



**SEWAGE FACILITIES PLANNING MODULE
COMPONENT 3
HERRON AVENUE TOWNHOMES**

SITUATE IN:
CITY OF PITTSBURGH
ALLEGHENY COUNTY, PENNSYLVANIA

PREPARED FOR:
Laurel Communities
5813 Forbes Avenue
Pittsburgh, PA 15217

161763

December 17, 2019

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COUNTY OF



ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

February 4, 2020

Maureen Golar, EIT
PVE Engineering
Waterfront Corporate Park III
2000 Georgetowne Drive
Sewickley, PA 15143

**RE: SEWAGE FACILITIES PLANNING MODULE;
Herron Avenue Townhomes
City of Pittsburgh, ALLEGHENY COUNTY**

Dear Ms. Golar:

Enclosed is a signed copy of Component 4C, County or Joint County Health Department Review, for the above-referenced development. This Planning Module Component was received on February 3, 2020. The project proposes the following:

Project Description:	Herron Avenue Townhomes. Proposing to construct 30 new single-family townhomes at the site of a vacant parcels along Herron Avenue, between Ruthven Street and Linoleum Way and include consolidation and subdivision, as well as a new alley (private road) located in the City of Pittsburgh, Allegheny County.
Sewage Flow:	12,000 GPD
Conveyance:	The flow from this site will be conveyed to the Pittsburgh Water & Sewer Authority (PWSA) collection system to ALCOSAN POC A-22 to the Allegheny interceptor and then to the ALCOSAN Treatment Plant at Woods Run.
Sewer's Owner:	PWSA (collection) and ALCOSAN (interceptor)
Name of Sewage Treatment Plant:	ALCOSAN

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



KAREN HACKER, MD, MPH, DIRECTOR
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.ACHD.NET



Ms. Maureen Golar, EIT
February 4, 2020
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, you can call Ivo Miller, Plumbing Program Manager at 412-578-8393.

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

Sincerely,

A handwritten signature in blue ink that reads "Freddie Fields". The signature is written in a cursive style with a large initial 'F'.

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

Enclosure

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



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.



January 28, 2020

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Chair Person

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Ms. Maureen Golan, EIT
PVE, LLC
Waterfront Corporate Park III Suite 101
2000 Georgetowne Drive
Sewickley, PA 15143

**Re: Herron Avenue Townhomes – City of Pittsburgh
PA DEP Sewage Facilities Planning Module
ALCOSAN Regulator Structure A-22-00**

Dear Ms. Golan:

We have reviewed the Planning Module Component 3 for the referenced project. The project will generate an estimated flow of 12,000 GPD in the ALCOSAN Allegheny Interceptor and Woods Run Treatment Plant.

The capacity at the A-22-00 Regulator Structure is approximately 31.2 MGD. The monitored peak dry weather flow is approximately 10.8 MGD. Dry weather capacity exists for this connection. However, the ALCOSAN Allegheny Interceptor and the Woods Run Treatment Plant do not have the capacity for the flows generated during wet weather periods. This limitation will be addressed as ALCOSAN implements its wet weather facilities plan.

ALCOSAN requests that this letter be included as 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 412-732-8046.

Sincerely,

ALLEGHENY COUNTY SANITARY AUTHORITY

A handwritten signature in black ink, appearing to read "JS", is written over the typed name of Joseph Sparbanie, P.E.

Joseph Sparbanie, P.E.
Civil Engineer

Attachment

cc: Tina Dean (w/o attachment)
D. Thornton (w/o attachment)
Michael Lichte (w/o attachment)
Shawn McWilliams (w/o attachment)
Barry King, PWSA (w/o attachment)
T. Flanagan/PaDEP (w/o attachment)
Fred Fields/ACHD (w/o attachment)



January 10, 2020

Ms. Maureen Golan
PVE, LLC
Waterfront Corporate Park III
2000 Georgetowne Drive, Suite 101
Sewickley, PA 15143

Subject: Sewage Facilities Planning Module (SFPM)
Approval Letter for Collection System Flows
Project Name: Herron Avenue Townhomes
PWSA Project No.: 19013.73

Dear Ms. Golan:

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

Our review was based on information provided by others under the assumption that this information was accurate and complete. Should you have any questions, please do not hesitate to contact me directly at 412-255-8800 x5532 or RHerring@pgh2o.com.

Sincerely,



Robert Herring, P.E.
Engineering Consultant

Enclosures

cc: Barry King, P.E. - PWSA (via email)
Kate Mechler, P.E. - PWSA (via email)
Thomas Flanagan - DEP (via email)
Michael Lichte, P.E. - ALCOSAN (via email)
Leslie Stevens - City of Pittsburgh Law Department (via email)
eBuilder - Filing System (via email)

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412.255.2423

To: Barry King, P.E.

From: Robert Herring, P.E.

Date: December 20, 2019

Subject: DEP Sewage Facilities Planning Module - Component 3
Chapter 94 Consistency Determination
Hydraulic Calculation Review
Herron Avenue Townhomes

Dear Barry,

Pursuant to your request, we have reviewed the DEP Sewage Facilities Planning Module - Component 3 as submitted by PVE, LLC (Applicant) for the Herron Avenue Townhomes (Project) located at Herron Avenue, Pittsburgh, PA 15219. In accordance with Title 25 of the Pennsylvania Code, the Pittsburgh Water and Sewer Authority (PWSA) is required to prepare an annual Wasteload Management Report on the collection and conveyance of wastewater relative to available capacity. Our review was conducted to understand how the proposed Project will impact available dry-weather capacity and whether the proposed flows will contribute to a dry-weather hydraulic overload within the next five (5) years. Please note that a dry-weather hydraulic overload shall require denial of the Sewage Planning Module and submission of a Corrective Action Plan to the PaDEP.

Based on the foregoing, we have determined that the proposed Project will not contribute to a dry-weather hydraulic overload within the next five years. Please refer to the enclosed hydraulic calculations for the proposed tie-in location. Upon your approval, please sign the enclosed "Section J - Chapter 94 Consistency Determination" from the DEP Sewage Facilities Planning Module - Component 3, as indicated.

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

Yours truly,



Robert Herring, P.E.
Engineering Consultant

Enclosures



January 10, 2020

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

Subject: Tap Allocation Authorization Letter

Dear Mr. Flanagan:

Please be advised that the Pittsburgh Water and Sewer Authority (PWSA) authorizes the tap allocations associated with the following Project:

Project Name: Herron Avenue Townhomes
Project Address: Herron Avenue between Ruthven Street and Linoleum Way
Proposed Flow, gpd: 12,000
EDU's, 400gpd/EDU: 30

Our review is based on information provided by others under the assumption that this information was accurate and complete. Should you have any questions, please do not hesitate to contact me directly at 412-255-8800 x5532 or RHerring@pgh2o.com.

Sincerely,



Robert Herring, P.E.
Consultant - Engineering

cc: Barry King, P.E. - PWSA (via email)
Kate Mechler, P.E. - PWSA (via email)
PVE, LLC - Applicant (via email)
Regis Ryan - DEP (via email)
eBuilder - Filing System (via email)

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COMPONENT 3
APPENDIX

Code No.



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)

- Project Name HERRON AVENUE TOWNHOMES
- Brief Project Description 30 NEW TOWNHOMES FOR SINGLE-FAMILY USE, AND ASSOCIATED ALLEY AND LANDSCAPED OUTDOOR SPACE AT HERRON AVENUE, BETWEEN RUTHVEN STREET AND LINOLEUM WAY.

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

Municipality Name	County	City	Boro	Twp
PITTSBURGH	ALLEGHENY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
SMITH	BENJAMIN	I		ASSISTANT CITY SOLICITOR
Additional Individual Last Name	First Name	MI	Suffix	Title
Municipality Mailing Address Line 1	Mailing Address Line 2			
CITY-COUNTY BUILDING	414 GRANT STREET			
Address Last Line – City	State	ZIP+4		
PITTSBURGH	PA	15219		
Area Code + Phone + Ext.	FAX (optional)	Email (optional)		
412-255-2014		benjamin.smith@pittsburghpa.gov		

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name

HERRON AVENUE TOWNHOMES

Site Location Line 1

HERRON AVENUE & RUTHVEN STREET

Site Location Line 2

Site Location Last Line -- City

PITTSBURGH

State

PA

ZIP+4

15219

Latitude

40.459176

Longitude

-79.965029

Detailed Written Directions to Site FROM THE CITY OF PITTSBURGH, HEAD NORTHEAST ON GRANT ST TOWARDS SIXTH AVE. CONTINUE ON LIBERTY AVENUE FOR 1.9 MILES. TURN RIGHT ONTO HERRON AVE AND AFTER CROSSING THE BUSWAY, THE SUBJECT PROPERTY WILL BE ON THE LEFT AND STRAIGHT AHEAD UPHILL.

Description of Site THE SITE CONSISTS OF MOSTLY UNDEVELOPED PARCELS, WITH A SCATTERING OF EXISTING STRUCTURES (ABOUT 7 TO BE DEMOLISHED).

Site Contact (Developer/Owner)

Last Name

GILLESPIE

First Name

MARTY

MI

Suffix

Phone

412-853-7317

Ext.

Site Contact Title

PRINCIPAL

Site Contact Firm (if none, leave blank)

LAUREL COMMUNITIES

FAX

Email

mgillespie@laurelcommunities.com

Mailing Address Line 1

5813 FORBES AVENUE

Mailing Address Line 2

Mailing Address Last Line -- City

PITTSBURGH

State

PA

ZIP+4

15217

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

Last Name

GOLAN

First Name

MAUREEN

MI

Suffix

S

Title

EIT

Consulting Firm Name

PVE, LLC

Mailing Address Line 1

2000 GEORGETOWNE DRIVE

Mailing Address Line 2

SUITE 101

Address Last Line -- City

SEWICKLEY

State

PA

ZIP+4

15143

Country

USA

Email

MGOLAN@PVE-LLC.COM

Area Code + Phone

724-444-1100

Ext.

531

Area Code + FAX

724-444-1104

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: _____

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 30

Connections 30

Name of:

existing collection or conveyance system RUTHVEN STREET - 15" UNK.; LINOLEUM WAY - 15" PVC.
HERRON AVENUE - 36" RCP

owner PITTSBURGH WATER AND SEWER AUTHORITY

existing interceptor ALLEGHENY RIVER INTERCEPTOR

owner ALLEGHENY COUNTY SANITARY AUTHORITY

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 WWTP

NPDES Permit Number for existing facility PA - 0025984

Clean Streams Law Permit Number _____

Location of discharge point for a new facility. Latitude 402834 Longitude 800244

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 Joseph Sparbanie, P.E.

