

**Sewage Facilities Planning Module
Application Package**

for

Dr. Louis A. Venson Senior Lofts

City of Pittsburgh
Allegheny County, PA

September 26, 2023

Prepared for:

Venson Lofts Housing, L.P.
2121 Old Gatesburg Road
State College, PA 16803

Prepared by:

FAHRINGER, McCARTY, GREY, INC.
LANDSCAPE ARCHITECTS & ENGINEERS
1610 Golden Mile Highway
Monroeville, PA 15146
(724) 327-0599

Job No. 5235

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**SEWAGE FACILITIES PLANNING MODULE –
COMPONENT 3**



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

SEWAGE FACILITIES PLANNING MODULE

Component 3. Sewage Collection and Treatment Facilities

(Return completed module package to appropriate municipality)

DEP USE ONLY				
DEP CODE #	CLIENT ID #	SITE ID #	APS ID #	AUTH ID #

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

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

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

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

A. PROJECT INFORMATION (See Section A of instructions)

1. Project Name Dr. Louis A. Venson Senior Lofts

2. Brief Project Description Renovation of an existing school building into 36 residential apartments, along with 8 additional units between 4 duplex buildings across the project areas. Work will occur on 3 separate parcels (once consolidated) located on Cedarhurst Street.

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

Municipality Name	County	City	Boro	Twp
City of Pittsburgh	Allegheny	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Battistone	Martina			
Additional Individual Last Name	First Name	MI	Suffix	Title
Municipality Mailing Address Line 1	Mailing Address Line 2			
2000 Ross Street	Suite 4			
Address Last Line -- City	State	ZIP+4		
Pittsburgh	PA	15219		
Area Code + Phone + Ext.	FAX (optional)	Email (optional)		
412-255-2516				

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name

Venson Senior Lofts

Site Location Line 1
320 Cedarhurst Street

Site Location Line 2

Site Location Last Line -- City	State	ZIP+4	Latitude	Longitude
Pittsburgh	PA	15210	40°25'4.63"N	80° 0'6.37"W

Detailed Written Directions to Site From the North: Southwest on Crosstown Blvd., continue through Liberty Tunnel, Right onto US-19 Truck N, right onto W Warrington Avenue, right onto Estella Avenue, right onto Cedarhurst Street. From the South: North on Route 51, Right onto Bausman Street, left onto Bernd Street, left onto Chalfont Street, right onto Estella Avenue, left onto Cedarhurst Street

Description of Site Former School Property, adjacent to Cedarhurst Street, Palmetto Way, and Sylvania Streets.

Site Contact (Developer/Owner)

Last Name	First Name	MI	Suffix	Phone	Ext.
Haines	Andy			814-272-8907	

Site Contact Title Site Contact Firm (if none, leave blank)

Gatesburg Road Development

FAX

Email

AHaines@gatesburgroaddevelopment.com

Mailing Address Line 1

2121 Old Gatesburg Road

Mailing Address Line 2

Mailing Address Last Line -- City

State College

State

PA

ZIP+4

16803

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

Last Name	First Name	MI	Suffix
Swisher	Thomas		

Title

Consulting Firm Name

Registered Landscape Architect

Fahringer McCarty Grey Inc.

Mailing Address Line 1

1610 Golden Mile Hwy

Mailing Address Line 2

Address Last Line -- City

Monroeville

State

PA

ZIP+4

15146

Country

USA

Email

tswisher@fmginc.us

Area Code + Phone

724-327-0599

Ext.

Area Code + FAX

724-733-4577

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: PA American Water Company

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 _____

Connections _____

Name of:

existing collection or conveyance system _____

owner _____

existing interceptor SAW MILL RUN

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 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 WOODS RUN (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 Joe Fedor

Agent Signature Joe Fedor Date 8-11-23

(Also see Section I. 4.)

G. PROPOSED WASTEWATER DISPOSAL FACILITIES (Continued)

3. PLOT PLAN

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

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

4. WETLAND PROTECTION

YES NO

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

5. PRIME AGRICULTURAL LAND PROTECTION

YES NO

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

6. HISTORIC PRESERVATION ACT

YES NO

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

7. PROTECTION OF RARE, ENDANGERED OR THREATENED SPECIES

Check one:

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

Applicant or Consultant Initials _____

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

- An alternative sewage facilities analysis has been prepared as described in Section H of the attached instructions and is attached to this component.
The applicant may choose to include additional information beyond that required by Section H of the attached instructions.

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

1. Waters designated for Special Protection

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

2. Pennsylvania Waters Designated As Impaired

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

3. Interstate and International Waters

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

4. Tributaries To The Chesapeake Bay

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

Name of Permittee Agency, Authority, Municipality _____

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

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

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

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

1. Project Flows 3,200 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	2,696,991	9,439,469	236,816	828,856	249,617	873,659
Conveyance		6,910,000	157,000	232,000	167,000	241,000
Treatment	250,000,000	250,000,000	194,200,000	250,000,000	248,500,000	295,000,000

3. Collection and Conveyance Facilities

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

YES NO

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

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

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

- b. Collection System

Name of Agency, Authority, Municipality PWSA

Name of Responsible Agent Robert Herring

Agent Signature Robert Herring

Date 7/14/2023

2023.07.14
14:34:24 -04'00'

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 6,700 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	3,246,532	11,362,862	27,000	272,000	83,610	292,635
Conveyance		7,110,000	1,150,000	1,330,000	1,175,000	1,357,000
Treatment	250,000,000	250,000,000	194,200,000	250,000,000	248,500,000	295,000,000

3. Collection and Conveyance Facilities

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

YES NO

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

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

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

b. Collection System

Name of Agency, Authority, Municipality PWSA
 Name of Responsible Agent Robert Herring
 Agent Signature Robert Herring Date 7/14/2023
2023-07-14 14:34:40 -04'00'

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

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Joe Fedor

Agent Signature Joe Fedor

Date 8-11-23

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 Joe Fedor

Agent Signature Joe Fedor

Date 8-11-23

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 _____ 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.

Tom Swisher

Name (Print)

Registered Landscape Architect

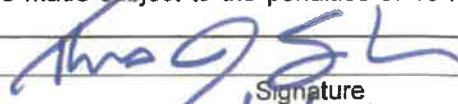
Title

1610 Golden Mile Highway

Address

724-327-0599

Telephone Number


Signature
0/9/23
Date

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.

$$\#25 \text{ Lots (or EDUs) X } \$50.00 = \$ 1250$$

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:

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

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:

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

SECTION C – AVILABILITY OF DRINKING SUPPLY



PENNSYLVANIA
AMERICAN WATER

VIA ELECTRONIC MAIL

August 19, 2021

Brian J. Almeter
Fahringer, McCarty, Grey, Inc.
Landscape Architects & Civil Engineers
1610 Golden Mile Hwy
Monroeville, PA 15146

Re: Water Availability
320 Cedarhurst Street, Pittsburgh, PA 15210
Vacant Beltzhoover School Site to Potential Residential Living
City of Pittsburgh - 18th Ward, Allegheny County

This letter is to advise that Pennsylvania American Water, Pittsburgh district, has an 6-inch water line available to provide service to the above referenced project.

Water service would be provided under our Rules and Regulations as approved by the Pennsylvania Public Utility Commission. Pennsylvania American Water is aware of the project, possesses capacity to serve the project and is willing to serve this project.

