPLICANT:  
(CHECK ALL THAT APPLY)

NEW WATER CONNECTION(S)  
 NEW SEWER CONNECTION(S)  
 REUSE EXISTING WATER CONNECTION(S)  
 REUSE EXISTING SEWER CONNECTION(S)  
 TERMINATE EXISTING WATER CONNECTION(S)  
 TERMINATE EXISTING SEWER CONNECTION(S)  
 PRIVATE CONSTRUCTION OF PUBLIC FACILITIES

TO BE COMPLETED BY PWSA:  
(REQUIRED FOR ALL APPROVALS)

REVIEWER \_\_\_\_\_

CHEIF OF OPERATIONS \_\_\_\_\_  
(REQUIRED FOR "PRIVATE CONSTRUCTION OF PUBLIC FACILITIES" ONLY)

DIRECTOR OF ENGINEERING AND CONSTRUCTION \_\_\_\_\_

PWSA PROJECT NUMBER \_\_\_\_\_

TAP C RECORD NUMBER 20014.07

SIGNATURES / APPROVAL BY PWSA ARE FOR THE PHYSICAL CONNECTION(S) TO THE WATER AND/OR SEWER SYSTEM ONLY. RESPONSIBILITY FOR THE DESIGN AND WORK DEPICTED BY THE DRAWINGS, INCLUDING THE FLOW DESIGN FOR THE FACILITIES, IS BY THE PROFESSIONAL ENGINEER SHOWN BY THE SEAL AND SIGNATURE AFFIXED TO THE DRAWING. THE PWSA DOES NOT REPRESENT OR WARRANT THAT THE WATER SUPPLY TO THE FACILITIES IS SUFFICIENT TO SUPPORT THE DESIGN.

**HAYES DESIGN GROUP**  
**HDG**  
ARCHITECTS

100 Ryan Court, Suite 11  
Pittsburgh, PA 15205  
Phone: 412.206.0410  
www.HayesDesign.com

ARCHITECT'S SEAL:

CONSULTANT'S LOGO:  
**Cosmos**  
TECHNOLOGIES

700 RIVER AVENUE SUITE 412  
PITTSBURGH, PA 15212  
OFFICE: (412) 321-5936  
FAX: (412) 321-3954  
EMAIL:  
INFO@COSMOSTECHNOLOGIESINC.COM  
WEBSITE:  
WWW.COSMOSTECHNOLOGIESINC.COM

CONSULTANT'S SEAL:  
PROFESSIONAL ENGINEER  
JASON JOHN BORNE  
PE0708K

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MARK	DATE	DESCRIPTION
ISSUED:	JANUARY 26, 2021	
PROJECT NO:	2004	

RENOVATIONS TO:  
**CCAC CENTER FOR FACULTY INNOVATION**

915 RIDGE AVENUE  
PITTSBURGH, PA 15212

OWNER:  
**CCAC - ALLEGHENY CAMPUS**

800 ALLEGHENY AVENUE  
PITTSBURGH, PA 15233

**WATER AND SEWER TAP-IN PLAN**  
**PWSA 1**



COUNTY OF



ALLEGHENY

**RICH FITZGERALD**  
COUNTY EXECUTIVE

March 10, 2021

Nathan Simpson  
Cosmos Technologies Inc.  
700 River Avenue, Suite 100  
Pittsburgh, PA 15212

**RE: SEWAGE FACILITIES PLANNING MODULE; ALLEGHENY COUNTY  
CCAC Chalfant Hall Renovation, City of Pittsburgh**

Dear Mr. Simpson:

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 9, 2021. The project proposes the following:

Project Description:	CCAC Chalfant Hall Renovation. Proposing the interior renovation as well as external enhancements of Parcel # 7-H-00339 currently containing a parking lot and 4-story vacant building into an approximately 17,600 sf space including offices, conference/meeting rooms, instructional spaces, labs, recording spaces, storage, utility rooms, restrooms, reception/security areas, landscaping, walkways, and parking improvements for the Center for Faculty Innovations located at 915 Ridge Avenue in the City of Pittsburgh, Allegheny County.
Sewage Flow:	1,130 GPD
Conveyance:	The flow from this site will be conveyed to the Pittsburgh Water & Sewer Authority (PWSA) collection system to ALCOSAN POC A-48 to the Allegheny River interceptor and then to the ALCOSAN Treatment Plant at Woods Run.
Sewer's Owner:	PWSA (collection) and ALCOSAN (interceptor)
Name of Sewage Treatment Plant:	ALCOSAN



DEBRA BOGEN, MD, DIRECTOR  
ALLEGHENY COUNTY HEALTH DEPARTMENT  
542 FOURTH AVENUE • PITTSBURGH, PA 15219  
PHONE (412) 687-ACHD (2243) • FAX (412) 578-6325  
[WWW.ALLEGHENYCOUNTY.US/HEALTHDEPARTMENT](http://WWW.ALLEGHENYCOUNTY.US/HEALTHDEPARTMENT)

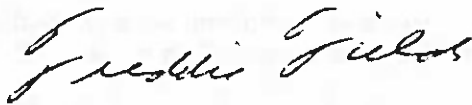


Please be advised that a permit must be obtained from the Allegheny County Health Department's (ACHD) Plumbing Section prior to commencing any plumbing work for the proposed project. Plumbing work for which an ACHD Plumbing Permit must be obtained includes any plumbing work done on the site and any sewers, 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, you can contact Ivo Miller, Plumbing Program Manager at 412-578-8393.

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

Sincerely,



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

FF/cb  
Enclosure

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



**Members of the Board**

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*Director  
Communications*

March 3, 2021

Jason Borne, P.E.  
Cosmos Technologies, Inc.  
700 River Avenue, Suite 100  
Pittsburgh, PA 15212

**Re: CCAC Chalfant Hall, City of Pittsburgh  
PA DEP Sewage Facilities Planning Module Component 3  
ALCOSAN Regulator Structure A-48**

Dear Mr. Borne:

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 1,130 GPD in the ALCOSAN Allegheny Interceptor and Woods Run Treatment Plant.

The capacity at the A-48-00 Regulator Structure is approximately 23.3 MGD. The monitored peak dry weather flow is approximately 4.78 mgd. Dry weather capacity exists for this connection. However, the ALCOSAN Allegheny 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 its Clean Water Plan.

ALCOSAN requests that this letter be made part of the planning module submission. The signed Component 3 Planning Module is attached. The sewers in this project are to be designed as separated sanitary and storm sewers. If you have any questions regarding this matter, please contact me at 412-732-8004.

Sincerely,

**ALLEGHENY COUNTY SANITARY AUTHORITY**

Michael Lichte, P.E.  
Manager of Planning

Attachment

CC: T. Dean (w/o attachment)  
Shawn McWilliams (w/o attachment)  
T. Flanagan/PaDEP (w/o attachment)

D. Thornton (w/o attachment)  
Barry King, PWSA (w/o attachment)  
F. Fields/ACHD (w/o attachment)

February 4, 2021

Nathan Simpson  
Cosmos Technologies, Inc  
700 River Ave, Suite 412  
Pittsburgh, PA 15212

Subject: Sewage Facilities Planning Module (SFPM)  
Approval Letter for Collection System Flows  
Project Name: 915 Ridge Avenue  
PWSA Project No.: 20014.07

Dear Nathan:

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

Our review was based on information provided by others under the assumption that this information was accurate and complete. Should you have any questions, please do not hesitate to contact me directly at x 8035 or [aflores@pgh2o.com](mailto:aflores@pgh2o.com).