Agent Signature  Date 1/16/20

(Also see Section 7.4.)

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 12000 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	38148571	133520000	8370	29295	12389	43360
Conveyance		31,200,000	8,810,000	10,800,000	8,898,100	10,908,000
Treatment		250,000,000	216,100,000	250,000,000	202,900,000	250,000,000

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. This project proposes sewer extensions or tap-ins. Will these actions create a hydraulic overload within five years on any existing collection or conveyance facilities that are part of the system?

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

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

b. Collection System

Name of Agency, Authority, Municipality PITTSBURGH WATER AND SEWER AUTHORITY

Name of Responsible Agent Barry King, P.E. / Director of Engineering

Agent Signature [Signature] Date 1/10/2020

DEP Sewage Facilities Planning Module
 Chapter 94 Consistency Determination
 Hydraulic Calculations Review

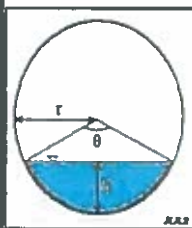
LEGEND:

Input Data

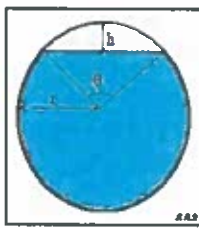
Output Data

PROJECT NAME: Herron Avenue Townhomes
 PROJECT LOCATION: Herron Avenue, Pittsburgh, PA 15219
 TIE-IN LOCATION: 36" RCP
 PWSA REVIEWER: Robert Herring, P.E.
 DATE: December 20, 2019

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

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

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

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

Section B: Data for Calculations

Variable	Value	Units
n	0.013	unitless
Material	RCP	
S	0.095	ft/ft
h	0.020	ft
D	3.00	ft
h/D	0.006667	ft/ft
P.F.	3.5	unitless

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

Proposed Project Flows		
Variable	Value	Units
Q _p	12,000	gpd

Section C: Design Flow Calculations

Variable	Description	Definition
Q _{d, peak}	Design Peak Flow	full pipe flow conditions
Q _{d, avg}	Design Avg. Flow	full pipe flow conditions divided by the peaking factor

Peak Design Flow Calcs		
Variable	Value	Unit
D	3.030	ft
r	1.500	ft
A	7.069	ft ²
P	9.425	ft
R	0.750	ft
Q _{d, peak}	207	cfs
Q _{d, peak}	133,506,529	gpd

Average Design Flow Calcs		
Variable	Value	Unit
Q _{d, avg}	38,144,722	gpd

Section D: Existing Flow Calculations

Variable	Description	Definition
Q _{ex, avg}	Existing Avg. Flow	existing flow conditions based on flow depth measurement
Q _{ex, peak}	Existing Peak Flow	the average existing flow multiplied by the peaking factor

Existing Average Flow Calcs		
Variable	Value	Unit
D	3.000	ft
r	1.500	ft
θ	0.33	rad
A	0.01	ft ²
P	0.49	ft
R	0.013	ft
Q _{ex, peak}	0	cfs
Q _{ex, peak}	8,369	gpd

Existing Peak Flow Calcs		
Variable	Value	Unit
Q _{ex, avg}	29,293	gpd

Section E: Projected Flow Calculations

Variable	Description	Definition
Q _{proj, peak}	Projected Peak Flow	$= (Q_{ex, peak} + Q_p) \times 1.05$
Q _{proj, avg}	Projected Avg. Flow	$= Q_{proj, peak} \div P.F.$

Projected Flow Calculations		
Variable	Value	Unit
Q _{proj, peak}	43,357	gpd
Q _{proj, avg}	12,388	gpd

Section F: Compare Results with Applicant's Submission

Variable	PWSA Calcs, gpd	Applic. Calcs, gpd	Difference, gpd	Difference, %
Q _{d, peak}	133,506,529	133,520,000	-13,471	0%
Q _{d, avg}	38,144,722	38,148,571	-3,849	0%
Q _{ex, peak}	29,293	29,295	-2	0%
Q _{ex, avg}	8,369	8,370	-1	0%
Q _{proj, peak}	43,357	43,360	-3	0%
Q _{proj, avg}	12,388	12,389	-1	0%

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

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Joseph Sparbanie, P.E.

Agent Signature _____

Date 1/16/20

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. YES NO 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 Joseph Sparbanie, P.E.

Agent Signature 

Date 1/16/20

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

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

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

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

L. PERMEABILITY TESTING (See Section L of instructions)

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

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

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

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

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

O. SEWAGE MANAGEMENT (See Section O of instructions)

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

Yes No

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

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

2. Project Flows 12000 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.

MAUREEN S. GOLAN	<i>Maureen Golan</i>
Name (Print)	Signature
CIVIL EIT	DECEMBER 17, 2019
Title	Date
2000 GEORGETOWNE DRIVE, SUITE 101 SEWICKLEY, PA 15143	724-444-1100
Address	Telephone Number

R. REVIEW FEE (See Section R of instructions)

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

- I request DEP calculate the review fee for my project and send me an invoice for the correct amount. I understand DEP's review of my project will not begin until DEP receives the correct review fee from me for the project.
- I have calculated the review fee for my project using the formula found below and the review fee guidance in the instructions. I have attached a check or money order in the amount of \$1500 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.

$$\#30 \quad \text{Lots (or EDUs) X } \$50.00 = \$ 1500$$

The fee is based upon:

- The number of lots created or number of EDUs whichever is higher.
 - For community sewer system projects, one EDU is equal to a sewage flow of 400 gallons per day.
2. For a surface or subsurface discharge system, use the appropriate one of these formulae.

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

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

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

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

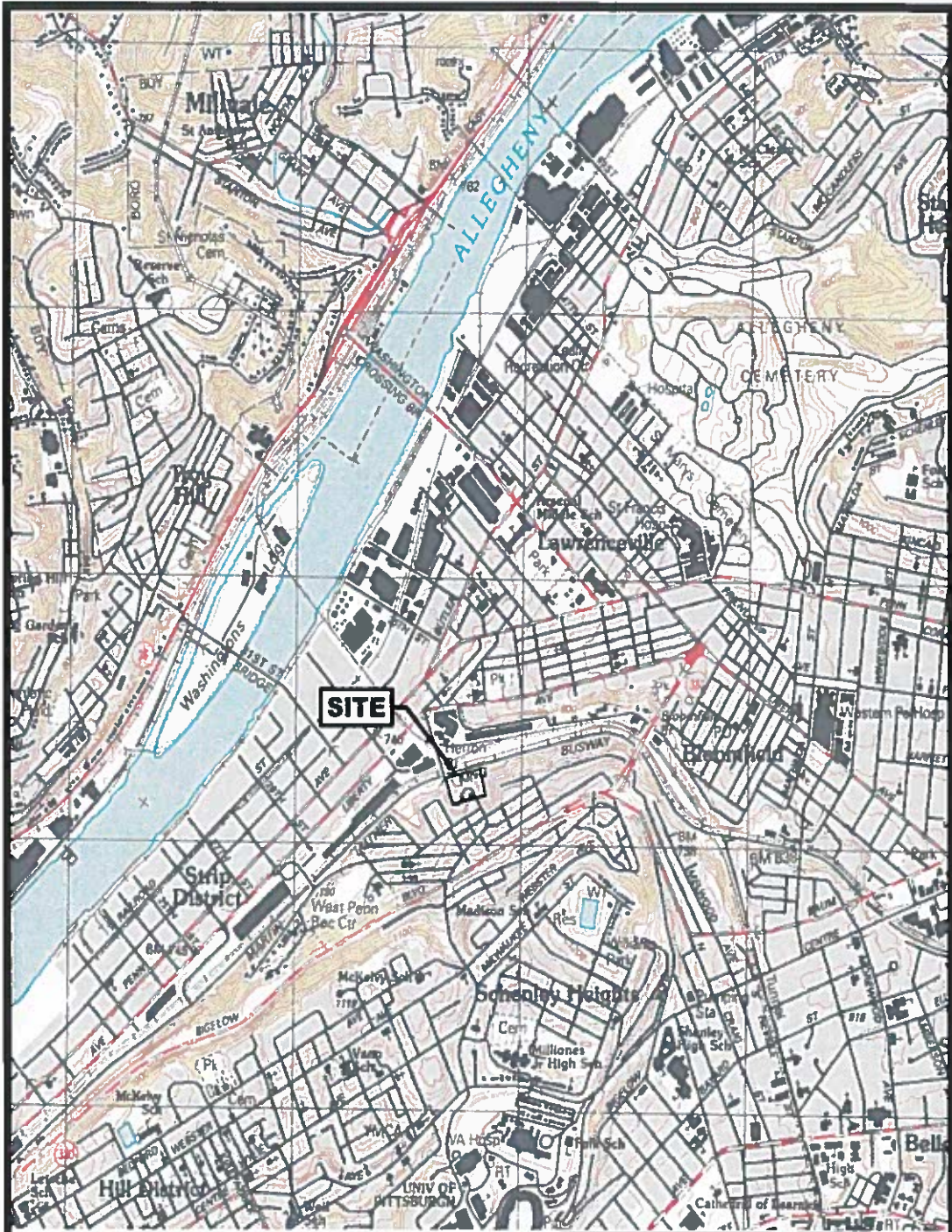
to a maximum of \$ 1,500 per submittal (non-municipal) or \$ 500 per submittal (municipal)

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:

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

SITE LOCATION MAP



SITE LOCATION MAP

HERRON AVENUE TOWNHOMES

CITY OF PITTSBURGH, ALLEGHENY COUNTY, PENNSYLVANIA

TAKEN FROM 7.5 MINUTE USGS TOPOGRAPHY MAP - PITTSBURGH EAST QUADRANGLE



Waterfront Corporate Park III, Suite 101 P: 724-444-1100
 2000 Georgiatowne Drive F: 724-444-1104
 Sewickley, PA 15143 www.pve-llc.com

Civil Engineering | Land Development | Planning
 Landscape Architecture | Structures | Environmental

