



HAMPTON TECHNICAL ASSOCIATES, INC.

Engineering Land Surveyors

CORPORATE OFFICE

35 Wilson Street – Suite 201

Pittsburgh, PA 15223

Telephone #: (412) 781-9660

Fax #: (412) 781-5904

E-mail: thomasc@hampton-tech.net

Web Site: www.hampton-technical.com



SEWAGE FACILITIES PLANNING MODULE

Grandview Avenue Townhomes

Job # 12928

Prepared For

NESBY LLC

4605 Irvine Street

Pittsburgh, PA 15207

Location

City of Pittsburgh

Allegheny County - PA

Date Prepared

March 2020



Table of Contents

DESCRIPTION	PAGE
Transmittal Letter to PADEP	
Resolution for Plan Revision for New Land Development	
Component 3: Sewage Collection and Treatment Facilities Module	1
A. Project Information	1
B. Client (Municipality Information)	1
C. Site Information	2
D. Project Consultant Information.....	2
E. Availability of Drinking Water Supply.....	2
F. Project Narrative	2
G. Proposed Wastewater Disposal Facilities	3
H. Alternative Sewage Facilities Analysis	5
I. Compliance with Water Quality Standards and Effluent Limitations	5
J. Chapter 94 Consistency Determination	6
K. Treatment and Disposal Options.....	7
L. Permeability Testing (Not Applicable).....	7
M. Preliminary Hydrogeologic Study (Not Applicable)	7
N. Detailed Hydrogeologic Study (Not Applicable)	8
O. Sewage Management	8
P. Public Notification Requirement (Not Applicable).....	9
Q. False Swearing Statement	10
R. Review Fee.....	10
2.0 Planning Review	
Component 4a: Municipal Planning Agency Review.....	2-1a
Component 4c: County or Joint Health Department Review (ACHD Letter).....	2-1b
3.0 References	3-1
EXHIBITS	
Figure 1 Site Location Map (Pittsburgh East, PA Quadrangle)	
DRAWINGS	
Drawings	SFP
Plans	

APPENDICES

- Appendix A: Availability of Water Supply
- Appendix B: Sewage Availability of Capacity & Allocation
- Appendix C: Project Narrative
- Appendix D: Proposed Wastewater Disposal Facilities
- Appendix E: Cultural Resource Notice
- Appendix F: Alternative Sewage Facilities Analysis
- Appendix G: PNHP Correspondence
- Appendix H: Public Notice

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
TRANSMITTAL LETTER TO PADEP



**TRANSMITTAL LETTER
 FOR SEWAGE FACILITIES PLANNING MODULE**

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

TO: Approving Agency (DEP or delegated local agency)

Date _____

Thomas E. Flanagan
 400 Waterfront Drive
 Pittsburgh, PA 15222

Dear Sir/Madam:

Attached please find a completed sewage facilities planning module prepared by Thomas Cenna _____

(Name)

Senior Project Manager _____ for Grandview Avenue Townhomes _____

(Title)

(Name)

a subdivision, commercial ,or industrial facility located in City of Pittsburgh _____

Allegheny _____ County.

(City, Borough, Township)

Check one

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

OR

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

Check Boxes

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

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

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

Municipal Secretary (print)

Signature

Date

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

Resolution No. _____

CITY OF PITTSBURGH

Introduced: Bill No:

Committee: Intergovernmental Affairs Committee Status:

Sponsored by:

Resolution adopting Plan Revision to the City of Pittsburgh's Official Sewage Facilities Plan for NESBY LLC, 4605 Irvine Street, Pittsburgh, PA 15207

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

WHEREAS, NESBY LLC has proposed the development of a parcel of land identified as the Grandview Avenue Townhomes, Pittsburgh, PA 15211, Allegheny County, at block and lot 1-N-272, 1-N-275, 1-N-277 and 1-N-279, in the 19th Ward of the City of Pittsburgh and described in the attached Sewage Facilities Planning Module (the "Planning Module") for land development and proposes that project be served by a sewer tap-in to the City of Pittsburgh sewage systems; and

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

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

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

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

Said Planning Module includes the proposed Grandview Avenue Townhomes, Pittsburgh, PA 15211, Allegheny County, at block and lot 1-N-272, 1-N-275, 1-N-277 and 1-N-279, in the 19th Ward of the City of Pittsburgh.

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

Effective Date: _____

Passed in Council: _____

Approved: _____

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

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
COMPONENT 3: SEWAGE COLLECTION AND TREATMENT FACILITIES MODULE



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

Code No.

SEWAGE FACILITIES PLANNING MODULE

Component 3. Sewage Collection and Treatment Facilities

(Return completed module package to appropriate municipality)

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

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

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

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

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

A. PROJECT INFORMATION (See Section A of instructions)

1. Project Name Grandview Avenue Townhomes

2. Brief Project Description The planned development of the 0.4870 acre tract is for construction of eight (8) new homes in the 19th ward of the City of Pittsburgh, Allegheny Co., PA. Existing homes on the parcel are to be demolished. Existing water/sewer flows currently at the site are 4 EDU's/1,600 GPD. There will be an increase in flows of 6 EDU's/2,400 GPD for a total flow of 10 EDU's/4,000 GPD after development..

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

Municipality Name	County	City	Boro	Twp
City of Pittsburgh	Allegheny	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Battistone	Martina			
Additional Individual Last Name	First Name	MI	Suffix	Title
Municipality Mailing Address Line 1	Mailing Address Line 2			
Dept. of City Planning	200 Ross Street, 4th floor			
Address Last Line -- City	State	ZIP+4		
Pittsburgh	PA	15219		
Area Code + Phone + Ext.	FAX (optional)	Email (optional)		
412-255-2516		martina.battistone@pittsburghpa.gov		

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name

Grandview Avenue Townhomes

Site Location Line 1

515, 519, 523 and 525 Grandview Avenue

Site Location Line 2

19th Ward

Site Location Last Line -- City

City of Pittsburgh

State

PA

ZIP+4

15211

Latitude

40°26'6.32"N

Longitude

80°0'45.12"W

Detailed Written Directions to Site Take US-579 S toward Liberty Bridge. Follow signs for Crosstown Blvd. Turn right onto P.J. McArdle Roadway. Follow to Grandview Avenue. Make a left onto Grandview Avenue. 515, 519, 523 and 525 Grandview Avenue will be on your right approximately 200 feet down Grandview Avenue.