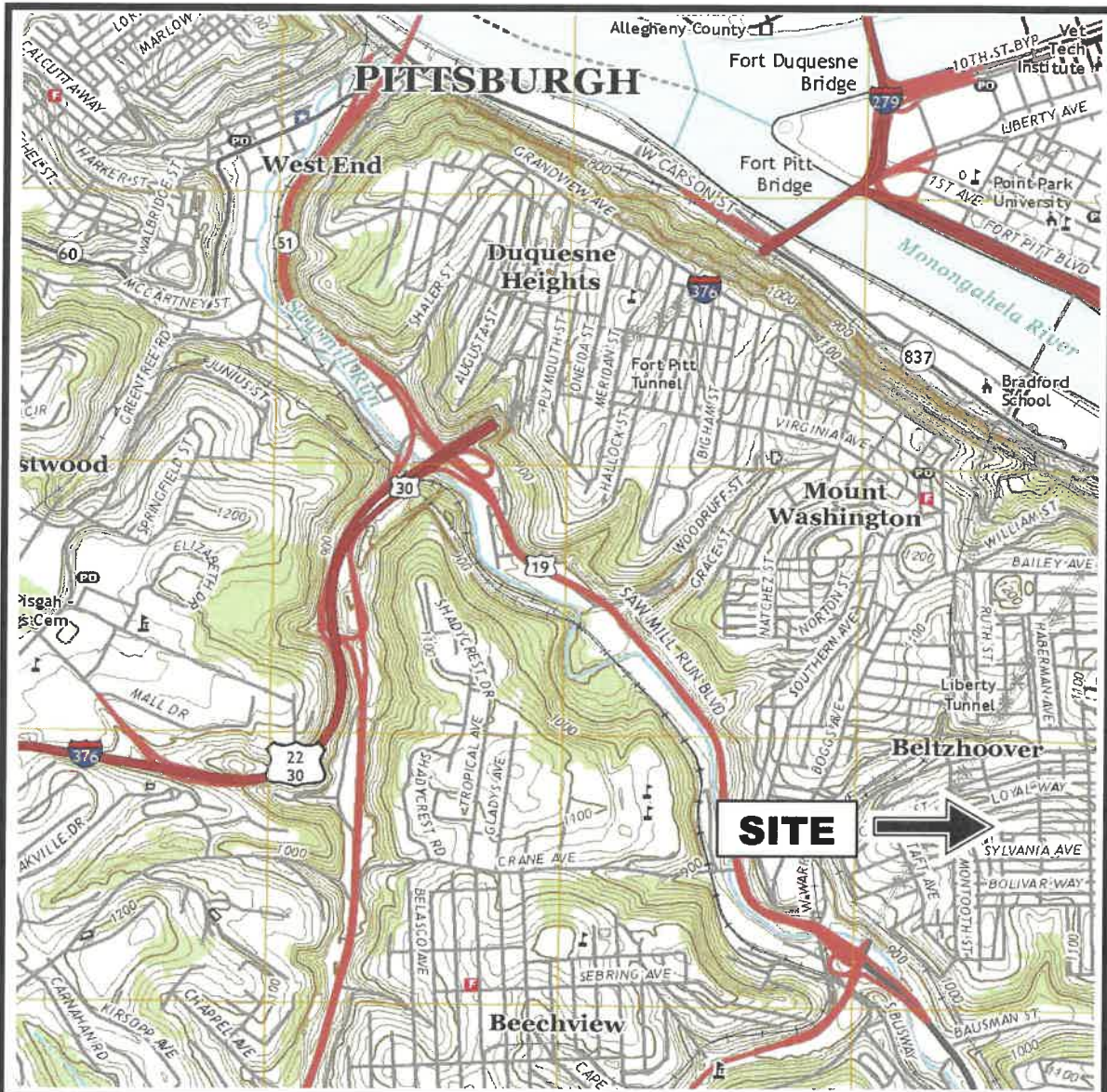
If additional demand and pressure requirements are expected, further review may be required. The Field Supervisor for this area is Jason Ciepley. He can be reached at 412-862-9099 and/or Jason.Ciepley@amwater.com.

If you have any questions or require any additional information, please contact me.

Sincerely,

James Jericho III
Sr. Superintendent Field Operations
Pennsylvania American Water
500 Noblestown Road
Carnegie, PA 15106
412-883-4580 - Office
412-508-9529 - Cell

SECTION F – PROJECT NARRATIVE



- Project Location Map -

Dr. Louis A. Venson Senior Lofts

City of Pittsburgh

Allegheny County, PA

SCALE: 1" = 2000'

JOB NO. 5235-01

SOURCE: Pittsburgh West 7 1/2 Minute U.S.G.S. Quadrangle

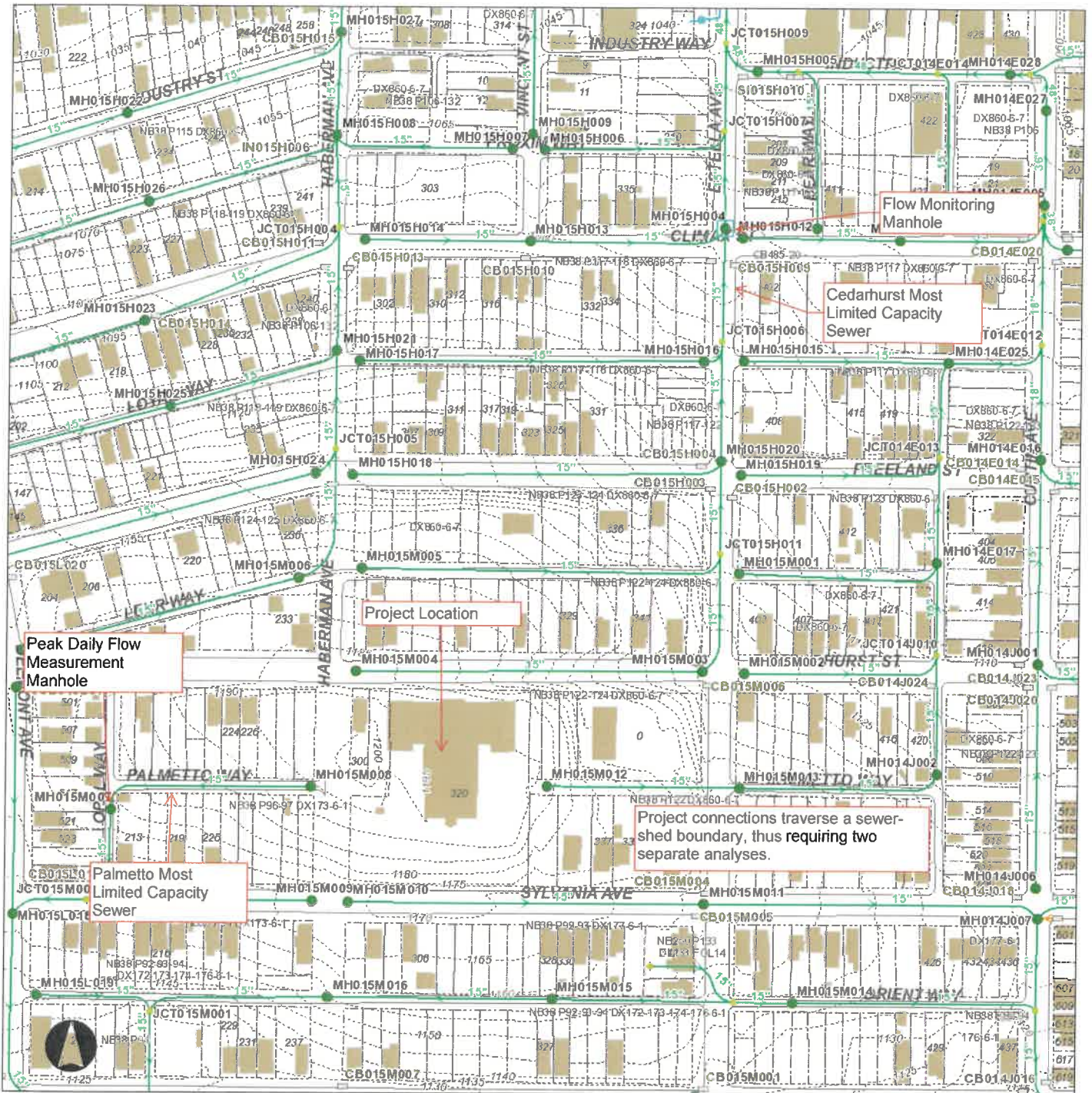


FAHRINGER, McCARTY, GREY, INC.