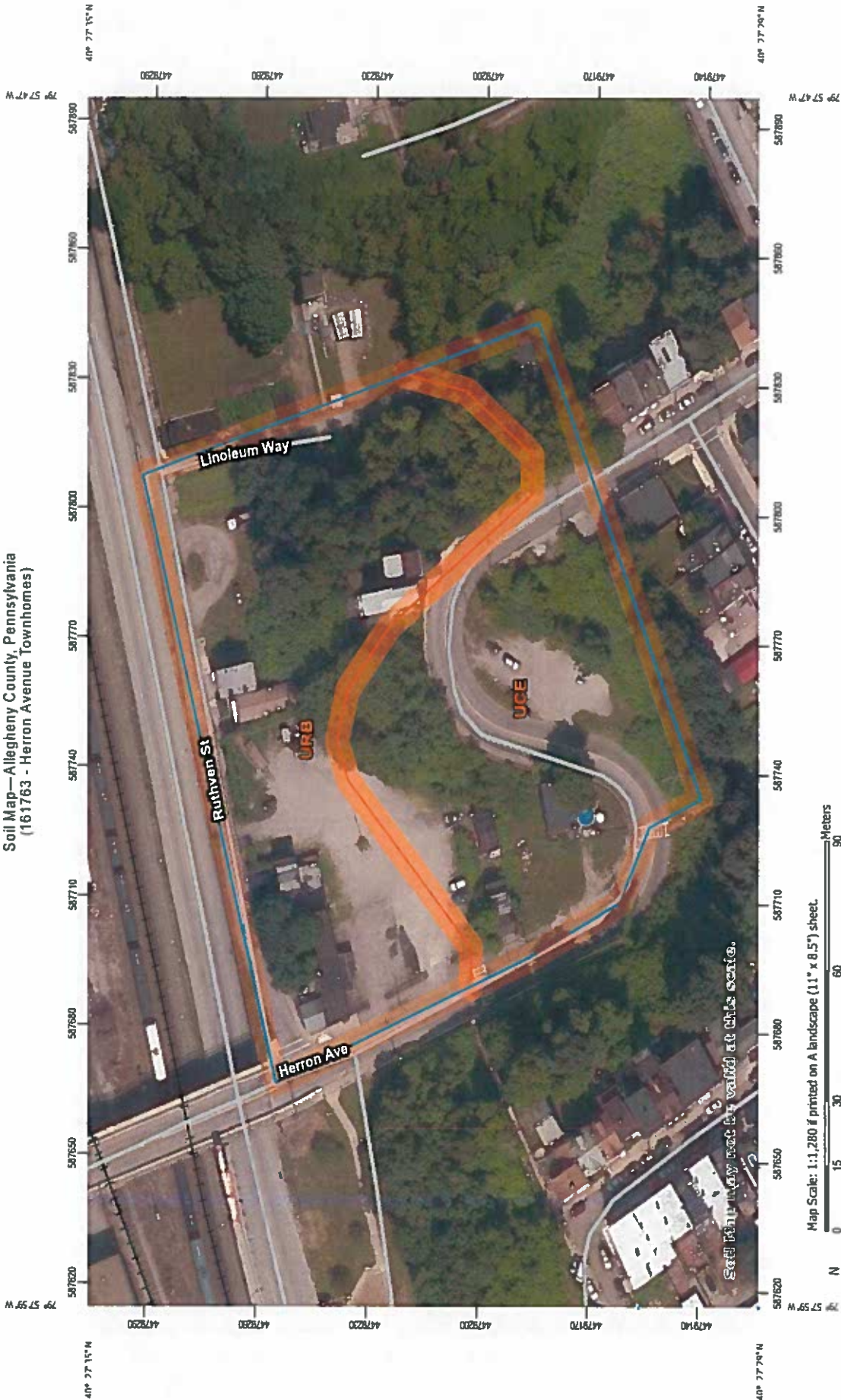


DATE:	10.11.2019
SCALE:	1"=2000'
PROJECT NUMBER:	161763

FIGURE 1

SOILS MAP

Soil Map—Allegheny County, Pennsylvania
(161763 - Herron Avenue Townhomes)



Soil data may not be valid at this scale.

Map Scale: 1:1,280 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84



Web Soil Survey
National Cooperative Soil Survey

MAP LEGEND

- Area of Interest (AOI)
 - Area of Interest (AOI)
- Soils
 - Soil Map Unit Polygons
 - Soil Map Unit Lines
 - Soil Map Unit Points
- Special Point Features
 - Blowout
 - Borrow Pit
 - Clay Spot
 - Closed Depression
 - Gravel Pit
 - Gravelly Spot
 - Landfill
 - Lava Flow
 - Marsh or swamp
 - Mine or Quarry
 - Miscellaneous Water
 - Perennial Water
 - Rock Outcrop
 - Saline Spot
 - Sandy Spot
 - Severely Eroded Spot
 - Sinkhole
 - Slide or Slip
 - Sodic Spot
- Water Features
 - Streams and Canals
- Transportation
 - Rails
 - Interstate Highways
 - US Routes
 - Major Roads
 - Local Roads
- Background
 - Aerial Photography
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.
 Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Allegheny County, Pennsylvania
 Survey Area Data: Version 15, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 27, 2011—Aug 28, 2014

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
UCE	Urban land-Culleoka complex, steep	1.9	46.0%
URB	Urban land-Rainsboro complex, gently sloping	2.2	54.0%
Totals for Area of Interest		4.1	100.0%

**WATER AVAILABILITY LETTER
FROM PITTSBURGH WATER AND SEWER
AUTHORITY (PWSA)**



October 4, 2019

Maureen Golan
2000 Georgetowne Drive, Suite 101
Sewickley, PA 15143

RE: Water and Sewer Availability
Herron Avenue @ Ruthven St, Linoleum Way

Dear Ms. Golan:

In response to your inquiry on 10/2/2019 concerning water and sewer availability for the area referenced above, please be advised that both water and sewers are available near the site, and water and sewer service will be provided in accordance with the policies and procedures of the Pittsburgh Water and Sewer Authority.

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

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

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

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

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

Sincerely,

A handwritten signature in blue ink that reads "Wendy M. Dean". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Wendy M. Dean
Engineering Tech II

cc: PWSA File



PITTSBURGH WATER AND SEWER AUTHORITY

WATER AND SEWER AVAILABILITY LETTER REQUEST FORM

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

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

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

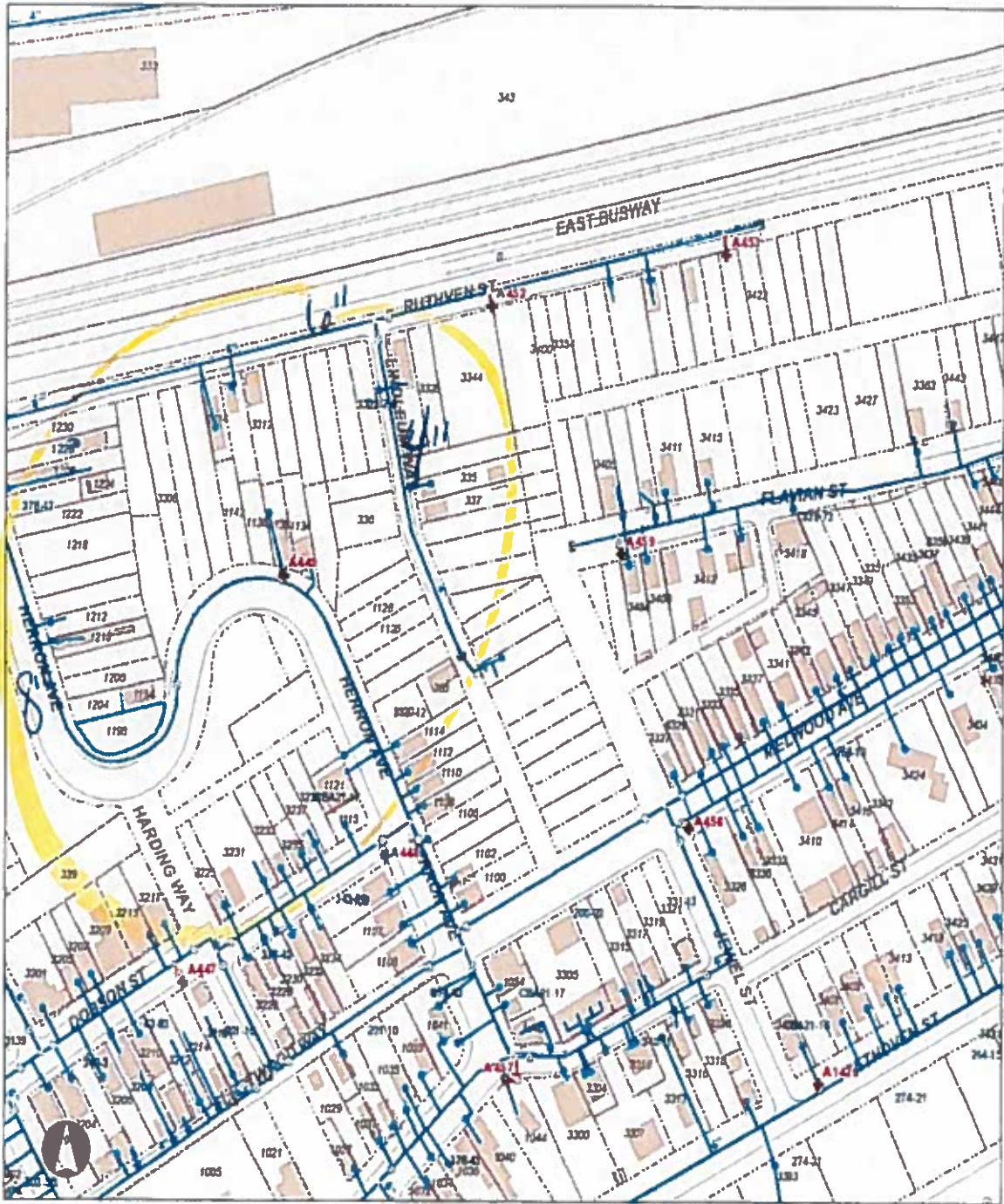
Information to be submitted by the Applicant:
Property Owner Name: Laurel Communities
Address of Property: Herron Avenue, between Ruthven Street and Linoleum Way
Proposed Use of Site: Approximately 30 townhomes and associated infrastructure.
Closest street intersection to the property: Ruthven St & Herron Ave on west; Linoleum Way & Ruthven St on east
Requestor Name: Maureen Golan
Date of Request: October 2, 2019
Requestor Address: 2000 Georgetown Drive, Suite 101, Sewickley, PA 15143
Requestor Phone Number: (724) 444-1100