Description of Site Existing 0.4870 acres is comprised of four (4) urban lots developed with homes.

Site Contact (Developer/Owner)

Last Name

Senko

First Name

Kris

MI

Suffix

Phone

412-683-2011

Ext.

Site Contact Title

Officer

Site Contact Firm (if none, leave blank)

NESBY LLC

FAX

Email

kris.senkoinc@gmail.com

Mailing Address Line 1

4605 Irvine St.

Mailing Address Line 2

Mailing Address Last Line -- City

Pittsburgh

State

PA

ZIP+4

15207

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

Last Name

Cenna

First Name

Thomas

MI

Suffix

Title

Senior Project Manager

Consulting Firm Name

Hampton Technical Associates, Inc.

Mailing Address Line 1

35 Wilson Street

Mailing Address Line 2

Suite 201

Address Last Line -- City

Pittsburgh

State

PA

ZIP+4

15223

Country

USA

Email

thomasc@hampton-tech.net

Area Code + Phone

412-781-9660

Ext.

223

Area Code + FAX

412-781-5904

E. AVAILABILITY OF DRINKING WATER SUPPLY

The project will be provided with drinking water from the following source: (Check appropriate box)

- Individual wells or cisterns.
- A proposed public water supply.
- An existing public water supply.

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

Name of water company: PWSA

F. PROJECT NARRATIVE (See Section F of instructions)

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

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

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

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

1. COLLECTION SYSTEM

a. Check appropriate box concerning collection system

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

Clean Streams Law Permit Number _____

b. Answer questions below on collection system

Number of EDU's and proposed connections to be served by collection system. EDU's 10

Connections 9

Name of:

existing collection or conveyance system Grandview Avenue - 12" Combo Sewer

owner PWSA

existing interceptor Saw Mill Run Interceptor and Ohio Interceptor

owner ALCOSAN

2. WASTEWATER TREATMENT FACILITY

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

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

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

Name of existing facility ALCOSAN Wood's Run (WWTP)

NPDES Permit Number for existing facility PA0025984

Clean Streams Law Permit Number _____

Location of discharge point for a new facility. Latitude 40°28'37"N Longitude 80° 02'44"W

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 WWTP
(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 (Allegheny County Sanitary Authority)

Name of Responsible Agent M. D. Lubbe

Agent Signature [Signature] Date 3/16/2020

(Also see Section I. 4.)

G. PROPOSED WASTEWATER DISPOSAL FACILITIES (Continued)

3. PLOT PLAN

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

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

4. WETLAND PROTECTION

YES NO

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

5. PRIME AGRICULTURAL LAND PROTECTION

YES NO

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

6. HISTORIC PRESERVATION ACT

YES NO

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

7. PROTECTION OF RARE, ENDANGERED OR THREATENED SPECIES

Check one:

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

Applicant or Consultant Initials _____.

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

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

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

1. Waters designated for Special Protection

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

2. Pennsylvania Waters Designated As Impaired

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

3. Interstate and International Waters

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

4. Tributaries To The Chesapeake Bay

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

Name of Permittee Agency, Authority, Municipality _____

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

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

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

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

1. Project Flows 4,000 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	2938989	10286461	391785	1371249	415575	1454512
Conveyance		2.44 mgd	0.74 mgd	0.85 mgd	0.75 mgd	0.86 mgd
Treatment	216.1	250 mgd	216.1	250 mgd	202.9 mgd	250 mgd

3. Collection and Conveyance Facilities

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

YES NO

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

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

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

b. Collection System

Name of Agency, Authority, Municipality Pittsburgh Water and Sewer Authority (PWSA)

Name of Responsible Agent BARRY K. KING, PE

Agent Signature [Signature] Date 2/27/2020

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

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Michael D. Latta

Agent Signature [Signature]

Date 3/18/2020

4. Treatment Facility

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

YES NO

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

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

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

- b. Name of Agency, Authority, Municipality ALCOSAN (Allegheny County Sanitary Authority)

Name of Responsible Agent Michael D. Latta

Agent Signature [Signature]

Date 3/18/2020

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

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

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

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

L. PERMEABILITY TESTING (See Section L of instructions)

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

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

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

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

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

O. SEWAGE MANAGEMENT (See Section O of instructions)

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

Yes No

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

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

2. Project Flows _____ gpd

Yes No

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

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

(For completion by non-municipal facility agent)

4. Collection and Conveyance Facilities

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

Yes No

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

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

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

- b. Collection System

Name of Responsible Organization _____

Name of Responsible Agent _____

Agent Signature _____

Date _____

- c. Conveyance System

Name of Responsible Organization _____

Name of Responsible Agent _____

Agent Signature _____

Date _____

5. Treatment Facility

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

Yes No

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

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

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

- b. Name of Facility _____

Name of Responsible Agent _____

Agent Signature _____

Date _____

(For completion by the municipality)

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

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

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

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

Yes No

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

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

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

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

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

<u>Kris Senko</u>	
Name (Print)	Signature
<u>Officer</u>	<u>1/31/20</u>
Title	Date
NESBY LLC, 4605 Irvine St., Pittsburgh, PA 15207	<u>412-683-2011</u>
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 \$500 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.

$$\#10 \text{ Lots (or EDUs) X } \$50.00 = \$ 500.00$$

The fee is based upon:

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

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

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

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

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

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

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

The fee is based upon:

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

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

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

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
SECTION 2.0 PLANNING REVIEW

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
COMPONENT 4A: MUNICIPAL PLANNING REVIEW



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 existing local municipal planning agency for their comments.

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

Project Name
Grandview Avenue Townhomes

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

1. Date plan received by municipal planning agency. 3-5-20
2. Date review completed by agency. 3-5-20

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 type="checkbox"/>	<input checked="" type="checkbox"/>	9. Is this proposal consistent with the ordinance? If no, describe the inconsistencies <u>under review</u>
<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 type="checkbox"/>	<input checked="" 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 type="checkbox"/> | <input checked="" type="checkbox"/> | 13. Is this proposal consistent with the ordinance?
If no, describe the inconsistencies <u>under review</u> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 14. Is this plan consistent with the municipal Act 537 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? |
| 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>MBattistone</u> | | |
| Date: <u>3-5-20</u> | | |
| Name of Municipal Planning Agency: <u>City of Pittsburgh</u> | | |
| Address: <u>200 Ross St. 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 desired, 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 project sponsor.