LANDSCAPE ARCHITECTS AND ENGINEERS

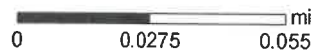
1610 Golden Mile Highway, Monroeville, PA 15146-2010

MLCS Map



Legend

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Neither the City of Pittsburgh nor the PWSA guarantees the accuracy of any of the information hereby made available, including but not limited to information concerning the location and condition of underground structures, and 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: 12/29/2022

Most Limited Capacity Sewer (MLCS) Spreadsheet

PROJECT NAME:	320 Cedarhurst
PSWA PROJECT NUMBER:	DEV-209-1222
PSWA REVIEWER:	Benjamin Grunauer
DATE:	December 29, 2022

LEGEND:

Output Data
Input Data
Questionable Data
Hydraulically Limited Sewer

PALMETTO CONNECTION MLCS

Upstream MH	Downstream MH	Upstream Invert	Downstream Invert	Length, ft	Diam., in.	Material	n	Area, sf	Wetted P, ft	Slope	Flow, gpd
MH015M008	MH015M007	1182.70	1163.00	302.38	15	VCP	0.015	1.23	3.927	6.51%	9,288,599
MH015M007	JCT015M002	1163.00	1153.75	143.74	15	VCP	0.015	1.23	3.927	6.44%	9,203,901
JCT015M002	MH015L018	1153.75	1144.50	109.05	15	VCP	0.015	1.23	3.927	8.48%	10,566,575
MH015L018	MH015L020	1144.50	1106.90	262.32	15	VCP	0.015	1.23	3.927	14.33%	13,736,026
MH015L020	MH015M020	1104.80	1091.34	182.20	18	VCP	0.015	1.77	4.712	7.39%	16,035,594
MH015M020	JCT015S001	1091.34	1078.09	139.86	18	VCP	0.015	1.77	4.712	9.47%	18,158,856
JCT015S001	MH015S005	1078.09	1062.84	156.63	20	VCP	0.015	2.18	5.236	9.74%	24,381,368
MH015S005	MH015S013	1062.84	1054.08	91.41	24	VCP	0.015	3.14	6.283	9.58%	39,329,886
MH015S013	MH015S006	1054.08	1029.75	242.98	24	VCP	0.015	3.14	6.283	10.01%	40,207,075
MH015S006	MH034D008	1029.75	966.77	474.66	24	VCP	0.015	3.14	6.283	13.27%	46,282,152
MH034D008	MH034D002	966.77	934.12	477.32	24	VCP	0.015	3.14	6.283	6.84%	33,230,771
MH034D002	MH034D003	934.12	891.28	136.56	24	VCP	0.015	3.14	6.283	31.37%	71,164,438
MH034D003	MH0034G01	888.46	851.50	1087.43	70	Brick	0.016	26.73	18.326	3.40%	381,384,000
MH0034G01	ADC034G529	851.50	848.80	32.66	70	Brick	0.016	26.73	18.326	8.25%	594,204,860

Material	n
PVC	0.010
DIP	0.012
Concrete	0.013
VCP	0.015
Brick	0.016

If possible, use in-situ elevation measurements for hydrologic flow analysis. The data on record is not reliable for both MLCS's.

CEDARHURST CONNECTION MLCS

MH015M003	JCT015H011	1125.60	1108.35	173.60	15	VCP	0.015	1.23	3.927	9.94%	11,436,863
JCT015H011	MH015H020	1108.35	1091.10	130.34	15	VCP	0.015	1.23	3.927	13.23%	13,198,744
MH015H020	JCT015H006	1091.10	1075.15	168.66	15	VCP	0.015	1.23	3.927	9.48%	11,157,142
JCT015H006	MH015H004	1075.15	1059.20	157.16	15	VCP	0.015	1.23	3.927	10.25%	11,558,188
MH015H004	JCT015H007	1059.20	1047.27	136.66	15	VCP	0.015	1.23	3.927	8.73%	10,719,628
JCT015H007	JCT015H009	1047.27	1039.32	122.90	15	VCP	0.015	1.23	3.927	6.47%	9,229,442
JCT015H009	MH015H003	1039.32	1023.41	62.49	48	Brick	0.016	12.57	12.586	25.46%	381,608,866
MH015H003	JCT015H010	1023.41	1022.82	77.28	72	Brick	0.016	28.27	18.850	0.76%	194,850,028
JCT015H010	MH015H001	1022.82	1022.23	31.45	72	Brick	0.016	28.27	18.850	1.88%	305,453,229
MH015H001	JCT015H012	1022.23	1018.02	222.27	72	Brick	0.016	28.27	18.850	1.89%	306,779,749
JCT015H012	JCT015H002	1018.02	1013.82	185.10	72	Brick	0.016	28.27	18.850	2.27%	336,172,667
JCT015H002	MH015H002	1013.82	1009.61	70.13	72	Brick	0.016	28.27	18.850	6.00%	546,160,914
MH015H002	JCT015H001	1009.61	1007.62	24.23	72	Brick	0.016	28.27	18.850	8.21%	639,028,346
JCT015H001	JCT015H013	1007.62	1005.63	122.55	72	Brick	0.016	28.27	18.850	1.62%	284,168,146
JCT015H013	MH015G026	1005.63	1003.64	328.19	72	Brick	0.016	28.27	18.850	0.61%	173,643,749
MH015G026	JCT015G002	1003.64	1001.19	182.84	72	Brick	0.016	28.27	18.850	1.34%	258,135,816
JCT015G002	MH015G003	1001.19	998.74	236.62	72	Brick	0.016	28.27	18.850	1.04%	226,912,773
MH015G003	MH015G027	998.74	991.57	120.30	72	Brick	0.016	28.27	18.850	5.96%	544,419,535
MH015G027	MH015G028	991.57	984.40	47.74	72	Concrete	0.013	28.27	18.850	15.02%	1,063,639,530
MH015G028	MH015G029	984.40	967.12	111.85	72	Concrete	0.013	28.27	18.850	15.45%	1,078,733,390
MH015G029	MH015G001	967.12	951.30	99.15	72	Concrete	0.013	28.27	18.850	15.96%	1,096,343,945
MH015G001	JCT015G001	951.30	932.56	26.61	72	Brick	0.016	28.27	18.850	70.40%	1,871,038,951
JCT015G001	MH015F016	932.56	920.07	297.03	72	Brick	0.016	28.27	18.850	4.20%	457,278,737
MH015F016	MH015K004	920.07	895.09	1144.57	72	Brick	0.016	28.27	18.850	2.18%	329,440,439
MH015K004	MH015K022	897.18	895.09	30.35	72	Brick	0.016	28.27	18.850	6.87%	584,863,987
MH015K022	MH015K002	895.09	880.13	217.70	72	Brick	0.016	28.27	18.850	6.87%	584,863,987
MH015K002	MH015K021	880.13	870.65	197.89	72	Brick	0.016	28.27	18.850	4.79%	488,101,229
MH015K021	MH015K001	870.65	863.58	147.56	72	Brick	0.016	28.27	18.850	4.79%	488,074,190
MH015K001	MH015P036	863.58	863.22	351.32	72	Brick	0.016	28.27	18.850	0.03%	39,518,551
MH015P036	MH015P018	863.22	863.11	96.53	72	Brick	0.016	28.27	18.850	0.11%	75,390,263
MH015P018	JCT015P001	863.11	863.00	93.06	72	Brick	0.016	28.27	18.850	0.12%	76,781,928
JCT015P001	MH015P029	863.00	844.00	133.30	72	Brick	0.016	28.27	18.850	14.25%	841,897,488
MH015P029	JCT015P011	844.00	843.00	25.30	72	Concrete	0.013	28.27	18.850	3.95%	545,667,016
JCT015P011	ADC015P532	843.00	830.50	166.60	72	Concrete	0.013	28.27	18.850	7.50%	751,783,646

**PROJECT NARRATIVE
AND
SEWAGE FLOW CALCULATIONS**
For
Dr. Louis A. Venson Senior Lofts
City of Pittsburgh – 18th Ward

Consultant: Thomas Swisher, Fahringer, McCarty, Grey Inc.
Agent for: Venson Lofts Housing L.P.
Date: December 22, 2022

Project Site Location, Zoning Classification and Proposed Use:

There are two areas to be developed within the scope of this project located on Cedarhurst Street, between Opal Way and Estella Avenue. The largest parcel, once consolidated, is approximately 2.35 acres in size. The existing school will be converted to senior-oriented apartments, including expansion of the building and the installation of two additional duplexes on the property. The apartment building will house 36 apartments, with 4 additional units between the two adjacent duplexes (40 total). The apartment building will have a sewage tap within Cedarhurst Street, while the duplexes will tap into a proposed sewage line connection to Palmetto Way.

The smaller parcel of work is located at the corners of Cedarhurst Street, Opal Way, and Palmetto Way. Six parcels will be consolidated into two lots, each lot housing a duplex containing 2 residential units (4 units total). The consolidated lots will be approximately 0.18 acres in size, each. Sewage taps for all units will be located off of Palmetto Way.

Existing and Proposed Water Consumption and Sewage Flow Estimates:

The past use of the properties included in this scope consists of the former Beltzhoover Sub-District School, four single family residences, and vacant land. The school has been vacant for more than 15 years, and will not be included in the existing flow calculations.

Existing Water Consumption:

Based on estimates from the developer's manual, the existing water usage for the site is:

Four (4) single-family residential units
4 units x 400 gpd= **1,600 gallons per day**

Proposed Water Consumption:

The proposed water consumption and sanitary flow for the proposed forty-four (44) apartment /dwelling units are as estimated below based on the PWSA Manual. The flow from these units are split between two sewersheds, noted between the Cedarhurst Street and Palmetto Way conveyance systems.