Please submit the completed form to: Pittsburgh Water and Sewer Authority
1200 Penn Avenue
Pittsburgh, PA 15222
Attn: Permits
(permitinfo@pgh2o.com)

PWSA Use Only:
PWSA Water Service Available: [X] Yes [] No
Water Size / Location: 4" Linoleum Way, 8" Herron Ave, 6" Ruthven St.
PWSA Sewer Service Available: [X] Yes [] No
Sewer Size / Location: 15" Ruthven St, 36" Herron Ave, 15" Linoleum Way
Applicant must contact separate agency for water and/or sewer service: [] Yes [X] No
Name of separate agency:
PWSA Approval Authority:
Signature and Date: [Signature] 10-4-19
Name (printed): Wendy M. Dean
Title: Engineering Tech II

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

Herron Ave @ Ruthven St, Linoleum Way - Water



Legend

- | | | |
|----------------------------|----------------------|----------------------------|
| ○ Meter | ○ Water Manhole | ■ Detail |
| ⊞ Pump | — Rising Main | ◆ End Cap |
| ⊕ Hydrant | — Supply Main | ■ Sewer Pump Station |
| ⊕ Hydrant - Out of Service | — Transmission Main | — Combined Sewer |
| ⊙ System Valve | — Distribution Main | — Sanitary Sewer |
| ⊙ Dividing Pressure Valve | — Hydrant Branch | — Storm Sewer |
| ⊙ Cap | — Private Main | — Regulated Combined Sewer |
| ⊙ Tee or Cross | — Water Service Line | — Overflow Sewer |
| ⊙ Reducer | ⊙ Manhole | — Interceptor |
| ⊙ Coupling | ⊙ Junction | — Sewer Force Main |
| ⊙ Wash Out | ⊙ Inlet | — Private Sewer |
| | ⊙ Private Inlet | — Undefined Sewer |



Noted the City of Pittsburgh nor the PWSA can represent 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. CDP and PWSA assume no responsibility for any claim, demand or representation made by their agents or employees on or off duty and/or during or representations are expressly not both in a duty of their disclosure, and each department expressly provides that responsibility therefor is assumed by the City or the PWSA.

Date: 10/3/2018

Herron Ave @ Ruthven St, Linoleum Way - Sewer



Legend			
○	Water Manhole	□	Outfall
●	Meter	+	End Cap
⊞	Pump	■	Sewer Pump Station
⊕	Hydrant	—	Combined Sewer
⊕	Hydrant - Out of Service	—	Sanitary Sewer
⊞	System Valve	—	Storm Sewer
⊞	Dividing Pressure Valve	—	Regulated Combined Sewer
⊞	Cap	—	Overflow Sewer
—	Tee or Cross	●	Manhole
—	Reducer	+	Junction
—	Coupling	—	Inlet
⊞	Wash Out	—	Private Inlet
		—	Interceptor
		—	Sewer Force Main
		—	Private Sewer
		—	Undefined Sewer
		—	Rising Main
		—	Supply Main
		—	Transmission Main
		—	Distribution Main
		—	Hydrant Branch
		—	Private Main
		—	Water Service Line



Not for the City of Pittsburgh nor the PWSA guarantee the accuracy of any of the information hereby created or fields, including but not limited to information concerning the location and position of underground structures, and neither assumes any responsibility for any inaccuracies or interpretations made on the basis of such information. CIP and PWSA assume no responsibility for any units remaining or representations made by their agents or employees and any such units remaining or representations are expressly and solely in a duly authorized written document, and such document expressly provides that responsibility therefor is assumed by the City or the PWSA.



November 26, 2019

Ms. Maureen Golan
PVE, LLC
2000 Georgetowne Drive, Suite 101
Sewickley, PA 15143

Subject: Water and Sewer (W/S) Use Approval Letter
Herron Avenue Townhomes

Dear Ms. Golan:


Pursuant to your request, we have reviewed the Water and Sewer Use Application for the Herron Avenue Townhomes (Project) located at Herron Avenue between Ruthven Street and Lingleum Way. We agree that the Project will result in the following flows:

Total Water Consumption, gpd:	<u>12,000</u>
Total Sanitary Flows, gpd:	<u>12,000</u>
Total Storm Flows, cfs:	<u>7.97</u>

Please be advised that this W/S Use Approval Letter is intended for PWSA purposes only. The Pennsylvania Department of Environmental Protection (PaDEP) is the governing body that makes the final determination on whether sewage facilities planning is required. The PWSA shall send a separate letter to the PaDEP for final review/approval. In the event that sewage facilities planning are required, we have enclosed for your use the location of the most limited capacity sewer.

Our review was based on information provided by your firm under the assumption that this information was accurate and complete. Should you have any questions, please do not hesitate to contact me directly at 412-255-8800 x5532 or RHerring@pgh2o.com.

Sincerely,



Robert Herring, P.E.
Engineering Consultant

Enclosures

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

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1200 Penn Avenue T 412.255.2423
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Emergencies:
412.255.2423

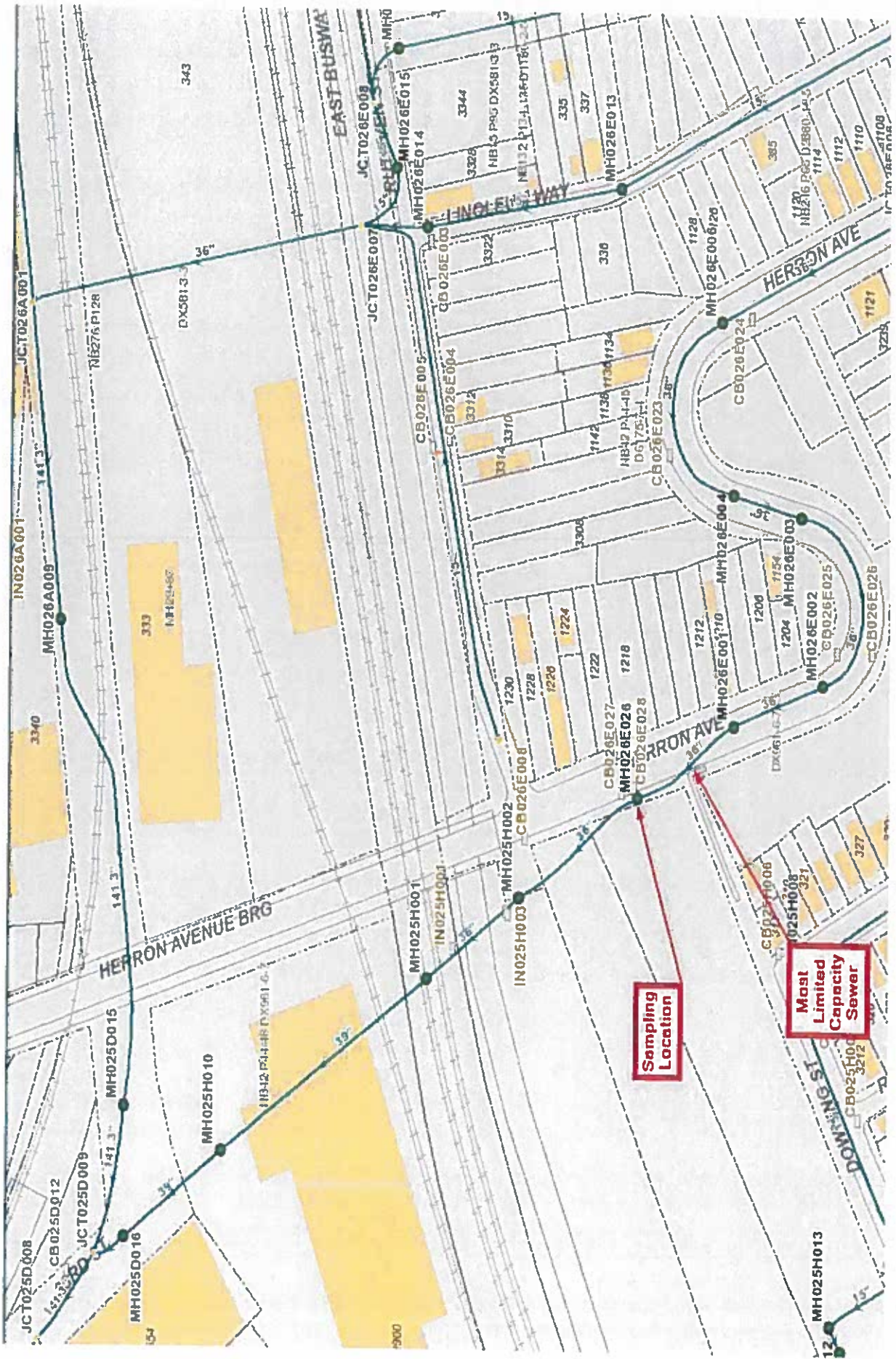
DEP Sewage Facilities Planning Module
 Chapter 94 Consistency Determination
 Hydraulically Limited Sewer Calculation Spreadsheet

LEGEND:

Output Data
Input Data
Questionable Data
Hydraulically Limited Sewer

PROJECT NAME:	Herron Avenue Townhomes
PROJECT LOCATION:	Herron Avenue, Pittsburgh, PA 15219
ALCOSAN INTERCEPTOR:	Allegheny
PWSA REVIEWER:	Robert Herring, P.E.
DATE:	November 25, 2019