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
COMPONENT 4C: COUNTY OR JOINT HEALTH DEPARTMENT REVIEW – ACHD

**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.

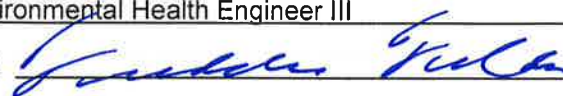
SECTION A. PROJECT NAME (See Section A of instructions)

Project Name
Grandview Avenue Townhomes

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

1. Date plan received by county or joint county health department March 5, 2020
 Agency name Allegheny County Health Department (ACHD)
2. Date review completed by agency March 6, 2020

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

- | Yes | No | |
|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Is the proposed plan consistent with the municipality's Official Sewage Facilities Plan?
If no, what are the inconsistencies? _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?
If yes, describe _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. Is there any known groundwater degradation in the area of this proposal?
If yes, describe _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. The county or joint county health department recommendation concerning this proposed plan is as follows: <u>ACHD recommends approval. See attached letter.</u> |
| | | 5. Name, title and signature of person completing this section:
Name: <u>Freddie Fields</u>
Title: <u>Environmental Health Engineer III</u>
Signature: <u></u>
Date: <u>March 6, 2020</u>
Name of County Health Department: <u>ACHD</u>
Address: <u>3901 Penn Avenue, Building #5, Pittsburgh, PA 15224-1318</u>
Telephone Number: <u>412-578-8046</u> |

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

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

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

COUNTY OF



ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

March 6, 2020

Thomas Cenna, RLA LEED AP
Hampton Technical Associates, Inc
Etna Technical Center
35 Wilson Street, Suite 201
Pittsburgh, PA 15223

RE: SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes, City of Pittsburgh
ALLEGHENY COUNTY

Dear Mr. Cenna:

Enclosed is a signed copy of Component 4C, County or Joint County Health Department Review, for the above-referenced development. This Planning Module Component was received on March 5, 2020. The project proposes the following:

Project Description:	Grandview Avenue Townhomes. NESBY LLC is proposing to demolish 4 existing homes and construct eight new single family connected townhomes located at 515, 519, 523, & 525 Grandview Avenue (Block & Lot Nos. 1-N-272, 1-N-275, 1-N-277 & 1-N-279) in the City of Pittsburgh, Allegheny County.
Sewage Flow:	2,400 GPD
Conveyance:	The flow from this site will be conveyed to the Pittsburgh Water & Sewer Authority (PWSA) collection system to ALCOSAN POC S-38 to the Saw Mill Run interceptor, Ohio 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



Mr. Thomas Cenna, RLA LEED AP
March 6, 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, appearing to read "Freddie Fields".

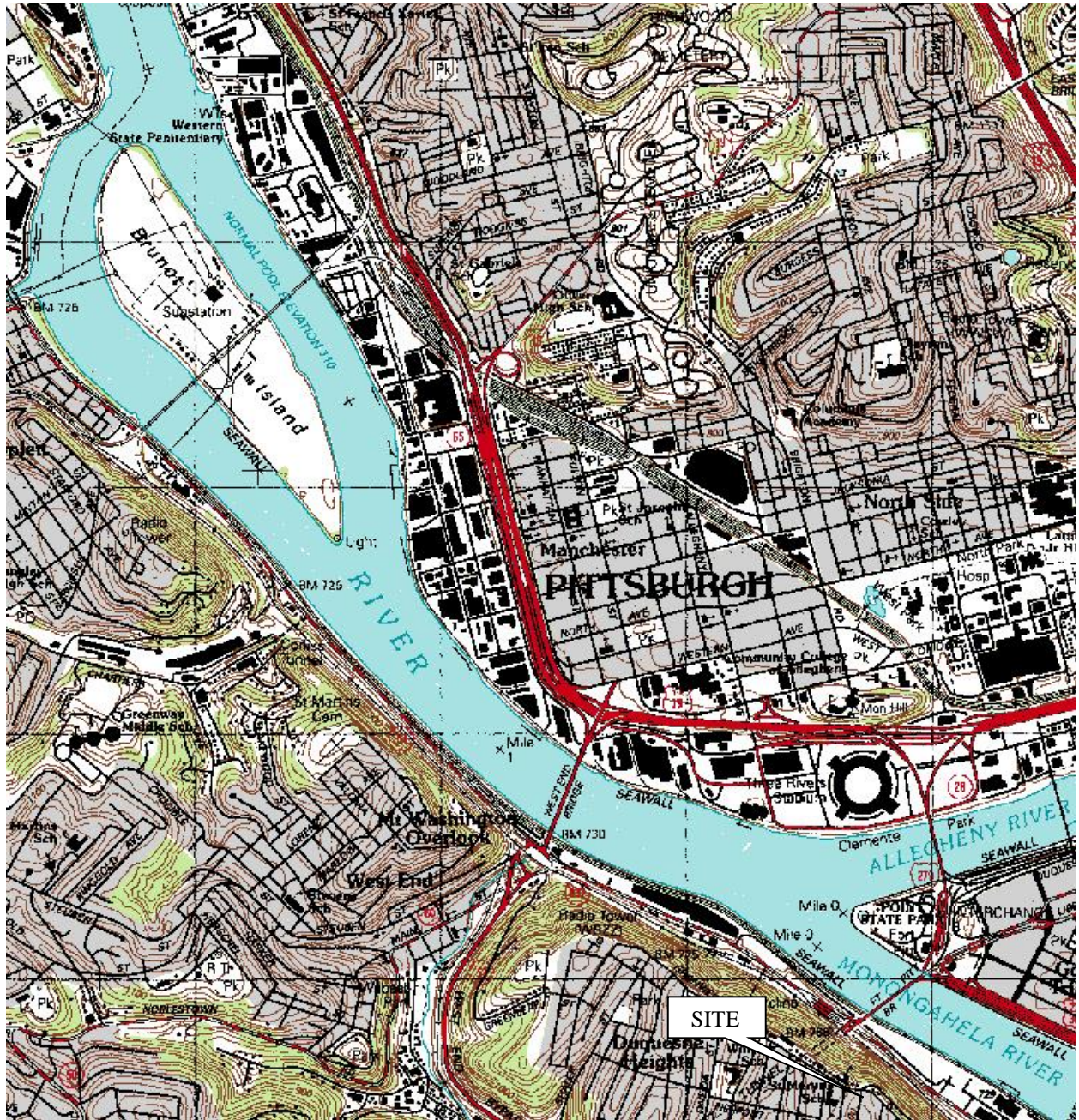
Freddie Fields, M.B.A.
Environmental Health Engineer III
Water Pollution Control & Solid Waste Management

FF/cb
Enclosure

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

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
SECTION 3.0 REFERENCES

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
EXHIBITS



Scale: NTS

FIGURE 1
USGS Pittsburgh West



HAMPTON TECHNICAL ASSOCIATES, INC.