Cedarhurst Street - Sanitary Flow Calculations:

30 apartment (one bdrm) x 150 gallons/day	= 4,500 gallons/day
6 apartment (two bdrm) x 300 gallons/day	= 1,800 gallons/day
1 Community Service Facility (5,000 sf)	= 400 gallons/day
Total Sanitary Flow per day	= 6,700 gallons/day

Palmetto Way - Sanitary Flow Calculations:

8 single family residential units x 400 gallons	= 3,200 gallons/day
Total Sanitary Flow per day	=3,200 gallons/day

Total Sanitary Flow per day for full project =9,900 gallons/day

Proposed Sanitary Sewage Conveyance:

There is an existing 15” combination sewer system within Cedarhurst Street and Palmetto Way, which will service these properties. The work is proposed to be completed per the PWSA and ACHD Plumbing standards and specifications.

Estimated Stormwater Conveyance and Flows for the Existing and Proposed Conditions:

The existing 15" public combined sewer system in Cedarhurst Street and Palmetto Way will provide a location for the development to convey/connect the storm sewer system. It is anticipated that the stormwater system including inlets, manholes, storm lines, roof drain lines and detentions systems on the subject property will remain a private system.

The existing estimated storm flows were calculated based on the Rational Method, $Q=CiA$ using the 25-year storm event. This estimated calculation is based on area of the total sites to be developed in acres. Based on our schematic plans, additional impervious area will be minimal; however, it is our understanding that PCSM facilities will need to be designed to meet current city code requirements. The runoff coefficient is based on the areas of building roof, asphalt or concrete pavement, lawn and wooded conditions. The estimated runoff (pre and post development) from the entire property is as follows:

Where:

Q = maximum rate of runoff, cubic feet per second (cfs)

C = coefficient of runoff based on type and character of surface.

i = average rainfall intensity, inches per hour (7.1" per hour for 25-year storm.)

A = drainage area in acres (acreage of lots only)

Comparison based on current general parcel conditions and generic vegetative cover. As require by the City, a detailed PCSM Plan and Report will be completed as part of the Land Development Approval processes and will meet the current City Stormwater Management Ordinances.

EXISTING: $Q = CiA$

Impervious: $Q = 0.95 \times 7.1 \times 0.43 = 2.90$ cfs

Roof: $Q = 0.95 \times 7.1 \times 0.04 = 0.27$ cfs

Open: $Q = 0.30 \times 7.1 \times 0.17 = 0.36$ cfs

Meadow: $Q = 0.25 \times 7.1 \times 0.01 = 0.02$ cfs

Wooded: $Q = 0.25 \times 7.1 \times 1.33 = 2.36$ cfs

Total: 5.91 cfs

PROPOSED: $Q = CiA$

Impervious: $Q = 0.95 \times 7.1 \times 0.64 = 4.32$ cfs

Roof: $Q = 0.95 \times 7.1 \times 0.34 = 2.29$ cfs

Open: $Q = 0.30 \times 7.1 \times 0.45 = 0.96$ cfs

Meadow: $Q = 0.25 \times 7.1 \times 0.39 = 0.69$ cfs

Wooded: $Q = 0.25 \times 7.1 \times 0.16 = 0.28$ cfs

Total: 8.54 cfs

As noted above, a PCSM Plan will be prepared for the Dr. Louis A. Venson Senior Lofts development. The proposed development will utilize PCSM BMP's, inlets and pipes to control and convey the stormwater runoff from the proposed renovated/redeveloped property to the public system.

Sewer Scoping:

The existing 15" VCP Sewer in Cedarhurst Street, Sylvania Avenue, and Palmetto Way was inspected and scoped by Robinson Pipe Cleaning Company on December 13, 2022. The full report is included with the application package.

Flow Tests:

Flow monitoring was performed by Drnarch Environmental from January 14, 2023 through February 12, 2023 for a period of 30 days. It was performed at MH015H004, located at Estella Avenue. The line size at this location is 15 inches. The summary report and all supporting data is included. Average flows were 27,000 gpd. Average dry weather flows were 17,000 gpd. Peak flows were achieved on 01/19/2023 when a 0.70 inch rain event occurred and 01/25/2023 when a 0.32 inch rain event occurred. Maximum hourly flows were 52,000 gpd and 66,000 gpd.

Peak Flow Measurements:

Present flow measurements were performed by Drnarch Environmental on January 13, 2023 within MH015M007, located on Palmetto Way. The line size at this location is 15 inches. The summary report and all supporting data is included in this report.

Hydraulic Flow Calculations: Dr. Louis A. Venson Senior Lofts, Palmetto Way Sewershed

Palmetto Way: MH015M007

a. Design and/or Permitted Capacity (gpd)

Peak Design Capacity:

Using Manning's Equation for full-flow conditions,
Peak Design Flow = 14.61cfs = **9,439,469 gpd**

Existing sewer main along Palmetto Way that proposed flow will be conveyed to:

Existing Upstream Manhole #MH015M008 invert = 1182.70 (PWSA)
Existing Downstream Manhole #MH015M007 invert = 1162.24 (FMG Survey Measurements)
Length between Manholes = 302.38
Pipe diameter = 15 inch
Pipe material = VCP
"n" coefficient = 0.015
Slope = 0.0677 ft/ft
Area = 1.227 sf
Perimeter = 3.927ft
Hydraulic Radius = 0.313 ft

Average Design Capacity:

= Peak Design Capacity ÷ Peaking Factor (3.5 for Combination
Sewers) = 9,439,469 gpd ÷ 3.5 = **2,696,991 gpd**

b. Existing/Present Flows (gpd)

Existing Peak Flow:

Present flow of 3 inches was measured by Drnach Environmental on January 13, 2023.

Using Manning's Equation, for partially filled pipes,
Present Peak Flow = 1.28 cfs = **828,856 gpd**

Existing sewer main along Palmetto Way that proposed flow will be conveyed to:

Existing Upstream Manhole #MH015M008 invert = 1182.70 (PWSA)
Existing Downstream Manhole #MH015M007 invert = 1162.24 (FMG Survey Measurements)
Length between Manholes = 302.38
Pipe diameter = 15 inch
Pipe material = VCP
"n" coefficient = 0.015
Slope = 0.0677 ft/ft
Area = 1.227 sf
Perimeter = 3.927ft
Hydraulic Radius = 0.313 ft

Existing Average Flow:

$$\begin{aligned} &= \text{Present Peak Flow divided by Peaking Factor (3.5 for Combination Sewers)} \\ &= 828,856 \text{ gpd} / 3.5 = \mathbf{236,816 \text{ gpd}} \end{aligned}$$

c. Projected Flows in 5 years (gpd)

The project flow should represent a 5% increase from the sum of the present flow and the project flow due to increased density (per PWSA Procedures Manual for Developers)

Projected Peak Flow in 5 Years:

$$\begin{aligned} &= (\text{Present Peak Flow} + \text{Project Flow}) \times 1.05 \text{ (+5.0\% Flow Increase over 5 Years)} \\ &= (828,856 \text{ gpd} + 3200 \text{ gpd}) \times 1.05 = \mathbf{873,659 \text{ gpd}} \end{aligned}$$

Projected Average Flow in 5 Years:

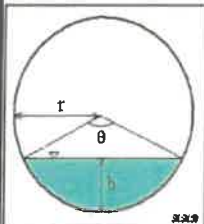
$$\begin{aligned} &= \text{Projected Peak Flow in 5 Years} \div \text{Peaking Factor (3.5 for Combination} \\ &\text{Sewers)} = 873,659 \text{ gpd} \div 3.5 = \mathbf{249,617 \text{ gpd}} \end{aligned}$$

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

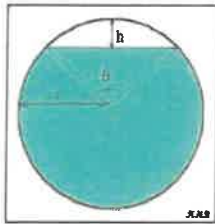
PROJECT NAME: Venson Lofts -Palmetto
PWSA PROJECT NUMBER:
PWSA REVIEWER:
DATE:

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 ³	Volumetric flowrate
n	Unitless	Manning Roughness Coeff.
A	ft ²	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

$$Q = \left(\frac{1.49}{n}\right) \times A \times R^{2/3} \times S^{1/2}$$

$$R = \frac{A}{P}$$

$$\theta = 2 \times \cos^{-1} \left(\frac{r-h}{r} \right)$$

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

OR

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

$$P_{<50\% \text{ Full}} = r \times \theta$$

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

Section B: Data for Calculations

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

Proposed Project Flows		
Variable	Value	Units
Q _p	3,200	gpd

Variable	Value	Units
Material	vcp	
n	0.015	unitless
S	0.068	ft/ft
h	0.250	ft
D	1.25	ft
P.F.	3.5	unitless