Sincerely,



Ana Flores, EIT  
Associate Project Manager

Enclosures

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



To: Barry King, P.E. - Director of Engineering and Construction

From: Ana Flores

Date: February 3, 2021

Subject: Department of Environmental Protection (DEP) - Sewage Facilities  
Planning Module (SFPM)

Chapter 94 Consistency Determination

Project Name: 915 Ridge Avenue

Project Address: 915 Ridge Avenue Pittsburgh PA 15212

PWSA Project Number: 20014.07

Dear Barry,

The Pittsburgh Water and Sewer Authority (PWSA) received a SFPM application for the aforementioned Project. In accordance with Title 25 of the Pennsylvania Code, the PWSA is required to prepare an annual Wasteload Management Report on the collection and conveyance of wastewater relative to available capacity. Our review of the SFPM was conducted to understand how the Project will impact available dry-weather capacity and whether the proposed flows will contribute to a dry-weather hydraulic overload within the next five (5) years. Please note that a dry-weather hydraulic overload shall require both the denial of the SFPM and the submission of a Corrective Action Plan to the DEP.

We have determined that the Project will not contribute to a dry-weather hydraulic overload within the next five years. Please refer to the enclosed hydraulic calculations for additional information. Upon your approval, please sign and return the enclosed "Section J - Chapter 94 Consistency Determination" page from the SFPM.

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

Yours truly,



Ana Flores, EIT  
Associate Project Manager

Enclosures

cc: e-Builder – Filing System

**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 1,130 gpd
2. Total Sewage Flows to Facilities (pathway from point of origin through treatment plant)

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

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

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

	a. Design and/or Permitted Capacity (gpd)		b. Present Flows (gpd)		c. Projected Flows in 5 years (gpd) (2 years for P.S.)	
	Average	Peak	Average	Peak	Average	Peak
<b>Collection</b>	1,249,262	4,372,418	7,511	26,288	8,226	28,789
<b>Conveyance</b>						
<b>Treatment</b>						

3. Collection and Conveyance Facilities

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

YES NO

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

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

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

b. Collection System

Name of Agency, Authority, Municipality Pittsburgh Water and Sewer Authority

Name of Responsible Agent Barry King, PE, PMP

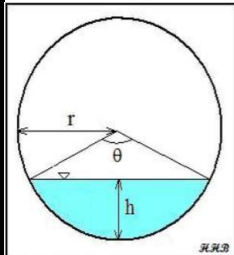
Agent Signature  Date 2/3/2021

**Sewage Facilities Planning Module**  
**Chapter 94 Consistency Determination**  
**Hydraulic Calculations Spreadsheet for Peak Present Flow Measurements**

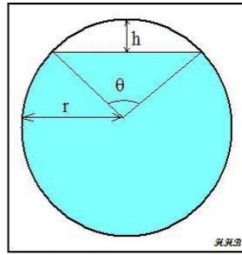
**PROJECT NAME:** 915 Ridge Avenue  
**PWSA PROJECT NUMBER:** 20014.07  
**PWSA REVIEWER:** Ana Flores  
**DATE:** January 26, 2021

**LEGEND:** Input Data Output Data

**Section A: Manning Equation for Partially Filled Pipes**



Partially Full Pipe Flow Parameters  
(Less Than Half Full)



Partially Full Pipe Flow Parameters  
(More Than Half Full)

Variable	Units	Description
Q	ft <sup>3</sup>	Volumetric flowrate
n	Unitless	Manning Roughness Coeff.
A	ft <sup>2</sup>	Cross-Sectional Area of Flow
R	ft	Hydraulic Radius
S	ft/ft	Slope of Hydraulic Grade Line
P	ft	Wetted Perimeter of "A"
r	ft	Radius
h	ft	Depth of Flow or Headspace
θ	radians	Central Angle

$$Q = \left(\frac{1.49}{n}\right) \times A \times R^{2/3} \times S^{1/2} \qquad R = \frac{A}{P} \qquad \theta = 2 \times \cos^{-1} \left(\frac{r-h}{r}\right)$$

$$A_{<50\% Full} = \frac{r^2(\theta - \sin \theta)}{2} \qquad \text{OR} \qquad A_{>50\% Full} = \pi \times r^2 \times \frac{r^2(\theta - \sin \theta)}{2}$$

$$P_{<50\% Full} = r \times \theta \qquad P_{>50\% Full} = (2 \times \pi \times r) - (r \times \theta)$$