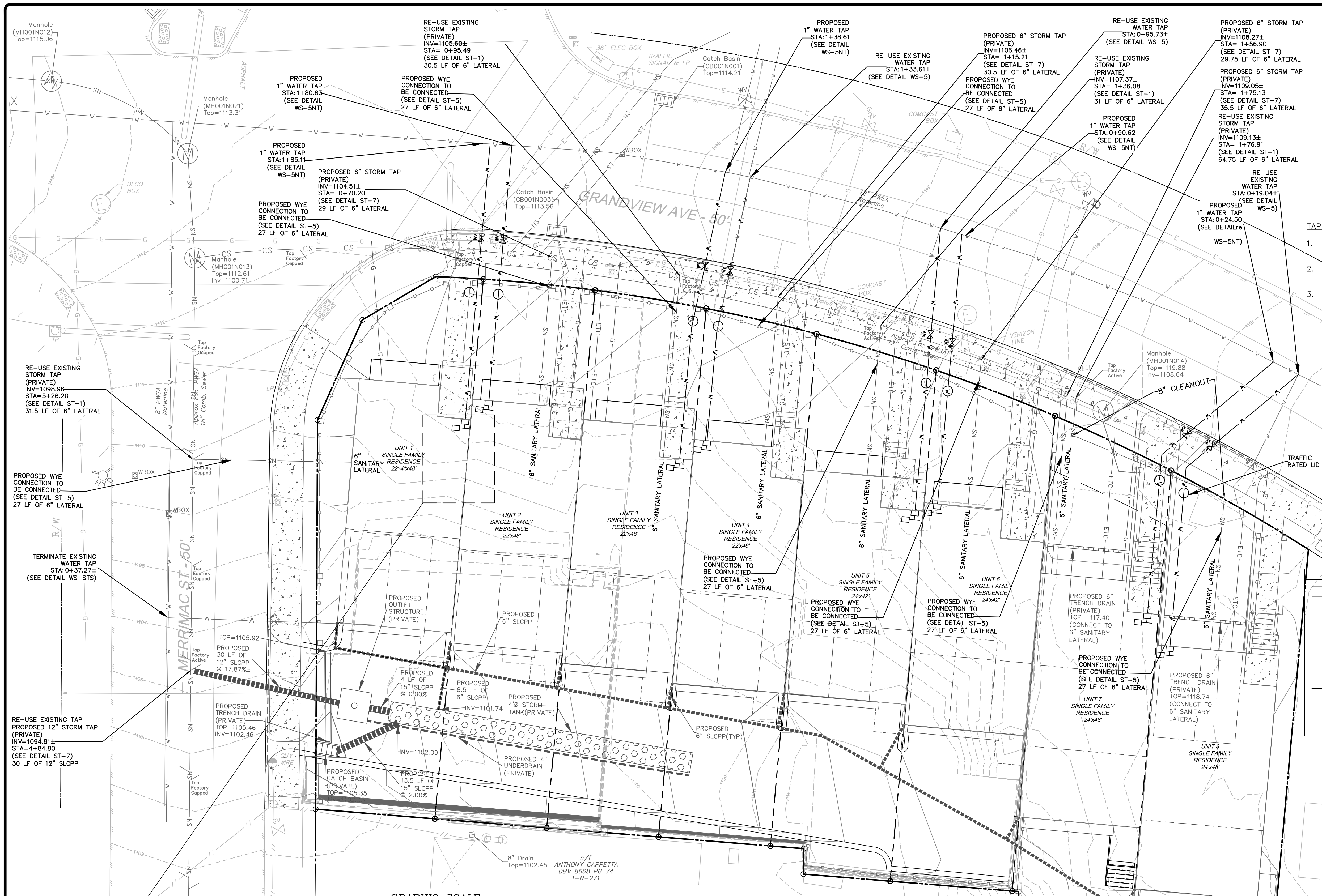
Engineering Land Surveyors

CORPORATE OFFICE

35 Wilson Street – Suite 201
Pittsburgh, PA 15223



SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
DRAWINGS



CALL BEFORE YOU DIG!
 PENNSYLVANIA LAW REQUIRES
 3 WORKING DAYS NOTICE FOR
 CONSTRUCTION PHASE AND 10 WORKING
 DAYS IN DESIGN STAGE - STOP CALL

PA
 FAC'S SERIAL NUMBER
 20182210957
 1-800-242-1776



- TAP-IN NOTES:
- ALL TAP-IN TO BE COMPLETED IN ACCORDANCE WITH PWSA STANDARDS PER THEIR PROCEDURE MANUAL FOR DEVELOPERS DATED MARCH 2018.
 - ALL PLUMBING TO BE COMPLETED IN ACCORDANCE WITH ALLEGHENY COUNTY PLUMBING CODE.
 - CONTRACTOR TO INSTALL UTILITY LATERALS AS CLOSE TOGETHER AS POSSIBLE.

HYDRANT FLOW TEST DATA
 (REQUIRED FOR TAPS LARGER THAN 1-INCH)
 Date of Test 11-22-2019 Hydrant Permit Number: 19-197
 Test performed by: Kevin Kelso - Preferred Inspection Testing Maintenance

HYDRANT NUMBER	D354	D795
LOCATION	Merrimac St. near Grandview	Grandview Ave. @ Ulysses St.
STATIC PRESSURE (psi)	-	62 Psi
RESIDUAL PRESSURE (psi)	-	58 Psi
FLOW OBSERVED (gpm)	1,300 gpm	-

Fire Protection Demands:
 Sprinkler System Peak Demand: ___ GPM ___ PSI
 Inside Hose Demand: N/A GPM
 Outside Hose Demand: N/A GPM
 Domestic System Peak Demand: 15.97 GPM
 Private Fire Hydrant Demands: N/A GPM