Section C: Calculations for Design and/or Permitted Capacities

Variable	Description	Definition
$Q_{d, avg}$	Design Capacity, Average	= full pipe flow conditions / peaking factor
$Q_{d, peak}$	Design Capacity, Peak	full pipe flow conditions

Design Capacity, Average		
Variable	Value	Unit
$Q_{d, avg}$	2,697,181	gpd

Design Capacity, Peak		
Variable	Value	Unit
D	1.250	ft
r	0.625	ft
A	1.227	ft ²
P	3.927	ft
R	0.313	ft
$Q_{d, peak}$	15	cfs
$Q_{d, peak}$	9,440,133	gpd

Section D: Calculations for Present Flows

Variable	Description	Definition
$Q_{ex, avg}$	Present Flows, Average	= $Q_{ex, peak} / P.F.$
$Q_{ex, peak}$	Present Flows, Peak	existing flow conditions per site investigations

Present Flows, Average		
Variable	Value	Unit
$Q_{ex, avg}$	236,196	gpd

Present Flows, Peak		
Variable	Value	Unit
D	1.250	ft
r	0.625	ft
θ	1.85	rad
h/D	0.2	ft/ft
A	0.17	ft ²
P	1.16	ft
R	0.151	ft
$Q_{ex, peak}$	1	cfs
$Q_{ex, peak}$	526,685	gpd

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

Variable	Description	Definition
$Q_{proj, avg}$	Projected Flows in Five (5) Years, Average	= $Q_{proj, peak} \div P.F.$
$Q_{proj, peak}$	Projected Flows in Five (5) Years, Peak	= $(Q_{ex, peak} + Q_p) \times 1.05$

Projected Flow Calculations		
Variable	Value	Unit
$Q_{proj, avg}$	248,965	gpd
$Q_{proj, peak}$	871,379	gpd

Section F: Compare Results with Applicant's Submission

<i>Variable</i>	<i>PWSA, gpd</i>	<i>Applicant, gpd</i>	<i>Difference, gpd</i>	<i>Difference, %</i>
$Q_{d, avg}$	2,697,181	2,696,991	190	0%
$Q_{d, peak}$	9,440,133	9,439,969	164	0%
$Q_{ex, avg}$	236,196	236,816	620	0%
$Q_{ex, peak}$	826,685	828,856	2,171	0%
$Q_{prol, avg}$	248,965	249,617	652	0%
$Q_{prol, peak}$	871,379	873,659	2,280	0%

Hydraulic Flow Calculations: Dr. Louis A. Venson Senior Lofts, Cedarhurst Street Sewershed

Estella Avenue: MH015H004

a. Design and/or Permitted Capacity (gpd)

Peak Design Capacity Flow Calculations:

Using Manning's Equation, Peak Design Flow = 17.5822 cfs = **11,362,862 gpd**

Existing sewer main along Estella Avenue that proposed flow will be conveyed to:

Existing Upstream Manhole #JCT015H006 invert = 1075.15 (PWSA)

Existing Downstream Manhole #MH015H004 invert = 1059.73 (FMG Survey Measurements)

Length between Manholes = 157.16

Pipe diameter = 15 inch

Pipe material = VCP

"n" coefficient = 0.015

Slope = 9.81% (0.0981 ft/ft)

Area = 1.227 sf

Perimeter = 3.927 ft

Hydraulic Radius = 0.313 ft

Average Design Capacity Flow Calculation:

Peak Design Flow divided by 3.5 for Combination Sewers

$$\frac{11,362,862 \text{ gpd}}{3.5} = 3,246,532 \text{ gpd}$$

b. Present Flows (gpd)

Average Present Flow Calculation:

30 days of monitoring were performed by Drnarch Environmental from 1/14/2023 to 2/12/2023 (report included). Average flows were **27,000 gpd**. Average dry weather flows were **17,000 gpd** (HR Ave Dry tab & Daily Sum tab in the report).

Peak Present Flow Calculations:

30 days of monitoring were performed by Drnarch Environmental from 1/14/2023 to 2/12/2023 (report included). Peak flows were achieved on 01/26/2023 when a 0.272mgd flow event occurred and 01/20/2023 when a 0.244mgd event occurred. Maximum hourly flows were **272,000 gpd** and **244,000 gpd** (Daily Sum tab in the report).

c. Projected Flow in 5 years (gpd)

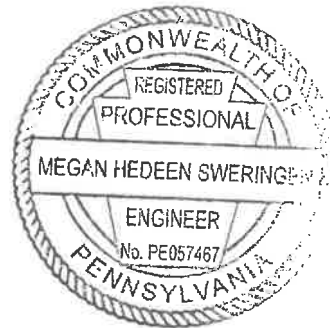
The project flow should represent a 5% increase from the sum of the present flow and the project flow due to increased density (per PWSA Procedures Manual for Developers)

Peak Projected Flow Calculation:

Peak Present Flow:	=	272,000 gpd
Project Flow:	=	6,700 gpd
Sum of Present and Project Flow:	=	278,700 gpd
	= (+ 5.0%)	= 292,635 gpd

Average Projected Flow Calculation (PWSA):

Peak Project Flow:	=	292,635 gpd
Peak Project Flow / 3.5 =	=	83,610 gpd

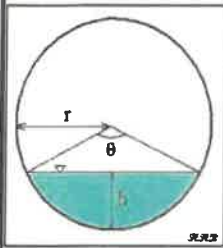


Sewage Facilities Planning Module
Chapter 94 Consistency Determination
Hydraulic Calculations Spreadsheet for Flow Monitoring

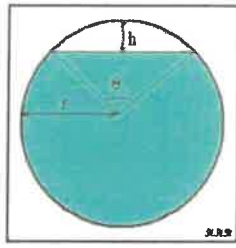
PROJECT NAME: Venson Lofts - Estella
PWSA PROJECT NUMBER:
PWSA REVIEWER:
DATE:

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 ³	Volumetric flowrate
n	Unitless	Manning Roughness Coeff.
A	ft ²	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

$$Q = \left(\frac{1.49}{n}\right) \times A \times R^{2/3} \times S^{1/2}$$

$$R = \frac{A}{P}$$

$$\theta = 2 \times \cos^{-1} \left(\frac{r-h}{r} \right)$$

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

OR

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

$$P_{<50\% \text{ Full}} = r \times \theta$$

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

Section B: Data for Calculations

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

Proposed Project Flows		
Variable	Value	Units
Q _p	6,700	gpd

Variable	Value	Units
Material	Vcp	
n	0.015	unitless
S	0.098	ft/ft
h		ft
D	1.25	ft
P.F.	3.5	unitless

Section C: Calculations for Design and/or Permitted Capacities

Variable	Description	Definition
Q _{d, avg}	Design Capacity, Average	= full pipe flow conditions / peaking factor
Q _{d, peak}	Design Capacity, Peak	full pipe flow conditions

Design Capacity, Average		
Variable	Value	Unit
Q _{d, avg}	3,246,760	gpd

Design Capacity, Peak		
Variable	Value	Unit
D	1.250	ft
r	0.625	ft
A	1.227	ft ²
P	3.927	ft
R	0.313	ft
Q _{d, peak}	18	cfs
Q _{d, peak}	11,363,661	gpd

Section D: Calculations for Present Flows

Variable	Description	Definition
Q _{ex, avg}	Present Flows, Average	determined via flow monitoring data
Q _{ex, peak}	Present Flows, Peak	determined via flow monitoring data

Present Flows, Average		
Variable	Value	Unit
Q _{ex, avg}	27,000	gpd

Present Flows, Peak		
Variable	Value	Unit
Q _{ex, peak}	272,000	gpd

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

Variable	Description	Definition
Q _{proj, avg}	Projected Flows in Five (5) Years, Average	= Q _{proj, peak} ÷ P.F.
Q _{proj, peak}	Projected Flows in Five (5) Years, Peak	= (Q _{ex, peak} + Q _p) x 1.05

Projected Flow Calculations		
Variable	Value	Unit
Q _{proj, avg}	83,610	gpd
Q _{proj, peak}	292,635	gpd

Section F: Compare Results with Applicant's Submission

Variable	PWSA, gpd	Applicant, gpd	Difference, gpd	Difference, %
Q _{d, avg}	3,246,760	3,246,532	228	0%
Q _{d, peak}	11,363,661	11,362,862	799	0%
Q _{ex, avg}	27,000	27,000	0	0%
Q _{ex, peak}	272,000	272,000	0	0%
Q _{proj, avg}	83,610	83,610	0	0%
Q _{proj, peak}	292,635	292,635	0	0%

**SECTION G –
PROPOSED WASTEWATER DISPOSAL FACILITIES
ITEM 3: TAP-IN PLANS &
DETAILS – SANITARY SEWER & WATER**

LEGEND - EXISTING CONDITIONS

- PROPOSED STORM LINE
 - PROPOSED SEWER MAIN
 - PROPOSED SAN LINE
 - EXISTING STORM LINE
 - EXISTING SEWER MAIN
 - EXISTING SAN LINE
- SANITARY AND STORM SEWER TAP-IN NOTES**
- 1. TAP CONNECTIONS SHALL BE MADE TO THE MAIN LINE AT THE POINT OF ENTRY TO THE BUILDING.
 - 2. TAP CONNECTIONS SHALL BE MADE TO THE MAIN LINE AT THE POINT OF ENTRY TO THE BUILDING.
 - 3. TAP CONNECTIONS SHALL BE MADE TO THE MAIN LINE AT THE POINT OF ENTRY TO THE BUILDING.