**Section B: Data for Calculations**

Peaking Factor, P.F.	
Sanitary Sewers	3
Combined Sewers	3.5

Proposed Project Flows		
Variable	Value	Units
Q <sub>p</sub>	1,130	gpd

Variable	Value	Units
Material	VCP	
n	0.015	unitless
S	0.006	ft/ft
h	0.083	ft
D	1.50	ft
P.F.	3.5	unitless

**Section C: Calculations for Design and/or Permitted Capacities**

Variable	Description	Definition
Q <sub>d, avg</sub>	Design Capacity, Average	= full pipe flow conditions / peaking factor
Q <sub>d, peak</sub>	Design Capacity, Peak	full pipe flow conditions

Design Capacity, Average		
Variable	Value	Unit
Q <sub>d, avg</sub>	1,250,107	gpd

Design Capacity, Peak		
Variable	Value	Unit
D	1.500	ft
r	0.750	ft
A	1.767	ft <sup>2</sup>
P	4.712	ft
R	0.375	ft
Q <sub>d, peak</sub>	7	cfs
Q <sub>d, peak</sub>	4,375,373	gpd

#### Section D: Calculations for Present Flows

Variable	Description	Definition
Q <sub>ex, avg</sub>	Present Flows, Average	= Q <sub>ex, peak</sub> / P.F.
Q <sub>ex, peak</sub>	Present Flows, Peak	existing flow conditions per site investigations

Present Flows, Average		
Variable	Value	Unit
Q <sub>ex, avg</sub>	7,452	gpd

Present Flows, Peak		
Variable	Value	Unit
D	1.500	ft
r	0.750	ft
θ	0.95	rad
h/D	0.055333333	ft/ft
A	0.04	ft <sup>2</sup>
P	0.71	ft
R	0.054	ft
Q <sub>ex, peak</sub>	0	cfs
Q <sub>ex, peak</sub>	26,082	gpd

#### Section E: Calculations for Projected Flows in Five (5) Years

Variable	Description	Definition
Q <sub>proj, avg</sub>	Projected Flows in Five (5) Years, Average	= Q <sub>proj, peak</sub> ÷ P.F.
Q <sub>proj, peak</sub>	Projected Flows in Five (5) Years, Peak	= (Q <sub>ex, peak</sub> + Q <sub>p</sub> ) x 1.05

Projected Flow Calculations		
Variable	Value	Unit
Q <sub>proj, avg</sub>	8,164	gpd
Q <sub>proj, peak</sub>	28,573	gpd

#### Section F: Compare Results with Applicant's Submission

Variable	PWSA, gpd	Applicant, gpd	Difference, gpd	Difference, %
Q <sub>d, avg</sub>	1,250,107	1,249,262	845	0%
Q <sub>d, peak</sub>	4,375,373	4,372,418	2,955	0%
Q <sub>ex, avg</sub>	7,452	7,511	-59	-1%
Q <sub>ex, peak</sub>	26,082	26,288	-206	-1%
Q <sub>proj, avg</sub>	8,164	8,226	-62	-1%
Q <sub>proj, peak</sub>	28,573	28,789	-216	-1%