LEGEND

/// OVERHEAD ELECTRIC LINE	CS COMBINATION SEWER
E UNDERGROUND ELECTRIC	SMH SANITARY MANHOLE
UP □ UTILITY POLE	CO CLEANOUT
OP ● GUIDE POLE	MH MANHOLE
EBOX □ ELECTRIC METER	ST STORM SEWER
LP □ LIGHT POLE	STMH STORM MANHOLE
G GAS LINE	CB CATCH BASIN
GV □ GAS VALVE	EW END WALL
GM □ GAS MARKER	TMH COMMUNICATION MANHOLE
GAS METER	TELE COMMUNICATION BOX
WATER LINE	TV COMMUNICATION VAULT
WV WATER VALVE	/// EDGE OF PAVEMENT
PH HYDRANT	STP STEPS
WBOX WATER BOX	○ SURVEY MARKERS
	△ SURVEY WORK POINT NAIL

THE PITTSBURGH WATER AND SEWER AUTHORITY
 APPROVAL FOR:

- NEW WATER TAP, BACKFLOW PREVENTOR, AND METER INSTALLATION
- NEW SANITARY AND/OR STORM SEWER TAP
- INCREASE IN FLOW AT EXISTING SEWER AND/OR WATER CONNECTION
- SEWER TAP TERMINATION
- WATER TAP TERMINATION
- EXTENDED FACILITIES
- RELOCATION OF FACILITIES

*DISCLAIMER:
 Signature/Approval by PWSA are for the physical connection(s) to the water and/or sewer system only.
 Responsibility for the design and work depicted by the drawings, including the flow design for the facilities, is by the Professional Engineer shown by the seal and signature affixed to the drawing. The PWSA does not represent or warrant that the water to the facilities is sufficient to support the design demands.

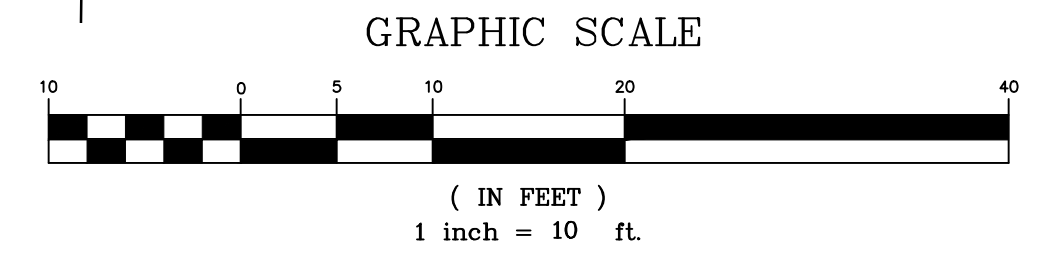
PWSA Project Reviewer certifies that he/she has reviewed the above noted document(s) in accordance with the Authority's established rules and regulations. Based on this review, approval is hereby recommended.

Project Coordinator/Project Management Engineer/Reviewer _____ Date _____

Approval _____ Date _____

Director of Operations _____ Date _____

Director of Engineering and Construction _____ Date _____



WATER TAP TABULATIONS

4 EXISTING TAP
1 EXISTING TAPS PROPOSED FOR TERMINATION
3 EXISTING WYE TAP PROPOSED FOR USE
1 NEW TAPS PROPOSED
7 TAPS PROPOSED TOTAL

SEWER TAP TABULATIONS

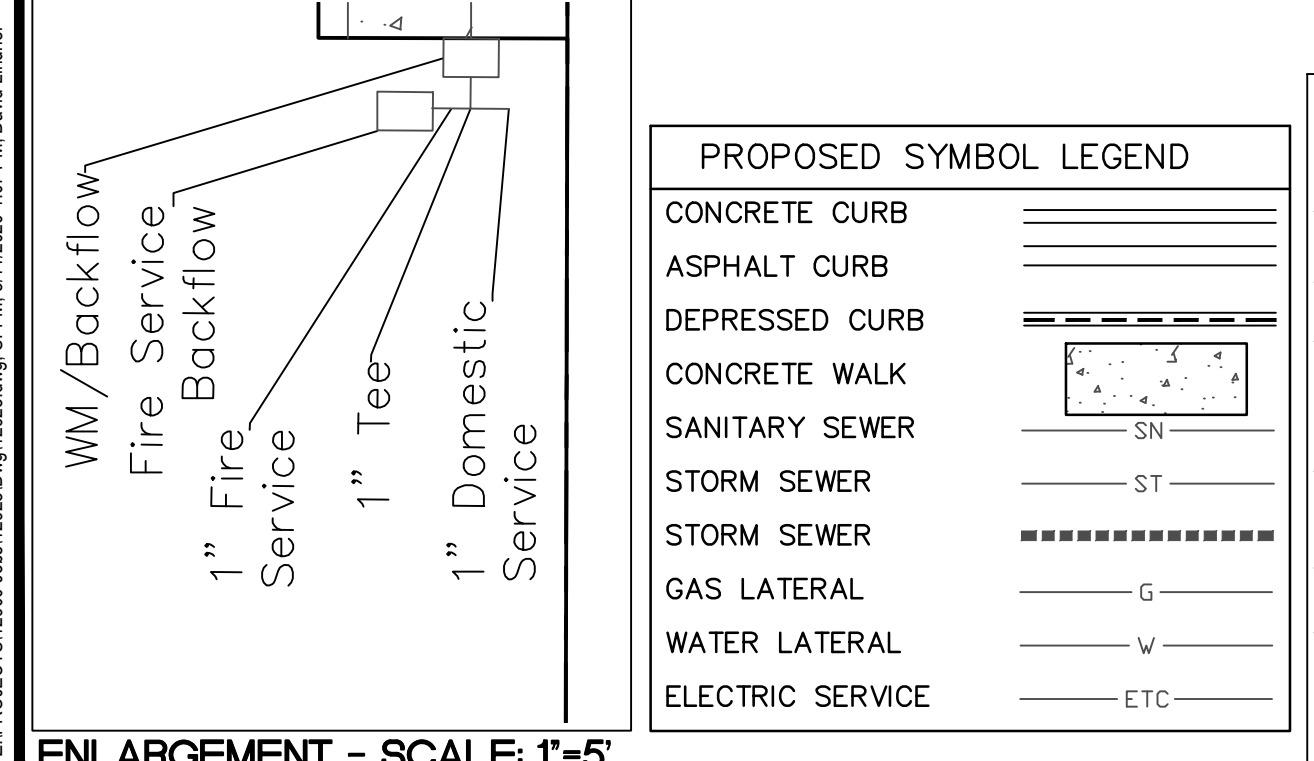
4 EXISTING TAP
0 EXISTING TAPS PROPOSED FOR TERMINATION
4 EXISTING WYE TAP PROPOSED FOR USE
5 NEW TAPS PROPOSED
9 TAPS PROPOSED TOTAL