TAP-IN PLAN LEGEND:

THE SEWER LINES AND LATERAL LOCATIONS ARE SHOWN AS DOTTED LINES. THE SANITARY TAP LOCATIONS ARE SHOWN AS SOLID LINES. THE TAP CONNECTIONS SHALL BE MADE TO THE MAIN LINE AT THE POINT OF ENTRY TO THE BUILDING.

---	PROPOSED STORM LINE
---	PROPOSED SEWER MAIN
---	PROPOSED SAN LINE
---	EXISTING STORM LINE
---	EXISTING SEWER MAIN
---	EXISTING SAN LINE
---	NEW WATER CONNECTIONS
---	NEW SEWER CONNECTIONS
---	REUSE EXISTING WATER CONNECTIONS
---	REUSE EXISTING SEWER CONNECTIONS
---	TERMINATE EXISTING WATER CONNECTIONS
---	TERMINATE EXISTING SEWER CONNECTIONS
---	PRIVATE CONSTRUCTION OF PUBLIC UTILITIES

The PITTSBURGH WATER & SEWER AUTHORITY APPROVAL BLOCK
 To be completed by the Applicant and provided on each sheet of the plan set
 (Check in blue ink)

NEW WATER CONNECTIONS
 NEW SEWER CONNECTIONS
 REUSE EXISTING WATER CONNECTIONS
 REUSE EXISTING SEWER CONNECTIONS
 TERMINATE EXISTING WATER CONNECTIONS
 TERMINATE EXISTING SEWER CONNECTIONS
 PRIVATE CONSTRUCTION OF PUBLIC UTILITIES

To be completed by the PW&S
 (Required for ALL approvals)

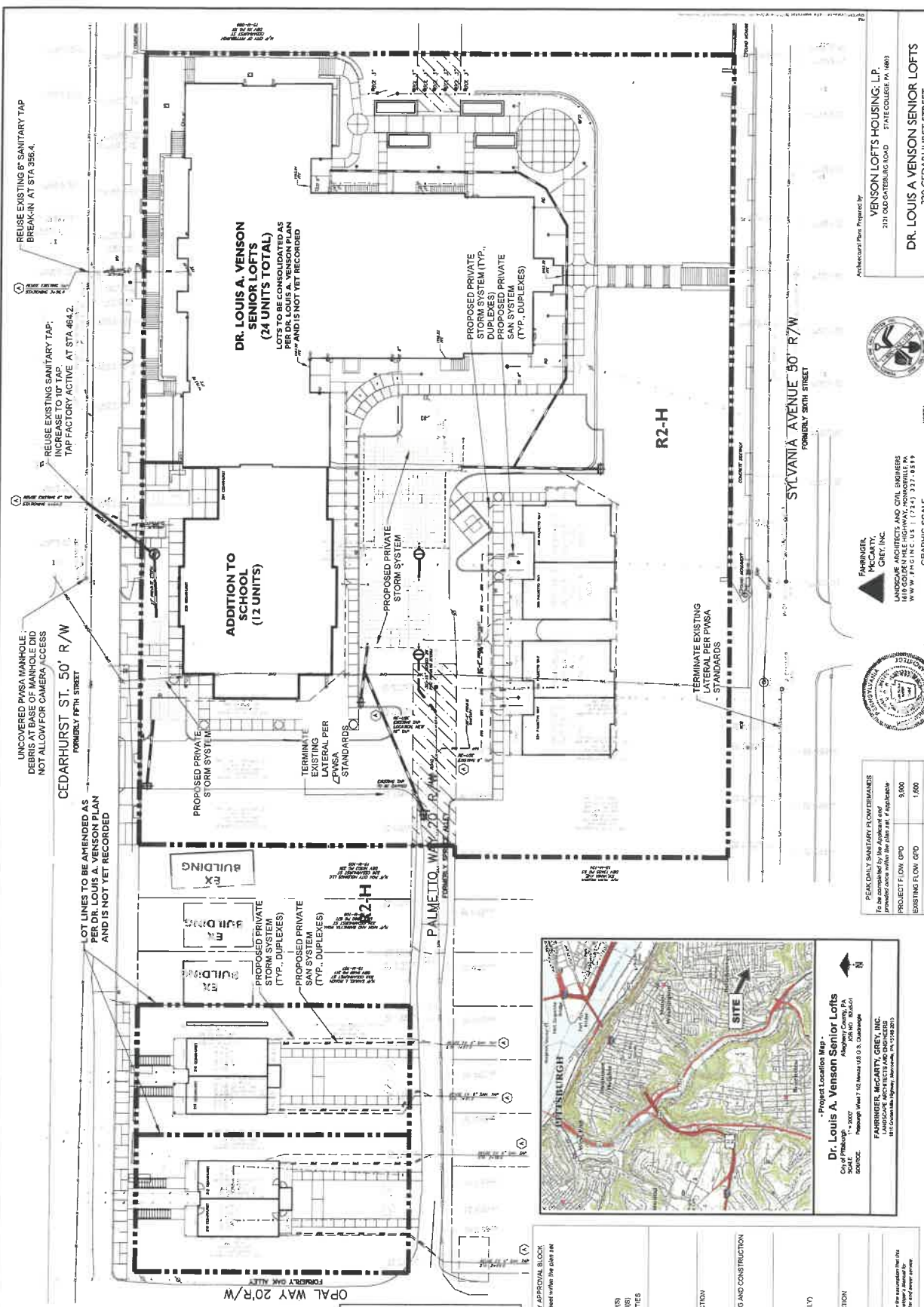
REVIEWER, DEPT. OF ENGINEERING AND CONSTRUCTION
 SENIOR PROJECT MANAGER, DEPT. OF ENGINEERING AND CONSTRUCTION
 DIRECTOR OF OPERATIONS

(Required by Private Construction of Public Facilities ONLY)
 DIRECTOR, DEPT. OF ENGINEERING AND CONSTRUCTION
 PW&S PROJECT NUMBER: **DEV-209-1222**
 TAP-C RECORD NUMBER

The Private Approvals are based on information provided by the owner under the assumption that the information is true and correct. The PW&S does not warrant the accuracy of the information provided by the owner. The PW&S is not responsible for obtaining water and sewer permits.

NOTES:

1. THE TOPOGRAPHIC INFORMATION (CONTOUR LINES) AND ROAD SKETCH ON THIS PLAN ARE COMBINATIONS OF PWSA, COUNTY, CITY AND FIELD WORK.
2. THE PROPERTY LINES SHOWN ON THIS PLAN ARE BASED ON THE COUNTY TAX ASSESSMENT OFFICE AND THE MAPS AND MAPLES 1ST PLAN OF BILTMORER FROM 1992.
3. THE PROPOSED SEWER AND WATER CONNECTIONS ARE SHOWN IN RED. THE EXISTING SEWER AND WATER CONNECTIONS ARE SHOWN IN BLACK.
4. THIS DRAWING SHOULD BE USED FOR PLANNING PURPOSES ONLY.