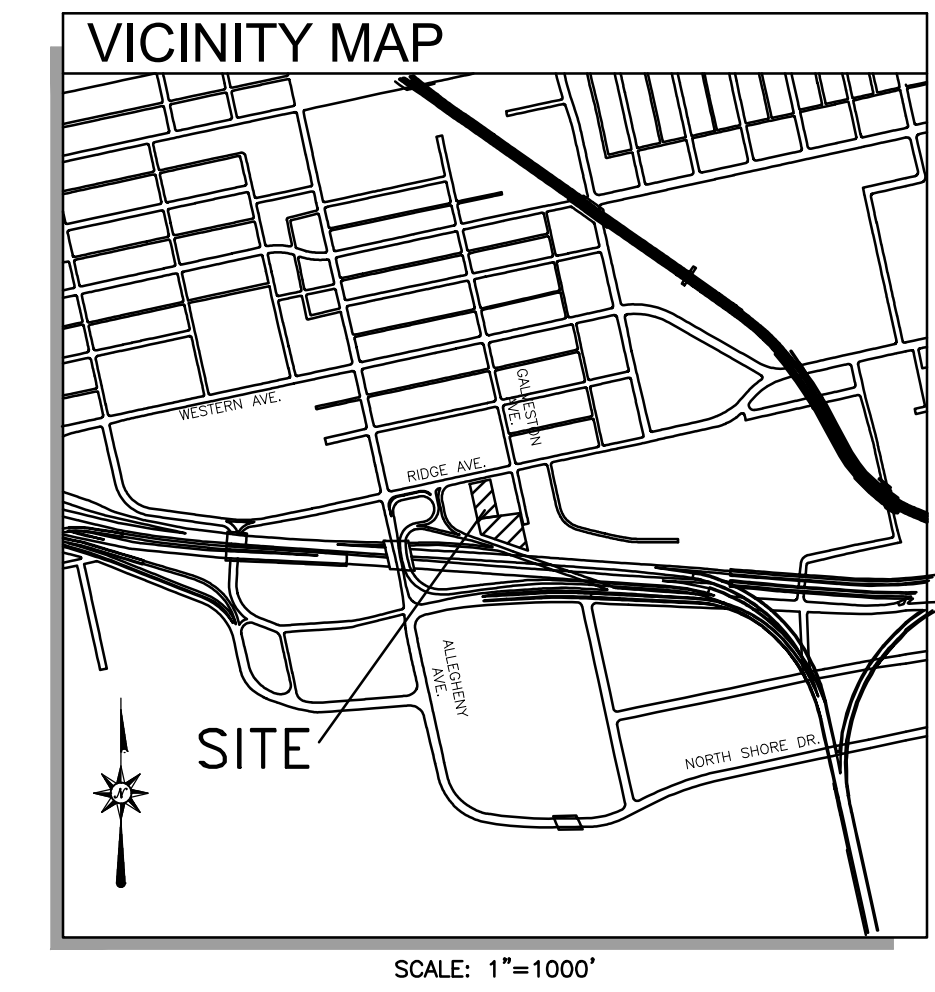
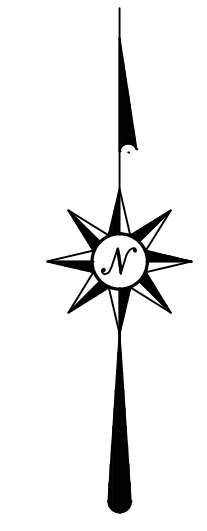