Upstream MH	Downstream MH	Upstream Invert	Downstream Invert	Length, ft	Diam., In.	Material	n	Area, sf	Wetted P, ft	Slope	Flow, gpm
MH026E006	MH026E004	838.10	821.06	189.70	36	RCP	0.013	7.07	9.425	8.98%	129,547.622
MH026E004	MH026E003	821.06	815.28	66.70	36	RCP	0.013	7.07	9.425	8.67%	117,741.658
MH026E003	MH026E002	815.28	800.00	179.96	36	RCP	0.013	7.07	9.425	8.49%	125,951.111
MH026E002	MH026E001	800.00	790.72	90.64	36	RCP	0.013	7.07	9.425	10.24%	138,306.425
MH026E001	MH026E026	798.44	787.64	108.89	36	RCP	0.013	7.07	9.425	9.92%	136,021.664
MH026E026	MH025H002	787.29	773.00	139.56	36	RCP	0.013	7.07	9.425	10.24%	138,313.302
MH025H002	MH025H001	770.00	763.70	107.99	36	RCP	0.013	7.07	9.425	5.83%	104,401.520
MH025H001	MH025H010	763.70	749.70	239.18	39	RCP	0.013	8.30	10.210	5.85%	175,457.988
MH025H010	MH025D016	749.70	743.18	114.15	39	RCP	0.013	8.30	10.210	5.71%	127,883.086
MH025D016	JCT025D009	742.89	727.76	32.86	40	RCP	0.013	8.73	10.472	46.04%	388,448.971
JCT025D009	JCT025D008	725.76	724.68	87.33	141.3	RCP	0.013	108.90	36.992	1.24%	1,842,599.265
JCT025D008	MH025D004	724.68	722.91	225.28	141.3	RCP	0.013	108.90	36.992	0.79%	1,458,676.211
MH025D004	MH025D005	722.91	720.32	350.59	141.3	RCP	0.013	108.90	36.992	0.74%	1,414,134.036
MH025D005	JCT025C003	720.32	715.29	678.50	141.3	RCP	0.013	108.90	36.992	0.71%	1,426,624.942
JCT025C003	MH025C007	715.29	714.08	162.08	141.3	RCP	0.013	108.90	36.992	0.75%	1,434,623.165
MH025C007	ADCD48RA22	714.08	712.10	80.40	141.3	RCP	0.013	108.90	36.992	2.46%	2,600,191.395



Project No. _____

(PWSA USE ONLY)

**THE PITTSBURGH WATER AND SEWER AUTHORITY
ENGINEERING AND CONSTRUCTION DIVISION**

WATER AND SEWER USE APPLICATION FORM

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

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

A. GENERAL INFORMATION

1. Name of Land Development Project HERRON AVENUE TOWNHOMES
 Location of land development project. *Use landmark or address, if available (e.g., north side of Liberty Ave 75 ft. east of intersection of Liberty Ave and 6th St.)* HERRON AVENUE, BETWEEN RUTHVEN STREET AND LINOLEUM WAY
2. Nature of Development. Check appropriate box and provide total flows.
- | | Total Water Consumption (gpd) | Total Sanitary Flows (gpd) | Total Storm Flows (cfs) |
|---|-------------------------------|----------------------------|-------------------------|
| <input checked="" type="checkbox"/> Residential | <u>12,000</u> | <u>12,000</u> | <u>7.97</u> |
| <input type="checkbox"/> Commercial | _____ | _____ | _____ |
3. Acreage of development 2.4 acres
4. Allegheny County Block & Lot Nos. 26-E-46, 170, 171, 173, 174, 175, 178, 179, 180, 181, 182, 185, 186A, 187, 188, 189, 190, 191, 192, 194, 195, 196, 197, 198, 199, 200-0-1, 200-1, 200-A, 206, 208, 209, 210, 211, 212
5. Ownership of Land Development
- | Name | Address |
|---------------------------|-----------------------------|
| <u>LAUREL COMMUNITIES</u> | <u>5813 FORBES AVENUE</u> |
| | <u>PITTSBURGH, PA 15217</u> |
6. Applicant (Subdivider, Developer, or Responsible Project Agent)
- | | |
|--|----------------------------------|
| Name <u>MAUREEN GOLAN (RESP. PROJECT AGENT)</u> | Firm/Agency Name <u>PVE, LLC</u> |
| Address <u>2000 GEORGETOWNE DRIVE, SUITE 101, SEWICRLE, PA 15143</u> | |
| Telephone <u>724-444-1100</u> | Email <u>MGOLAN@PVE-LLC.COM</u> |

B. WASTEWATER AND STORMWATER FACILITIES

Provide information on collection and treatment facilities.

1. **COLLECTION SYSTEM**
- Number of proposed connections (sanitary and/or storm) 30
 - Name of existing collection or conveyance system PWSA, A-22 SEWERSHED
 - Name of interceptor ALLEGHENY
 - Name of treatment facility ALCOSAN
2. **SITE PLAN (24" x 36" maximum size accepted)**
 The following information is to be submitted on a site plan of the proposed subdivision.
- Existing building.
 - Lot lines and lot sizes.
 - Remainder of tract.
 - Orientation to North.
 - Show proposed sewer line to the point of connection to existing collection system. Including all components (collection & conveyance lines, pumps, etc.)
 - Existing and proposed right(s)-of-way.
 - Existing and proposed street, roadway, etc.
 - Water bodies and wetland areas.

Maureen S Golan

Applicant Signature

October 15, 2019

Date

Project No. _____

(PWSA USE ONLY)

C. FALSE SWEARING STATEMENT (To be completed by individual completing the form)

I verify that the statements made in the 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.

Herron Avenue Townhomes

Name of Land Development Project (Same as on Page 1, Section A.1)

Maureen S. Golan

Civil EIT

Name (Print)

Title

Maureen S Golan

2000 Georgetowne Drive, Suite 101, Sewickley PA 15143

Signature

Address

724-444-1100

October 15, 2019

Telephone Number

Date

D. CHAPTER 94 CONSISTENCY (See PA Department of Environmental Protection Current Regulations)

The following certification is to be completed by the Pittsburgh Water and Sewer Authority agent and agency responsible for completing the (DEP) Chapter 94 report for the collection, conveyance, and treatment facilities.

The PWSA shall make the final determination on the need for planning.
 I/we certify that the sewerage facilities proposed to serve the new land development described in this Planning Module are in compliance with the provisions of DEP Chapter 94, Municipal Wasteload Management and have adequate capacity to serve the sewage flows to be generated by this development, without creation of an overload or projected overload.

Collection System

Conveyance and Treatment

[Signature]
 Signature of Responsible Agency
 Pittsburgh Water and Sewer Authority

11/26/2019
 Date

Signature of Responsible Agent
 ALCOSAN Date

E. PLANNING AGENCY REVIEW

City of Pittsburgh Municipal Planning Agency
 This development/project has been reviewed and:

- is consistent
- is not consistent (objections attached)

with programs of planning for the area of the proposed development administered by this planning agency under the municipalities Planning Code (53 P.S. § 10101-11202).

City of Pittsburgh
 Department of City Planning

Zoning Administrator

Date

Stormwater Management

This development/project has been reviewed and:

- is consistent
- is not consistent (objections attached)

With programs of planning for the area of the proposed development administered by this planning agency under the current City of Pittsburgh storm water management regulations.

City of Pittsburgh
 Department of City Planning

Environmental Planner

Date

County or Joint County Health Department

This development/project has been reviewed and:

- approval is recommended
- approval is not recommended (objections attached)

Allegheny County Health
 Department

Signature of Responsible Agent

Date

SECTION F
PROJECT NARRATIVE

Section F – Project Narrative

HERRON AVENUE TOWNHOMES

Proposed Method of Sewage Service:

Laurel Communities is proposing to construct 30 new townhomes in the Polish Hill Neighborhood of the 6th Ward of the City of Pittsburgh, Allegheny County, Pennsylvania (see Figure 1). Specifically, the project is located at the switch-back on Herron Avenue, between the M.L.K. Jr. Busway/Ruthven Street and Linoleum Way, and will require the consolidation and subsequent subdivision of 34 existing parcels along Herron Avenue. Eight of the townhomes will front Ruthven Street, 12 will front Herron Avenue, 4 will front Linoleum Way and the remaining 6 will front the proposed alley (private drive).

Construction is scheduled to begin in Spring/Summer 2020 and the total project boundary is 2.4 acres, with less than 50% of each new lot to be disturbed due to the Hillside District zoning requirements and to ensure proper geotechnical measures.

The townhomes are all single-family units. There is no amenity, reception, pool, etc. space for the proposed townhome community, beyond a shared garden and walkway. Although there are about 7 existing structures that will be demolished on the project site, due to the consolidation of the 34 lots and then subdivision into 30 lots, the current water and sewer flows for the project are considered 0 gpd. In accordance with PA Code, Title 25, 73.17.b. each townhome will use an estimated 400 gpd. Therefore, the proposed project will generate approximately 12,000 gallons per day into the system, equivalent to 30 EDUs and is to be treated by the ALCOSAN treatment facility. This estimate was passed upon the PADEP standard for average daily flows for Equivalent Domestic Units of 1 EDU = 400 gallons per day for the proposed renovation.

The proposed Herron Avenue Townhomes will be serviced by the existing gravity operated collection system which will be owned and operated by the Pittsburgh Water and Sewer Authority to an existing ALCOSAN interceptor. From this point sewage is then conveyed to the ALCOSAN treatment plant.

Justification of Anticipated Flows:

Herron Avenue Townhomes				
Use	No. Units	PWSA Flow Category	GPD/Unit	Total GPD
Townhouse	30	Residential Single Family	400	12,000
Total				12,000

WETLAND PROTECTION

Section G.4. – Wetland Protection

HERRON AVENUE TOWNHOMES

No wetlands are known to exist in the area to be developed for this project

THREATENED SPECIES (PNDI)