WATER AND SEWER FLOW DATA

WATER CONSUMPTION	4,000 GPD
SANITARY FLOW	4,000 GPD
STORM FLOW	2,4009 CFS
PLANNING MODULE NUMBER (ASSIGNED BY PWSA)	-
PADEP APPROVAL DATE (ASSIGNED BY PWSA)	-

Grandview Avenue Townhomes
 515, 519, 523, 525 Grandview Avenue
 PITTSBURGH, PA 15211

SCALE: 1"=10' SHEET ACCESSION NO. C-
 1-23-2020 1 OF 3 CASE NO. _____



City of Pittsburgh Only

Please be advised of the following requirements for installing fire service (Underground mains and their appurtenances in the City of Pittsburgh). A permit must be obtained from the Department of Permits, Licenses, and Inspections (PLI), prior to installing the underground fire service main. Application for this permit must be made by the contractor, that is registered with the City, and must include 3 sets of the "Water Tap-In" Plans bearing the approval stamp of PWSA. Once the drawings have been reviewed, approved, and the permit issued; all required thrust blocking must be inspected, for compliance with NFPA 13, by a City Building Inspector before it is backfilled. A Contractor's Material and Test Certificate for Underground Piping must then be completed, and given to the City approved Fire Inspector that is hired to witness the flush and hydrostatic tests. They will then forward the test results to PLI.

FAILURE TO COMPLY MAY RESULT IN FINES AND/OR A STOP WORK ORDER.

NOTE: Permit for the interior sprinkler/standpipe system will not be issued until all underground installations have been inspected, and approved.

To contact -PLI, call (412) 255-2181.

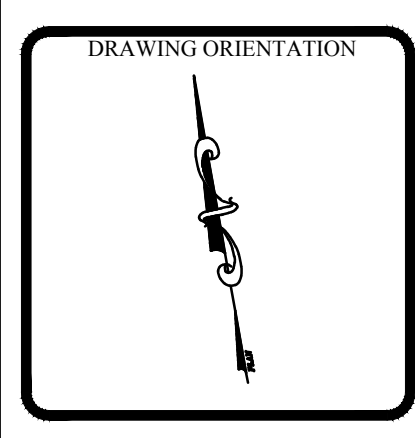


ENGINEERING LAND SURVEYORS
 ESTABLISHED 1960
 www.hampton-technical.com

Corporate Office
 Sina Technical Center
 35 Wilson Street, Suite 201
 Pittsburgh, PA 15223
 PHONE: (412) 781-9660
 FAX: (412) 781-5904

Mars Office
 123 Ridge Road, Suite B
 Valencia, PA 16059
 PHONE: (724) 625-4544
 FAX: (724) 625-4549

DATE ISSUED:	PROJECT STATUS:
REVISIONS:	DESCRIPTION:
NO.	DATE:



Grandview Avenue Townhomes
PWSA Tap-in/Termination Plan
 19th Ward, City of Pittsburgh, Allegheny County, PA

CLIENT ADDRESS:
 NESBY LLC
 4605 Irvine Street, Pittsburgh, PA 15207

PROJECT LOCATION:
 515, 519, 523, 525 Grandview Avenue
 Pittsburgh, PA 15211

DRAWN BY: DKL CHECKED BY: CMS
 CAD FILE: 18-129298.dwg
 HORIZ. SCALE: 1" = 10' VERT. SCALE: 1" = 10'
 SHEET: 1 OF 3
SFPM
 PROJECT #: 19-12928

Z:\PROJECTS\19200_0001\2020\DWG\12928.dwg, SFPM, 3/11/2020, 1:07 PM, David Lindner

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
APPENDICES

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
APPENDIX A: AVAILABILITY OF WATER SUPPLY

November 4, 2019

Hampton Technical Associates
Tom Cenna
35 Wilson Street
Pittsburgh, PA 15223

RE: Water and Sewer Availability
515, 519, 523, 525 Grandview Avenue

Dear Mr. Cenna:

In response to your inquiry on 10/31/2019 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,



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:	Nesby LLC		
Address of Property:	515, 519, 523, 525 Grandview Ave., Pgh, PA 15211		
Proposed Use of Site:	Residential		
Closest street intersection to the property:	Grandview Ave + Merrimac St.		
Requestor Name:	Tom Cerna - Hampton Tech Assoc.	Date of Request:	10/31/19
Requestor Address:	35 Wilson St., Pgh. PA 15223		
Requestor Phone Number:	412-781-9660		