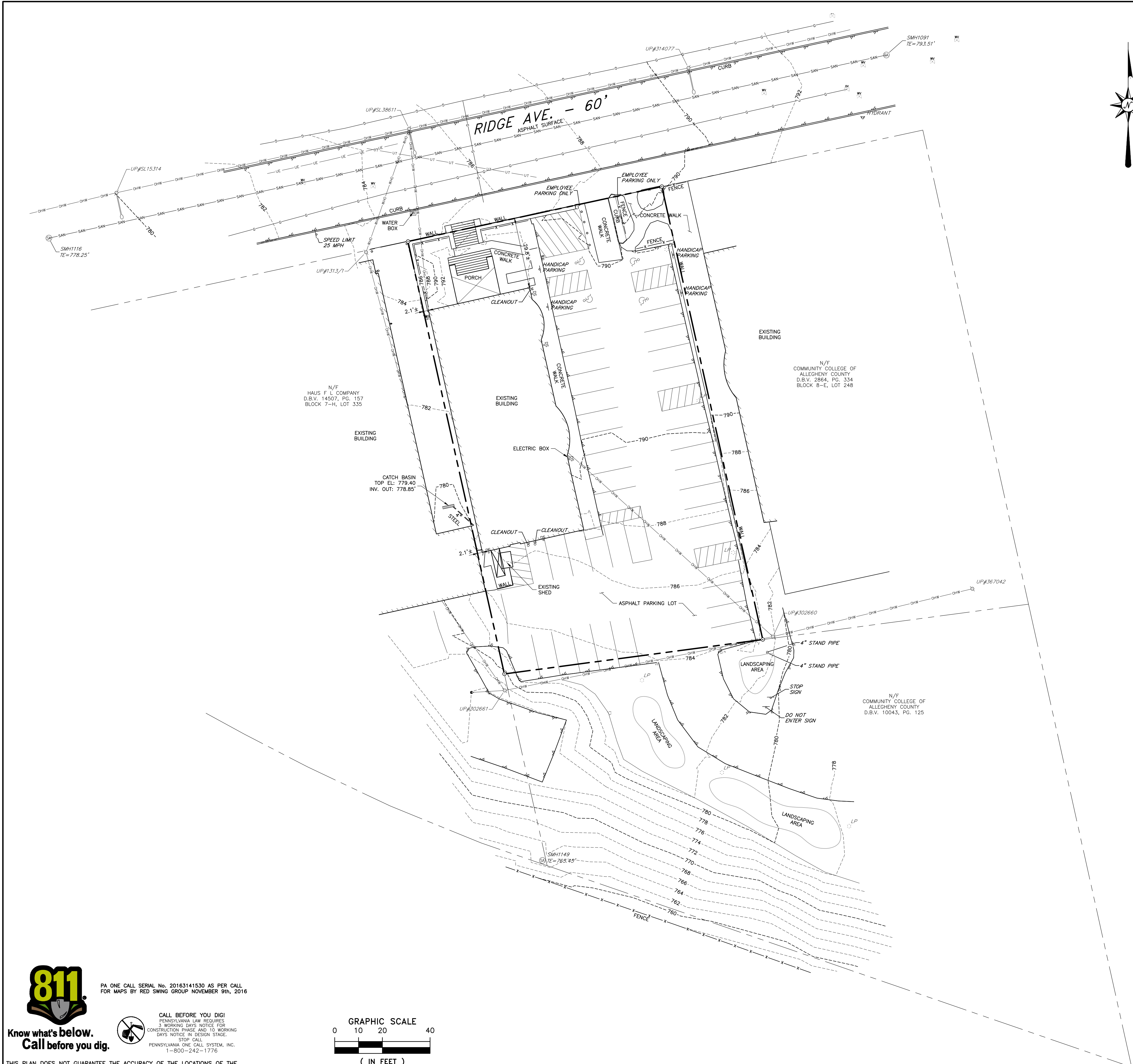
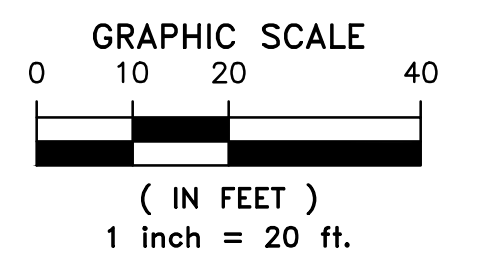