1. PROJECT INFORMATION

Project Name: Herron Avenue, Polish Hill

Date of Review: 10/14/2019 10:02:20 AM

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

Project Area: 3.13 acres

County(s): Allegheny

Township/Municipality(s): PITTSBURGH

ZIP Code: 15219

Quadrangle Name(s): PITTSBURGH EAST

Watersheds HUC 8: Lower Allegheny

Watersheds HUC 12: Allegheny River-Ohio River

Decimal Degrees: 40.459019, -79.965014

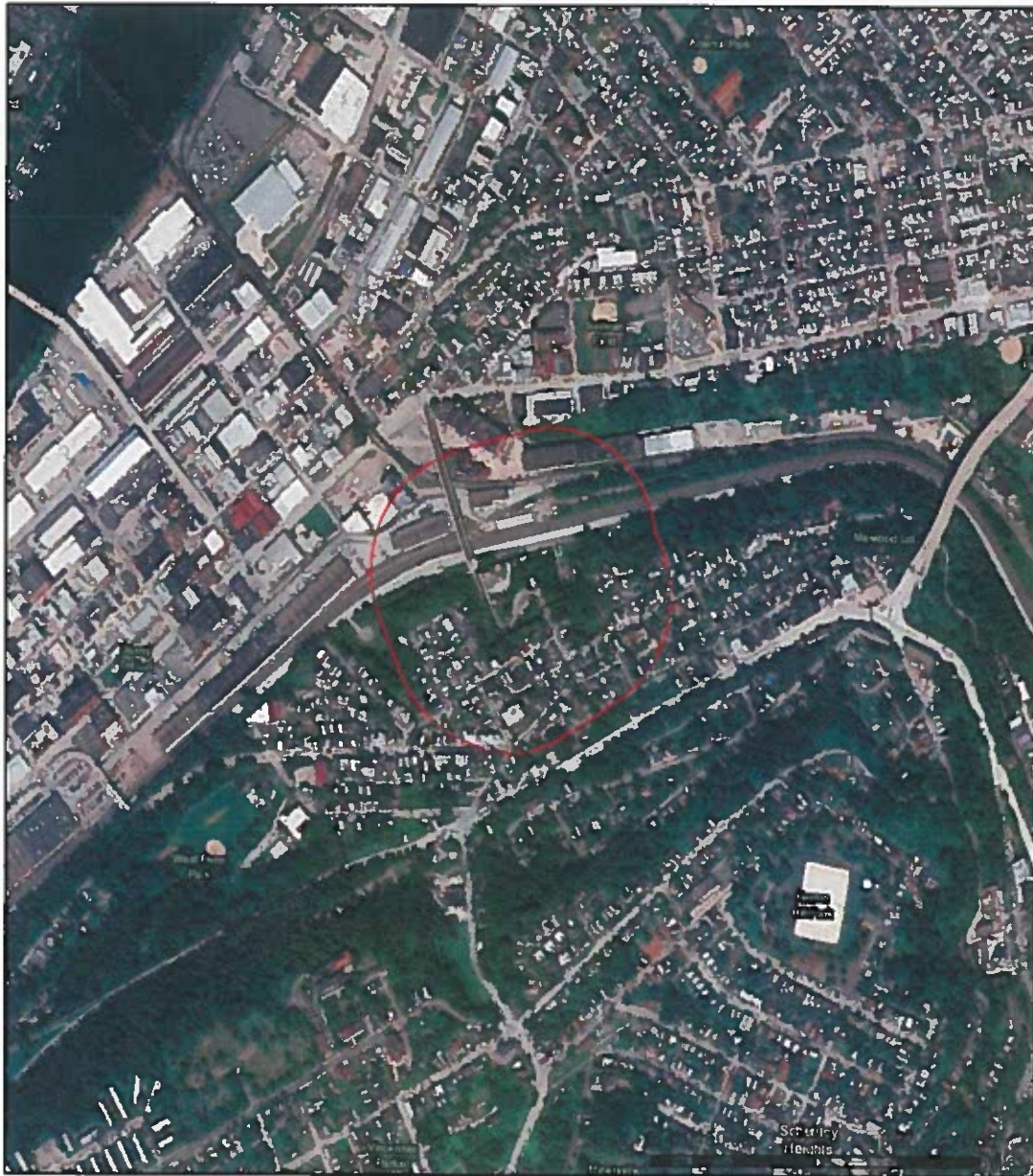
Degrees Minutes Seconds: 40° 27' 32.4700" N, 79° 57' 54.492" W

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.

Herron Avenue, Polish Hill

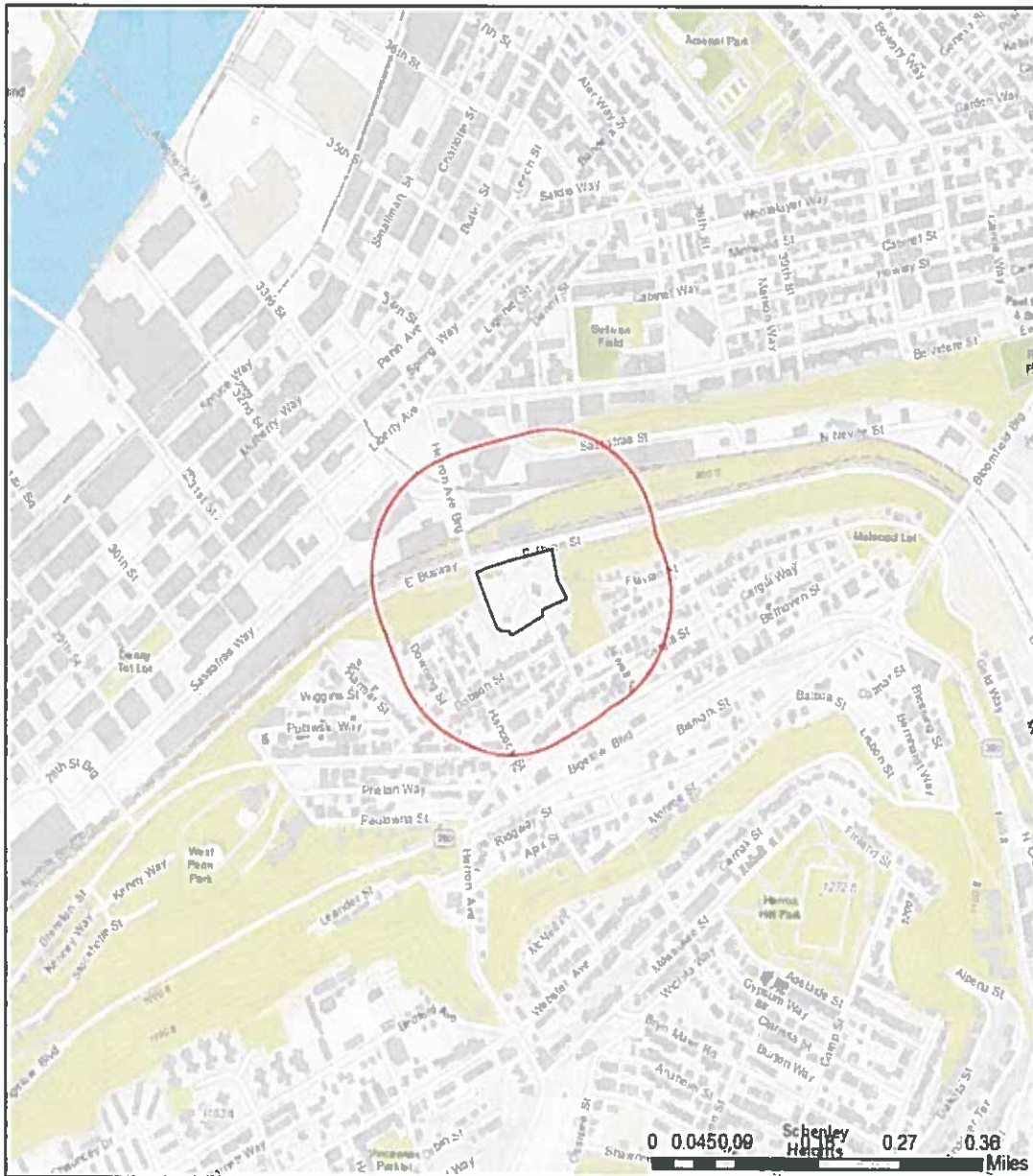


- Project Boundary
- Buffered Project Boundary



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

Herron Avenue, Polish Hill



- Project Boundary
- Buffered Project Boundary

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



RESPONSE TO QUESTION(S) ASKED

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

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

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

Your answer is: No

3. AGENCY COMMENTS

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

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

PA Game Commission

RESPONSE:

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

PA Department of Conservation and Natural Resources

RESPONSE:

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

PA Fish and Boat Commission

RESPONSE:

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

U.S. Fish and Wildlife Service

RESPONSE:

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

4. DEP INFORMATION

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



5. ADDITIONAL INFORMATION

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

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

6. AGENCY CONTACT INFORMATION

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

U.S. Fish and Wildlife Service
Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd, Suite 101
State College, PA 16801
NO Faxes Please

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

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

7. PROJECT CONTACT INFORMATION

Name: MAUREEN GOLAN
Company/Business Name: PVE, LLC
Address: 2000 GEORGETOWNE DRIVE, SUITE 101
City, State, Zip: SEWICKLEY, PA, 15143
Phone: (724) 444-1100 Fax: (724) 444-1104
Email: mgolan@pve-llc.com

8. CERTIFICATION

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

Maureen J Golan
applicant/project proponent signature

October 16, 2019
date

SECTION H
ALTERNATIVE ANALYSIS

Section H – Alternative Sewage Facilities Analysis

HERRON AVENUE TOWNHOMES

Proposed Method of Sewage Disposal

The proposed townhomes will be serviced by a gravity operated collection system which will be owned and operated by Pittsburgh Water and Sewer Authority. The flows will be conveyed into an existing ALCOSAN interceptor and into the ALCOSAN sewage treatment plant.

Alternative Methods Considered

An alternative method of sewage disposal includes an individual septic system. Various factors such as failure rates of septic systems, desirability of developed lot, and size of the developed lot are all deterrents to installing a septic system.