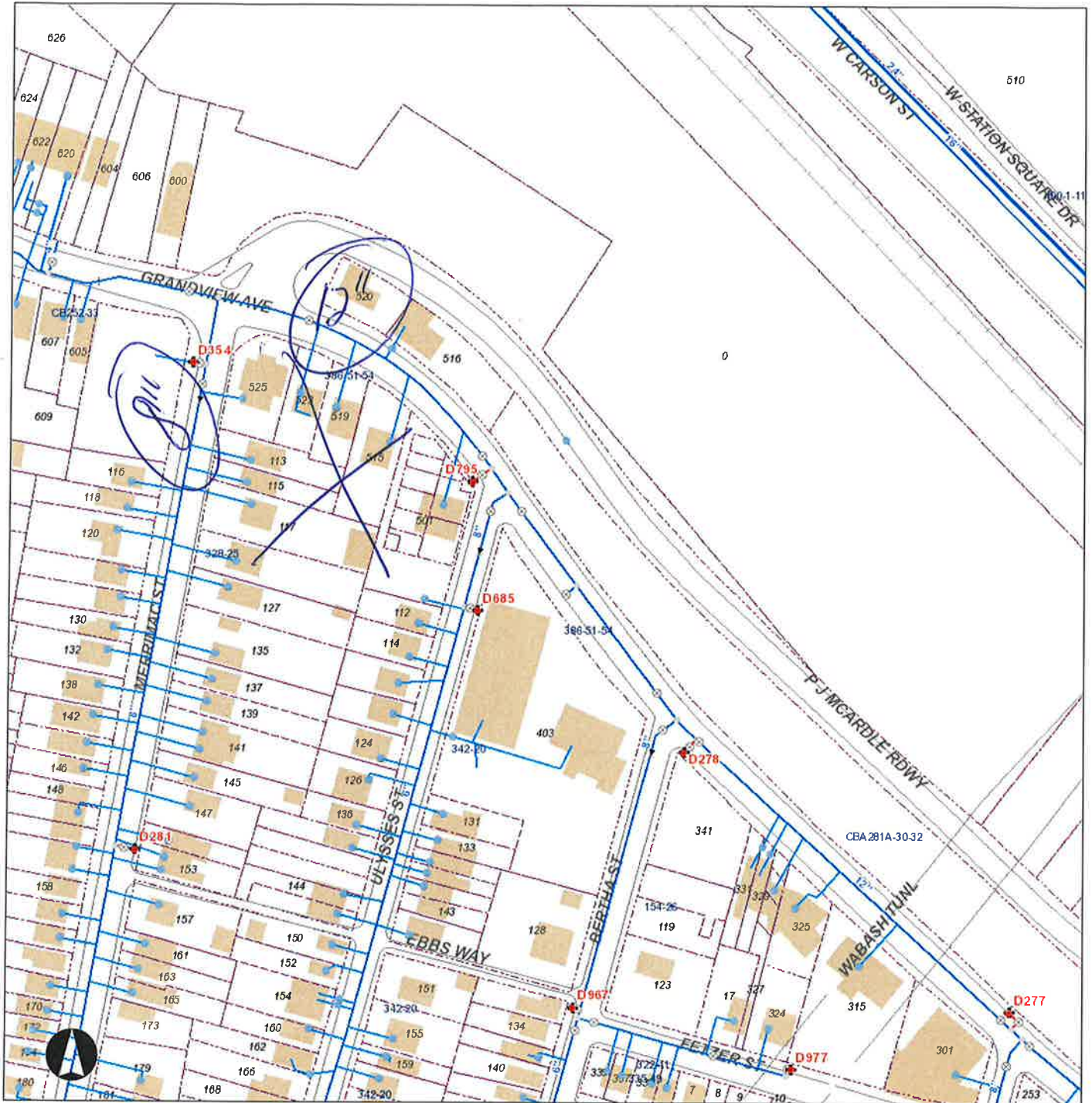
Please submit the completed form to:

Pittsburgh Water and Sewer Authority
 1200 Penn Avenue
 Pittsburgh, PA 15222
 Attn: Permits
 (permitinfo@pgh2o.com)

PWSA Use Only:			
PWSA Water Service Available:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Size / Location:	12" Grandview Ave, 8" Merrimac St
PWSA Sewer Service Available:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sewer Size / Location:	12" Grandview Ave, 15" Merrimac St
Applicant must contact separate agency for water and/or sewer service:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name of separate agency: _____	
PWSA Approval Authority:	Signature and Date	Wendy M. Dean 11-4-19	
	Name (printed)	Wendy M. Dean	
	Title	Engineering Tech II	

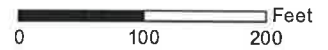
Disclaimer: The information provided by PWSA does not guarantee capacity of the PWSA-owned water and/or sewer lines to satisfy the needs of the proposed development. The permit application process required by PWSA evaluates the water demand and sewer flows of the development, as provided by the Applicant,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

515, 519, 523, 525 Grandview Ave - Water



Legend

- | | | |
|-------------------------|--------------------|--------------------------|
| Meter | Water Manhole | Outfall |
| 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 |



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

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
APPENDIX B: SEWAGE AVAILABILITY OF CAPACITY & ALLOCATION



Pittsburgh
Water & Sewer
Authority

November 4, 2019

Hampton Technical Associates
Tom Cenna
35 Wilson Street
Pittsburgh, PA 15223

RE: Water and Sewer Availability
515, 519, 523, 525 Grandview Avenue

Dear Mr. Cenna:

In response to your inquiry on 10/31/2019 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'.

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:	Nesby LLC		
Address of Property:	515, 519, 523, 525 Grandview Ave., Pgh, PA 15211		
Proposed Use of Site:	Residential		
Closest street intersection to the property:	Grandview Ave + Merrimac St.		
Requestor Name:	Tom Cerna - Hampton Tech Assoc.	Date of Request:	10/31/19
Requestor Address:	35 Wilson St., Pgh. PA 15223		
Requestor Phone Number:	412-781-9660		