REUSE EXISTING & SANITARY TAP BREAK-IN AT STA. 356+4
 REUSE EXISTING SANITARY TAP INCREASE TAP FACTORY ACTIVE AT STA. 464+2
 UNCOVERED PWSA MANHOLE DEBRIS AT BASE OF MANHOLE DID NOT ALLOW FOR CAMERA ACCESS
 LOT LINES TO BE AMENDED AS PER OLD TO BE AMENDED AS PER OLD AND IS NOT YET RECORDED
 CEDARHURST ST. 50' R/W FORMERLY 8TH STREET
 PALMETTO WAY 20' R/W FORMERLY OAK ALLEY
 SYLVANIA AVENUE 50' R/W FORMERLY 6TH STREET

DR. LOUIS A. VENSON SENIOR LOFTS (24 UNITS TOTAL)
 LOTS TO BE CONSOLIDATED AS PER OLD TO BE AMENDED AS PER OLD AND IS NOT YET RECORDED

ADDITION TO SCHOOL (12 UNITS)

R2-H

PROPOSED PRIVATE STORM SYSTEM (TYP. DUPLICES)
 PROPOSED PRIVATE SAN SYSTEM (TYP. DUPLICES)

TERMINATE EXISTING LATERAL PER PWSA STANDARDS

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Accountant/Plan Prepared by:
VENSON LOFTS HOUSING, L.P.
 317 OLD GATEBURG ROAD STATE COLLEGE, PA 16803

DR. LOUIS A. VENSON SENIOR LOFTS
 320 CEDARHURST STREET
 CITY OF PITTSBURGH - 18TH WARD
 STORMWATER AND SANITARY TAP-IN PLAN

SCALE: 1"=20'
 DATE: JAN. 18, 2023
 SHEET: 1 OF 1
 REVISION DATE: JULY 21, 2023
 CASE NO.:
 ACCESSION NO. C:

FAHRINGER, MCCARTY, GREY, INC.
 LANDSCAPE ARCHITECTS AND CIVIL ENGINEERS
 WWW.FMG-INC.US | (724) 327-0579

GRAPHIC SCALE
 1"=20'

PROJECT FLOW GDP: 9,000
 EXISTING FLOW GDP: 1,000
 NET FLOW GDP: 8,000

NOTE: WATER SERVICE PROVIDED BY PA AMERICAN WATER COMPANY.

Project Location Map
 City of Pittsburgh
 August 20th, 2023
 SCALE: 1"=2000'
 SOURCE: Township Water 7-12 Issues GIS Data
 FAHRINGER, MCCARTY, GREY, INC.
 LANDSCAPE ARCHITECTS AND ENGINEERS
 810 Chestnut Hill Avenue, Pittsburgh, PA 15228

NOTE: SURVEY INFORMATION
 THIS PLAN IS A COMBINATION OF PWSA, COUNTY, CITY AND FIELD WORK.
 THE PROPERTY LINES SHOWN ON THIS PLAN ARE BASED ON THE COUNTY TAX ASSESSMENT OFFICE AND THE MAPS AND MAPLES 1ST PLAN OF BILTMORER FROM 1992.
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**SECTION G –
PROPOSED WASTEWATER DISPOSAL FACILITIES
ITEM 7: PNDI SEARCH**

1. PROJECT INFORMATION

Project Name: **Venson Senior Lofts**

Date of Review: **12/21/2022 10:08:32 AM**

Project Category: **Development, Additions/maintenance to existing development facilities**

Project Area: **6.12 acres**

County(s): **Allegheny**

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

ZIP Code:

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

Watersheds HUC 8: **Upper Ohio**

Watersheds HUC 12: **Sawmill Run**

Decimal Degrees: **40.417850, -80.002300**

Degrees Minutes Seconds: **40° 25' 4.2601" N, 80° 0' 8.2808" W**



2. SEARCH RESULTS

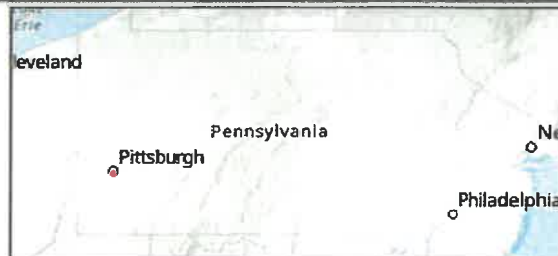
Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No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

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

Venson Senior Lofts

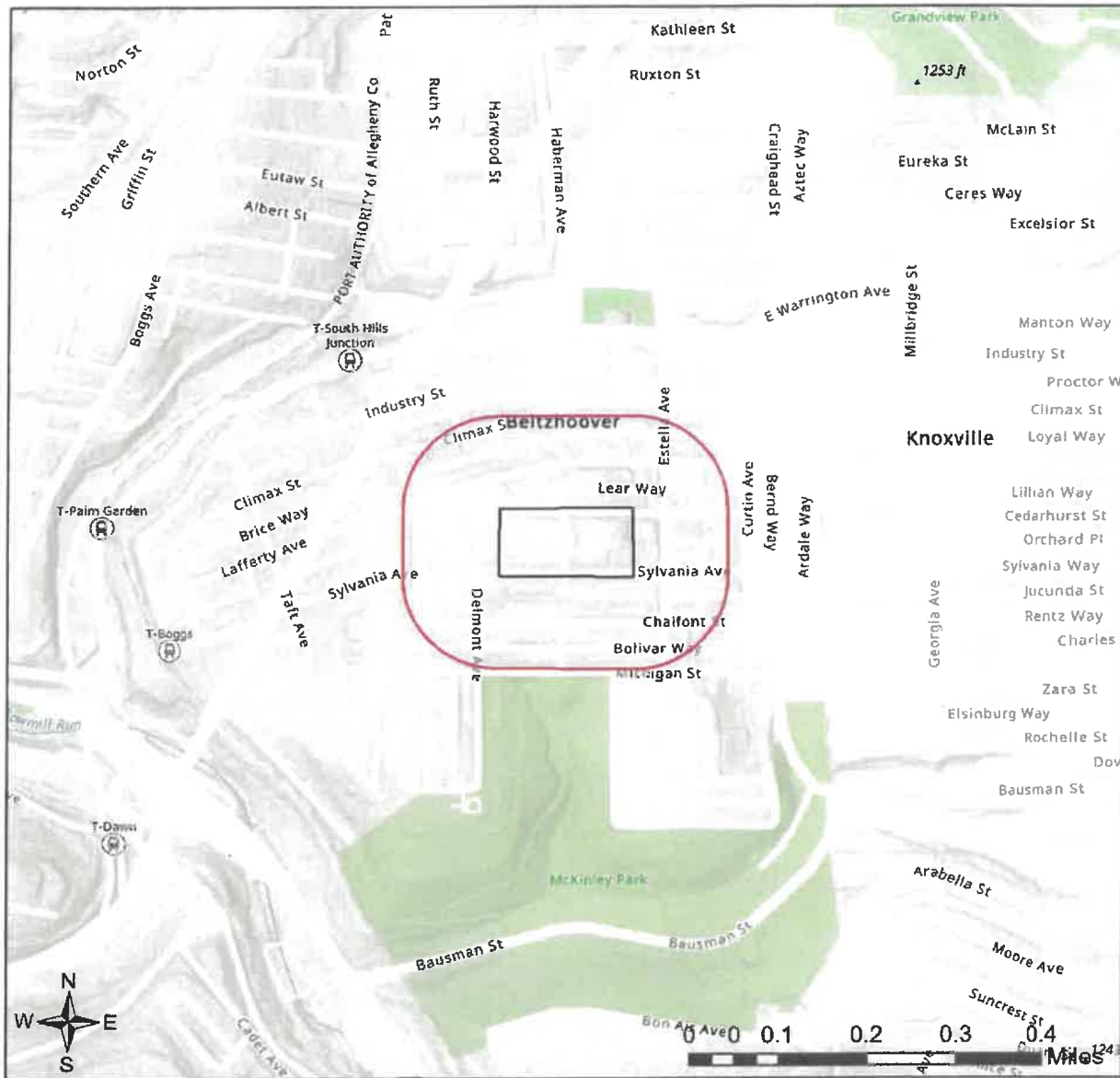


-  Buffered Project Boundary
-  Project Boundary

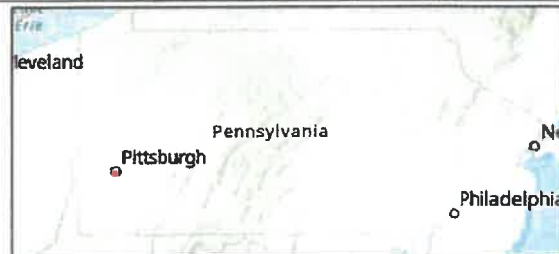


Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

Venson Senior Lofts



- Buffered Project Boundary
- Project Boundary



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

3. AGENCY COMMENTS

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

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

PA Game Commission

RESPONSE:

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

PA Department of Conservation and Natural Resources

RESPONSE:

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

PA Fish and Boat Commission

RESPONSE:

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

U.S. Fish and Wildlife Service

RESPONSE:

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

4. DEP INFORMATION

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

5. ADDITIONAL INFORMATION

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

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

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

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

PA Fish and Boat Commission

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

U.S. Fish and Wildlife Service

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

PA Game Commission

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

7. PROJECT CONTACT INFORMATION

Name: DAN GRAPER
Company/Business Name: FAHRINGER MCCARTY GREY INC.
Address: 1610 GOLDEN MILE HWY
City, State, Zip: MONROEVILLE, PA 15146
Phone: (724) 327-0599 Fax: (724) 733-4577
Email: DGRAPER@FMG.INC.US

8. CERTIFICATION

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


applicant/project proponent signature

12/21/2022
date

**SECTION H –
ALTERNATIVE ANALYSIS**

PROJECT ALTERNATIVES ANALYSIS

For the Venson Senior Lofts

Applicant: Gatesburg Road Development

Sewage Conveyance and Treatment Alternatives:

The proposed apartments and duplexes are to be serviced by connecting to the existing public system located in the adjacent public street. These private service lines will be gravity flow to the main publicly owned lines. The proposed private lateral locations were chosen to utilize existing taps and provide direct discharge from the building into this existing public system.