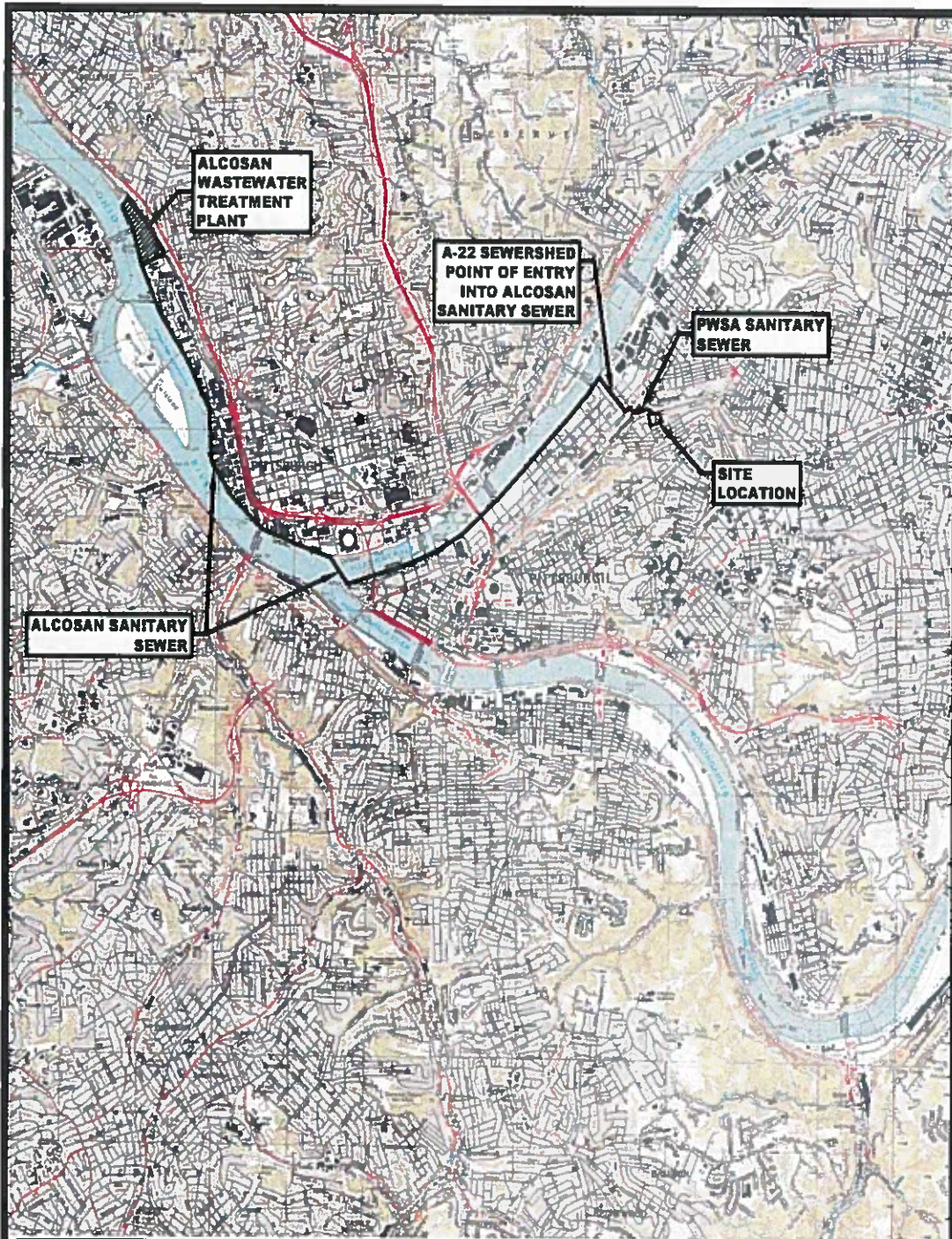
Alternative Alignments Considered

In keeping with the proposed method of sewage disposal, which is to construct a gravity sewer, different alternatives are available with respect to connection point to the existing system. The proposed alignment which will convey sewage from the proposed site to the existing ALCOSAN sewage system was determined to be the optimal layout based on distance, slope, and elevation.

Conclusion

The proposed method of providing sewer service to the proposed townhomes is considered ultimate. The fact that an existing sewage interceptor and sewage treatment plant is nearby greatly reduces the justification for thoroughly considering various alternative methods.

SEWAGE FLOW PATH MAP



SEWAGE FLOW PATH MAP
 HERRON AVENUE TOWNHOMES
 CITY OF PITTSBURGH, ALLEGHENY COUNTY, PENNSYLVANIA
 TAKEN FROM 7.5 MINUTE USGS TOPOGRAPHY MAP - PITTSBURGH EAST QUADRANGLE



Waterfront Corporate Park III, Suite 101 P: 724-444-1100
 2000 Georgetowne Drive F: 724-444-1104
 Sewickley, PA 15143 www.pve-llc.com

Civil Engineering | Land Development | Planning
 Landscape Architecture | Structures | Environmental



DATE:	10.11.2019
SCALE:	1"=6000'
PROJECT NUMBER:	161763

FIGURE 3

SECTION J
FLOW TABLE FOOTNOTES AND
DRY WEATHER FLOW CALCULATION

**Section J – Chapter 94 Consistency Determination Footnotes
HERRON AVENUE TOWNHOMES**

- (1) Design/Permitted collection system average design capacity computed using static Manning's analysis based on existing 36" reinforced concrete combined sanitary sewer, with slope of 9.54%, Manning's n-value of 0.013 and full flow depth, divided by a peaking factor of 3.5 for combination sewers = 38,148,571 gpd.
- (2) Design/Permitted collection system peak design capacity computed using static Manning's analysis based on existing 36" reinforced concrete combined sanitary sewer, with slope of 9.54%, Manning's n-value of 0.013 and full flow depth = 133,520,000 gpd.
- (3) Present collection system average flow computed using static Manning's analysis based on existing 36" reinforced concrete combined sanitary sewer, with slope of 9.54%, manning's n-value of 0.013 and measured flow depth of 0.24 inches = 8,370 gpd.
- (4) Present collection system peak flow computed using the present average flows computed in Footnote 3, multiplied by a peaking factor of 3.5 for combination sewers = 29,295 gpd.
- (5) Projected collection system average flow computed using the projected collection system peak flows computed in Footnote 6, divided by 3.5 = 12,389 gpd.
- (6) Projected collection system peak flow computed using the present peak flows computed in Footnote 4 plus project flows of 12,000 gpd, see calculations in the project narrative section F of Component 3, multiplied by a 5% growth factor = 43,360 gpd.

Note: An overview of the Manning's equation calculations reference above are provided on the subsequent page.



Dry Weather Flow and Design Capacity Calculations
HERRON AVENUE TOWNHOMES

Given: 36" Reinforced Concrete Combination Sewer at a slope of 9.54% (S), and Manning's N Value = 0.013.

*Slope calculated from Field Survey conducted by PVE, November 1, 2019 showing an invert at MH026E001 of 798.28 and MH026E026 of 787.25, with a pipe length of 115.6 feet.

*Dry weather flow measured December 13, 2019 by PVE at manhole MH026E026 (39 degrees and overcast).

Dry Weather Flow Calculation:

Flow Depth measure in downstream manhole = 0.24 inches or 0.02 feet (h).

$$\text{Area of Flow in Pipe} = \frac{r^2(\theta - \sin \theta)}{2} \text{ where, } \theta = 2 \cos^{-1} \left(\frac{r-h}{r} \right)$$

$$\theta = 2 \cos^{-1} \left(\frac{1.50-0.02}{1.50} \right) \quad \theta = 0.327 \text{ radians}$$

$$\text{therefore, Area of Flow in Pipe} = \frac{1.50^2(0.327 - \sin(0.327))}{2} \quad A = 0.00652 \text{ ft}^2$$

$$\text{Wetted Perimeter (P)} = r\theta, \text{ therefore } P = 1.50(0.327) = 0.491 \text{ ft}$$

$$\text{Hydraulic Radius (R}_h) = \frac{A}{P}, \text{ therefore } R_h = \frac{0.00652}{0.491} = 0.0133 \text{ ft}$$

$$Q = \frac{1.49}{n} (R_h)^{\frac{2}{3}} (S)^{\frac{1}{2}} A (0.64632), \text{ therefore}$$

$$Q = \frac{1.49}{0.013} (0.0133)^{\frac{2}{3}} (0.0954)^{\frac{1}{2}} (0.00652) (0.64632), \quad Q = 0.00837 \text{ mgd}$$

Design Capacity of Pipe Calculation:

Full Flow Capacity, Depth = 36 inches or 3.00 feet (h).

$$\text{Area of Flow in Pipe} = \frac{\pi D^2}{4}, \text{ therefore } A = \frac{\pi(3.00)^2}{4} \quad A = 7.069 \text{ ft}^2$$

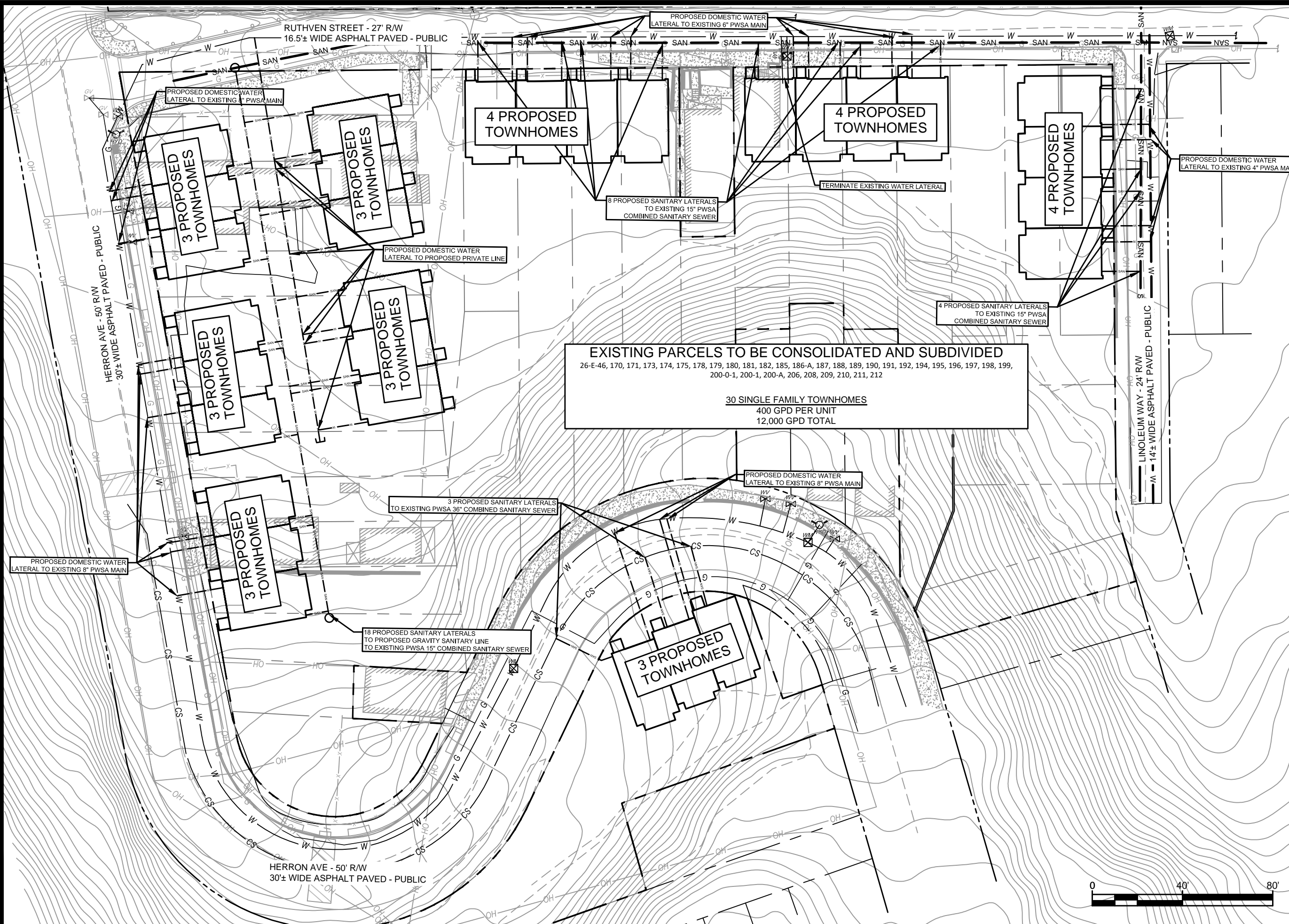
$$\text{Wetted Perimeter} = \pi D, \text{ therefore } P = \pi(3.00) = 9.425 \text{ ft}$$

$$\text{Hydraulic Radius (R}_h) = \frac{A}{P}, \text{ therefore } R_h = \frac{7.069}{9.425} = 0.750 \text{ ft}$$

$$Q = \frac{1.49}{n} (R_h)^{\frac{2}{3}} (S)^{\frac{1}{2}} A (0.64632), \text{ therefore}$$

$$Q = \frac{1.49}{0.013} (0.750)^{\frac{2}{3}} (0.0954)^{\frac{1}{2}} (7.069) (0.64632), \quad Q = 133.52 \text{ mgd}$$