S:\19-1560 - Cosmos Technologies - 515 Ridge Ave\3D Design (DWG)\19-1560 - Cosmos Technologies - 515 Ridge Ave.dwg, Plotted: Jun 22, 2020 - 3:29pm



PA ONE CALL SERIAL No. 20163141530 AS PER CALL FOR MAPS BY RED SWING GROUP NOVEMBER 9th, 2016

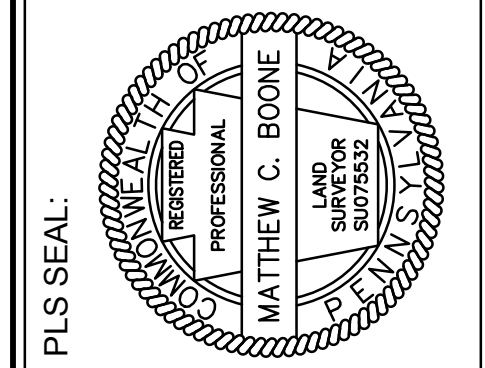
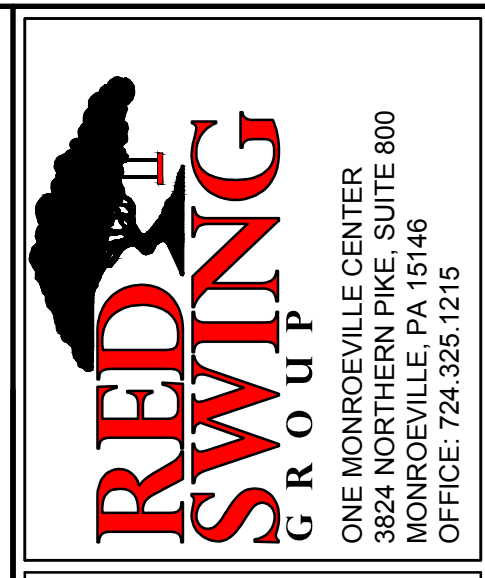
**CALL BEFORE YOU DIG!**  
 PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS NOTICE IN DESIGN STAGE.  
 STOP CALL PENNSYLVANIA ONE CALL SYSTEM, INC. 1-800-242-1776



**LEGEND**

---	PROPERTY LINE	---	ADJACENT PROPERTY
---	1 FT. INT. CONTOUR	---	5 FT. MAIN CONTOUR
-x-x-x-x-	FENCE	---	GAS SERVICE LINE
---	WATER SERVICE LINE	---	UNDERGROUND TELECOM.
---	UNDERGROUND ELECTRIC	---	OVERHEAD WIRES
---	SANITARY SEWER LINE	---	STORM SEWER LINE
○	PROPERTY CORNER	○	UTILITY POLE
⊕	FIRE HYDRANT	⊕	GAS METER
⊕	WATER VALVE	⊕	GAS VALVE
⊕	WATER CONTROL BOX	⊕	GAS POLE MARKER
⊕	DOWNSPOUT	⊕	CLEANOUT
⊕	LIGHT POLE	⊕	GUY WIRE
⊕	SANITARY MANHOLE	⊕	INLET

- NOTES**
1. THE BASIS OF BEARINGS IS BASED ON JOHN SIMPSON PLAN OF LOTS P.B.V. 4, PG. 53.
  2. THE ELEVATION DATUM IS NAVD88 DERIVED FROM GPS DATA.
  3. THE UNDERGROUND UTILITIES SHOWN ON THIS SURVEY HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION, MARKINGS PROVIDED BY THE UTILITY COMPANIES AND EXISTING DRAWINGS OBTAINED FROM UTILITY COMPANIES BY A PA ONECALL. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.
  4. PROPERTY MAY BE SUBJECT TO EASEMENTS, RIGHTS-OF-WAYS AND UTILITY ENCUMBRANCES THAT ARE IDENTIFIED IN THE CHAIN OF TITLE OR ARE VISIBLE ON THE PREMISES. ANY INFORMATION PROVIDED BY THE CLIENT OR LISTED IN THE DEEDS OF RECORD IS SHOWN ON THIS PLAN.
  5. RED SWING GROUP RESERVES THE RIGHT TO REVISE THIS DRAWING IF ADDITIONAL INFORMATION IS FOUND OR SUPPLIED IN THE FUTURE.



ACKNOWLEDGEMENT OR "SIGN-OFF" BY PARTIES TO THE CONSTRUCTION OF THIS PROJECT IS REQUIRED FOR ALTERATION OF LEASE TERMS. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OF THIS INFORMATION TO ANY OTHER PERSON, UNLESS THEY ARE WORKING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**TOPOGRAPHIC, BOUNDARY, AND UTILITY SURVEY**  
 PREPARED FOR  
**COSMOS TECHNOLOGIES**  
 SITUATE IN  
 CITY OF PITTSBURGH - 22ND WARD  
 ALLEGHENY COUNTY - PENNSYLVANIA

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: 19-1560  
 SCALE: AS SHOWN  
 DATE: 01/22/2020  
 DRAWN BY: MFS  
 CHECKED BY: MCB  
 APPROVED BY: MCB

**TOPOGRAPHIC, BOUNDARY, AND UTILITY SURVEY**

SHEET NO. 1 OF 1