The adjacent land uses include existing multi-story dwelling units, and single-family residences that are typical of a mixed urban environment. The property is proposed to be developed in its entirety with no additional future development occurring on adjacent tracts. This project is considered an “urban” redevelopment.

This project is a private development. The adjacent public systems are adequately sized to accept the flows from units as well as the existing uses surrounding this development. Improvements to the existing public system are not necessary or proposed at this time.

This method of sewage disposal is consistent with PWSA’s standards. The existing building or site does not allow for on-lot sewage treatment or an individual treatment facility. In addition, the soil conditions are not conducive to perk sewer from the individual dwelling units. No other sewage conveyance or treatment options are available for this urban redevelopment project.

**SECTION J –
CHAPTER 94 –
CONSISTENCY DETERMINATION**

CONSISTENCY COMPONENTS

COMPONENT 4A – MUNICIPALITY PLANNING AGENCY REVIEW

COMPONENT 4C – COUNTY HEALTH AGENCY REVIEW



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

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 #: 02001-21-11

**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
320 Cedarhurst Venson Senior Lofts

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

1. Date plan received by municipal planning agency 3/17/2023
2. Date review completed by agency 4/5/2023

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

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

SECTION C. AGENCY REVIEW (continued)

Yes No

13. Is this proposal consistent with the ordinance?
If no, describe the inconsistencies _____

14. Is this plan consistent with the municipal Official Sewage Facilities Plan?
If no, describe the inconsistencies _____

15. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?
If yes, describe _____

16. Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?

If yes, is the proposed waiver consistent with applicable ordinances?
If no, describe the inconsistencies _____

17. Name, title and signature of planning agency staff member completing this section:

Name: Kyla Prendergast

Title: Senior Environmental Planner

Signature: *Kyla Prendergast*

Date: 4/5/2023

Name of Municipal Planning Agency: City of Pittsburgh Department of City Planning

Address 100 Ross St. Suite 202, Pittsburgh, PA 15219

Telephone Number: 412-522-6551

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.

COUNTY OF



ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

August 23, 2023

Thomas Swisher
Fahringer McCarty Grey, Inc.
1610 Golden Mile Highway
Monroeville, PA 15146

**RE: SEWAGE FACILITIES PLANNING MODULE: ALLEGHENY COUNTY
Dr. Louis A. Venson Senior Lofts, City of Pittsburgh**

Dear Mr. Swisher:

Enclosed is a signed copy of Component 4C, County or Joint County Health Department Review, for the above-referenced development. The complete Planning Module Component was received on August 17, 2023. The project proposes the following:

Project Description:	Proposed renovation of an existing school building into 36 residential apartments. In addition, 8 additional units across 4 duplexes will be built.
Sewage Flow:	3,200 GPD + 6,700 GPD = 9,900 GPD
Conveyance:	Flows will be collected from the buildings via two private laterals. Flows will be conveyed via a 15" sewer in Cedarhurst Street and Palmetto Way, connect to the Sawmill Run Interceptor at the S-29 Regulator (6,700 GPD) and S-32 Regulator (3,200 GPD) and then continue to the ALCOSAN Woods Run Treatment Plant.
Sewer's Owner:	PWSA (collection), ALCOSAN (interceptor)
Sewage Treatment Plant:	ALCOSAN

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



ALLEGHENY COUNTY HEALTH DEPARTMENT
WATER POLLUTION CONTROL & SOLID WASTE MANAGEMENT
3901 PENN AVENUE • BUILDING 5 • PITTSBURGH, PA 15224-1318
PHONE: 412.578.8040 • FAX: 412.578.8053
WWW.ALLEGHENYCOUNTY.US/HEALTHDEPARTMENT



Mr. Thomas Swisher
August 23, 2023
Page 2

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, please contact Drew Grese, Plumbing Program Manager, at 412-578-8055.

The ACHD has no objection to the approval of this project. If you have any questions, please call me at 412-578-8388.

Sincerely,



Gina Caliguri
Environmental Health Administrator II/Compliance Officer
Water Pollution Control & Solid Waste Management

Enclosure

cc: Regis Ryan, PA Department of Environmental Protection w/attachment
Drew Grese, ACHD w/attachment



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

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

Background

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

Who Should Complete the Component?

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

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

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

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

Section A. Project Name

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

Section B. Review Schedule

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

Section C. Agency Review

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

Section D. Additional Comments

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

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

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

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

Project Name

Dr. Louis A. Venson Senior Lofts

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

1. Date plan received by county or joint county health department 8/17/2023

Agency name Allegheny County Health Department (ACHD)

2. Date review completed by agency 8/21/2023

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. Please see attached letter.

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

Name: Gina Caliguri

Title: Environmental Health Administrator II/Compliance Officer

Signature: 

Date: 8/23/2023

Name of County Health Department: Allegheny County Health Department

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

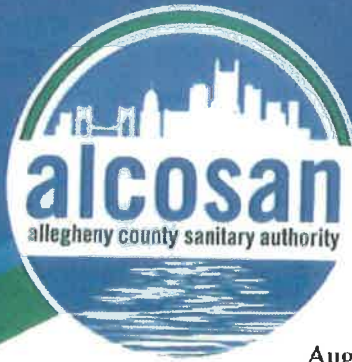
Telephone Number: 412-578-8388

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

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

The county planning agency must complete this component within 60 days.

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



August 15, 2023

Members of the Board

Sylvia C. Wilson
Chair Person
Shannah Tharp-Gilliam, Ph.D.
Harry Readshaw
Emily Kinkead
Paul Klein
Theresa Kail-Smith
Darrin Kelly

Arletta Scott Williams
Executive Director

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

Michelle M. Buys, P.E.
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Finance*

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Jeanne K. Clark
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Joseph Vallarian
*Director
Communications*

Julie Motley-Williams
*Director
Administration*

Phil Cole
*Chief Information Officer
Information Technology*

Thomas Swisher
Fahringer McCarty Grey, Inc.
1610 Golden Mile Highway
Monroeville, PA 15146

**Re: Dr. Louis A. Venson Senior Lofts
City of Pittsburgh – Allegheny County
PA DEP Sewage Facilities Planning Module
ALCOSAN Regulator Structure S-29-00 and S-32-00**

Dear Mr. Swisher,


We have reviewed the Component 3 Planning Module for the referenced project to be located at along Cedarhurst Street. The project will generate a peak flow of 3200 gpd to ALCOSAN regulator structure S-29-00 and 6,700 gpd to ALCOSAN regulator structure S-32-00 in the ALCOSAN Saw Mill Run Interceptor and Woods Run Treatment Plant.

The capacity of the ALCOSAN S-29-00 regulator structure is 6.01 MGD and the S-32-00 regulator structure is 7.11 MGD. The estimated peak dry weather flow for S-29-00 is approximately 0.232 MGD and S-32-00 is 1.33 MGD. Therefore, dry weather capacity exists for these connections. However, the Saw Mill Run 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. If you have any questions regarding this matter, please contact me at 412-734-8365.

Sincerely,

ALLEGHENY COUNTY SANITARY AUTHORITY


Joe Fedor

Attachment

cc: C. Dean (w/o attachment) R. Herring / PWSA (w/o attachment)
D. Thornton (w/o attachment) Mahuba Iasmin/PADEP (w/o attachment)
M. Lichte (w/o attachment) Gina Caliguri/ACHD (w/o attachment)