**PLOT PLANS FOR
SEWAGE FACILITY PLANNING
PURPOSES**



EXISTING PARCELS TO BE CONSOLIDATED AND SUBDIVIDED
 26-E-46, 170, 171, 173, 174, 175, 178, 179, 180, 181, 182, 185, 186-A, 187, 188, 189, 190, 191, 192, 194, 195, 196, 197, 198, 199, 200-0-1, 200-1, 200-A, 206, 208, 209, 210, 211, 212

30 SINGLE FAMILY TOWNHOMES
 400 GPD PER UNIT
 12,000 GPD TOTAL



Know what's below.
 Call before you dig.

SEWAGE FACILITIES PLANNING MODULE PLOT PLAN

HERRON AVENUE TOWNHOMES
 Prepared for Laurel Communities
 City of Pittsburgh, Allegheny County, Pennsylvania

This plan has been prepared solely for the benefit of the person(s) named above and for the project noted on this drawing. The use of this plan by any third party, or for any other purpose other than specified, is prohibited without written consent from PVE-LLC.

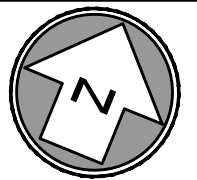
PLAN REVISIONS	
DATE	DESCRIPTION

Waterfront Corporate Park III, Suite 101
 2000 Georgetowne Drive
 Sewickley, PA 15143

P: 724-444-1100
 F: 724-444-1104
 www.pve-llc.com



Civil Engineering | Land Development | Planning
 Landscape Architecture | Structures | Environmental



DATE:	10-14-2019
SCALE:	1"=40'
PROJECT NUMBER:	161763

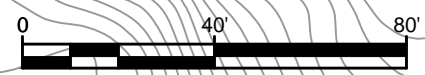
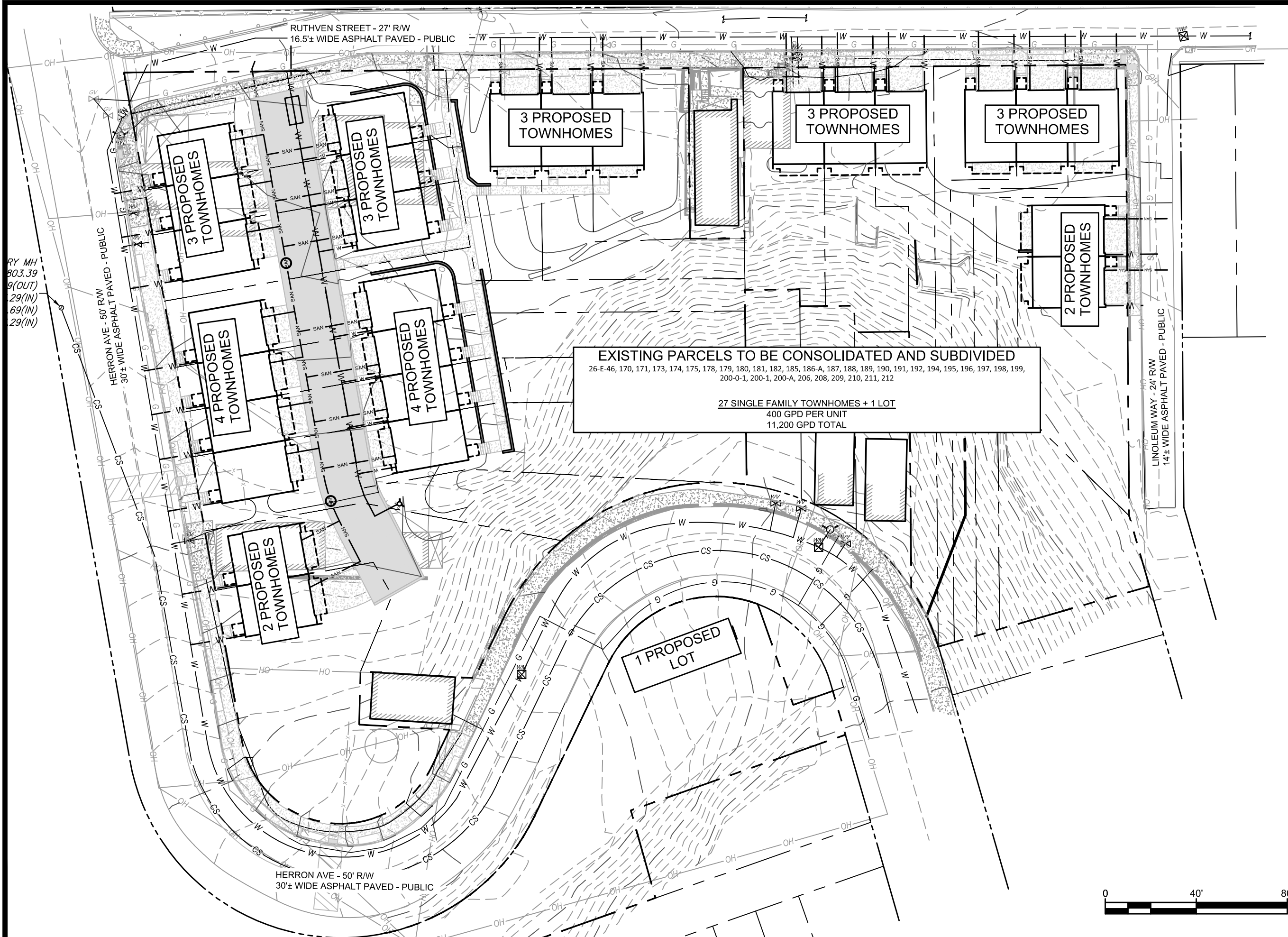


FIGURE 2



RY MH
803.39
9(OUT)
29(IN)
69(IN)
29(IN)

EXISTING PARCELS TO BE CONSOLIDATED AND SUBDIVIDED
 26-E-46, 170, 171, 173, 174, 175, 178, 179, 180, 181, 182, 185, 186-A, 187, 188, 189, 190, 191, 192, 194, 195, 196, 197, 198, 199,
 200-0-1, 200-1, 200-A, 206, 208, 209, 210, 211, 212

27 SINGLE FAMILY TOWNHOMES + 1 LOT
 400 GPD PER UNIT
 11,200 GPD TOTAL



Know what's below.
Call before you dig.

SEWAGE FACILITIES PLANNING MODULE PLOT PLAN

HERRON AVENUE TOWNHOMES
 Prepared for Laurel Communities
 City of Pittsburgh, Allegheny County, Pennsylvania

This plan has been prepared solely for the benefit of the person(s) named above and for the project noted on this drawing. The use of this plan by any third party, or for any other purpose other than specified, is prohibited without written consent from PVE-LLC.

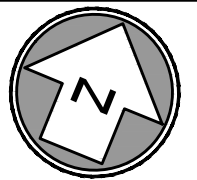
PLAN REVISIONS	
DATE	DESCRIPTION

Waterfront Corporate Park III, Suite 101
 2000 Georgetown Drive
 Sewickley, PA 15143

P: 724-444-1100
 F: 724-444-1104
 www.pve-llc.com



Civil Engineering | Land Development | Planning
 Landscape Architecture | Structures | Environmental



DATE:	07-21-2020
SCALE:	1"=40'
PROJECT NUMBER:	161763

FIGURE 2

COMPONENT 4A
MUNICIPAL PLANNING AGENCY REVIEW



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DEP Code #: _____

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

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

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

Project Name
Herron Ave. Townhomes

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

1. Date plan received by municipal planning agency 2-5-20
2. Date review completed by agency 2-10-20

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

SECTION C. AGENCY REVIEW (continued)

Yes	No	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. Is this proposal consistent with the ordinance? If no, describe the inconsistencies _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. Is this plan consistent with the municipal Official Sewage Facilities Plan? If no, describe the inconsistencies _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	15. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	16. Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
<input type="checkbox"/>	<input type="checkbox"/>	If yes, is the proposed waiver consistent with applicable ordinances? If no, describe the inconsistencies _____
17. Name, title and signature of planning agency staff member completing this section:		
Name: <u>Martina Battistone</u>		
Title: <u>Senior Environmental Planner</u>		
Signature: <u><i>M. Battistone</i></u>		
Date: <u>2-10-20</u>		
Name of Municipal Planning Agency: <u>City of Pittsburgh Dept. City Planning</u>		
Address <u>200 Ross Street, 4th Floor Pittsburgh, PA 15219</u>		
Telephone Number: <u>(412) 255-2516</u>		

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.

COMPONENT 4C
COUNTY HEALTH DEPARTMENT REVIEW

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

Herron Avenue Townhomes

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

1. Date plan received by county or joint county health department February 3, 2020Agency name Allegheny County Health Department (ACHD)2. Date review completed by agency February 4, 2020

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

Yes No

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

If no, what are the inconsistencies? _____

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

If yes, describe _____

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

If yes, describe _____

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

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

Name: Freddie FieldsTitle: Environmental Health Engineer IIISignature: Date: February 4, 2020Name of County Health Department: ACHDAddress: 3901 Penn Avenue, Building #5, Pittsburgh, PA 15224-1318Telephone Number: 412-578-8046

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

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

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

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