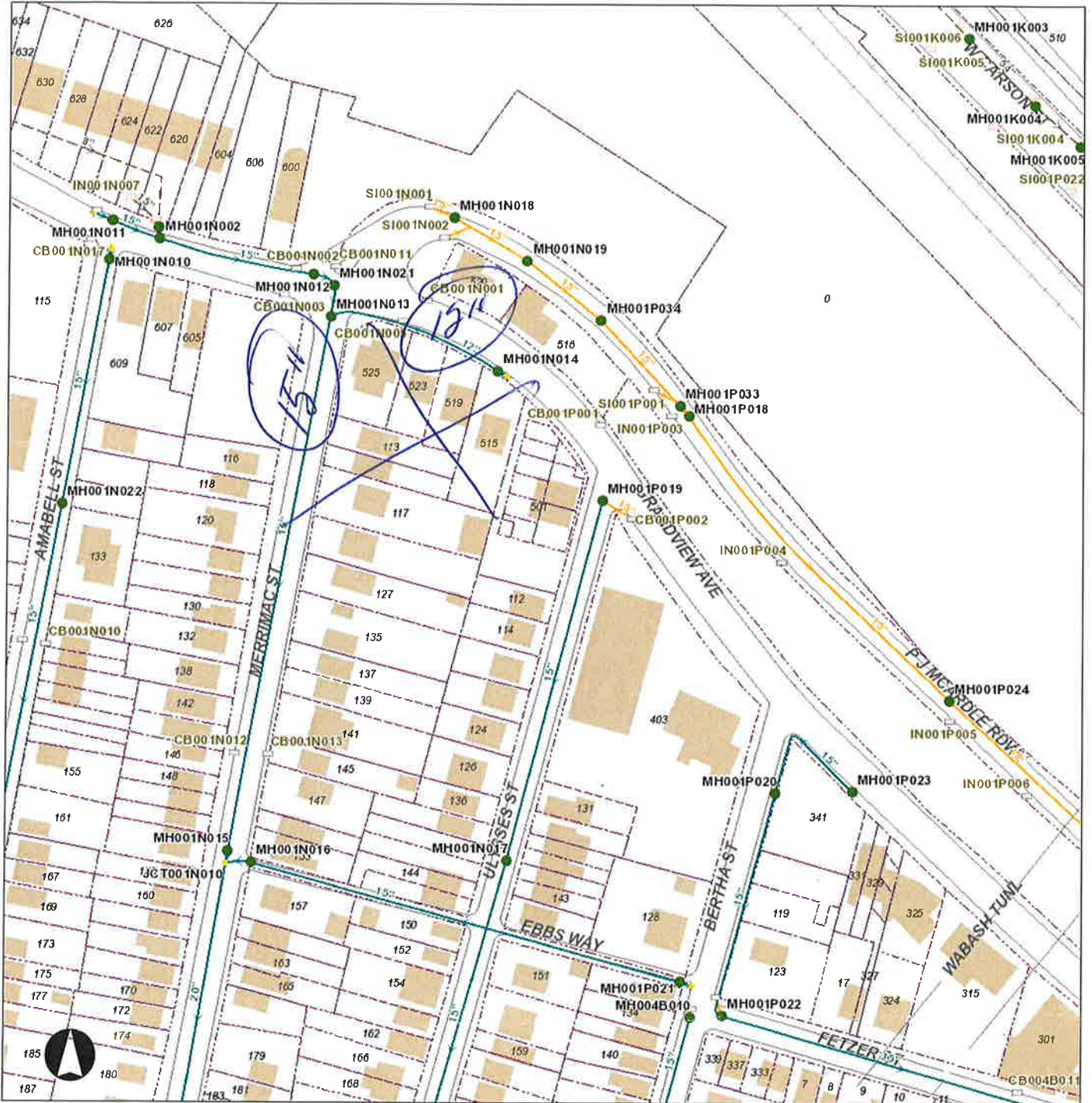
Please submit the completed form to:

Pittsburgh Water and Sewer Authority
1200 Penn Avenue
Pittsburgh, PA 15222
Attn: Permits
(permitinfo@pgh2o.com)

PWSA Use Only:			
PWSA Water Service Available:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Size / Location:	12" Grandview Ave, 8" Merrimac St
PWSA Sewer Service Available:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sewer Size / Location:	12" Grandview Ave, 15" Merrimac St
Applicant must contact separate agency for water and/or sewer service:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name of separate agency:	
PWSA Approval Authority:	Signature and Date	Wendy M. Dean 11-4-19	
	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.

515, 519, 523, 525 Grandview Ave - Sewer



Legend

- | | | |
|--------------------------|--------------------|--------------------------|
| Meter | Water Manhole | Outfall |
| 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 |



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January 9, 2020

Mr. Thomas Cenna
Hampton Technical Associates, Inc.
35 Wilson Street, Suite 201
Pittsburgh, PA 15223

Subject: Water and Sewer (W/S) Use Approval
Project Name: 515-525 Grandview Avenue Townhomes
PWSA Project No.: 19013.76

Dear Mr. Cenna:

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

Type of Flow	Sanitary, gpd	Water, gpd	Storm, cfs
<i>Project Flow</i>	4,000	4,000	0.9886
<i>Existing Flow</i>	1,600	1,600	2.4009
<i>Net Flow</i>	2,400	2,400	

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

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

Sincerely,


Robert Herring, P.E.
Engineering Consultant

Enclosure(s)

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

Project No. _____

(PWSA USE ONLY)

THE PITTSBURGH WATER AND SEWER AUTHORITY ENGINEERING AND CONSTRUCTION DIVISION

WATER AND SEWER USE APPLICATION

(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: Grandview 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.)* 515, 519, 523 and 525 Grandview Avenue, Pittsburgh, PA 15211.
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>4,000 gpd</u>	<u>4,000 gpd</u>	<u>2.4009 cfs</u>
<input type="checkbox"/> Commercial	_____	_____	_____
3. Acreage of development 0.4870 acres
4. Allegheny County Block & Lot Nos. 1-N-272, 1-N-275, 1-N-277 and 1-N-279
5. Ownership of Land Development

Name	Address
<u>NESBY LLC</u>	<u>4605 Irvine Street</u>
_____	<u>Pittsburgh, PA 15207</u>
6. Applicant (Subdivider, Developer, or Responsible Project Agent)
Name: Thomas Cenna – Hampton Technical Associates, Inc.
Address: Suite 201, 35 Wilson Street, Pittsburgh, PA 15223
Telephone 412-781-9660 Email: ThomasC@hampton-tech.net

B. WASTEWATER AND STORMWATER FACILITIES

Provide information on collection and treatment facilities.

1. COLLECTION SYSTEM
 - a. Number of proposed connections (sanitary and/or storm) 8 Sanitary/Storm + 1 Storm
 - b. Name of existing collection or conveyance system Merrimac Street
 - c. Name of interceptor ALCOSAN – Saw Mill Run Interceptor and Ohio Interceptor
 - d. Name of treatment facility ALCOSAN – Woods Run WWTP
2. SITE PLAN (24" x 36" maximum size accepted)
The following information is to be submitted on a site plan of the proposed subdivision.

a. Existing building.	f. Existing and proposed right(s)-of-way.
b. Lot lines and lot sizes.	g. Existing and proposed street, roadway, etc.
c. Remainder of tract.	h. Water bodies and wetland areas.
d. Orientation to North.	
e. Show proposed sewer line to the point of connection to existing collection system. Including all components (collection & conveyance lines, pumps, etc.)	

Applicant Signature: <u>Thomas Cenna</u>	Date: <u>12-10-2019</u>
--	-------------------------

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 Components are made subject to the penalties of 18 PA C.S.A. § 4904 relating to unsworn falsification to authorities.

Grandview Avenue Townhomes - 515, 519, 523 and 525 Grandview Avenue

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

Thomas Cenna
Name (Print)

Senior Project Manager
Title

Thomas Cenna
Signature

Suite 201, 35 Wilson Street, Pittsburgh, PA 15223
Address

412-781-9660
Telephone Number

12-10-2019
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.

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] 1/9/2020
Signature of Responsible Agent Date
Pittsburgh Water and Sewer Authority

Signature of Responsible Agent Date
ALCOSAN

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.

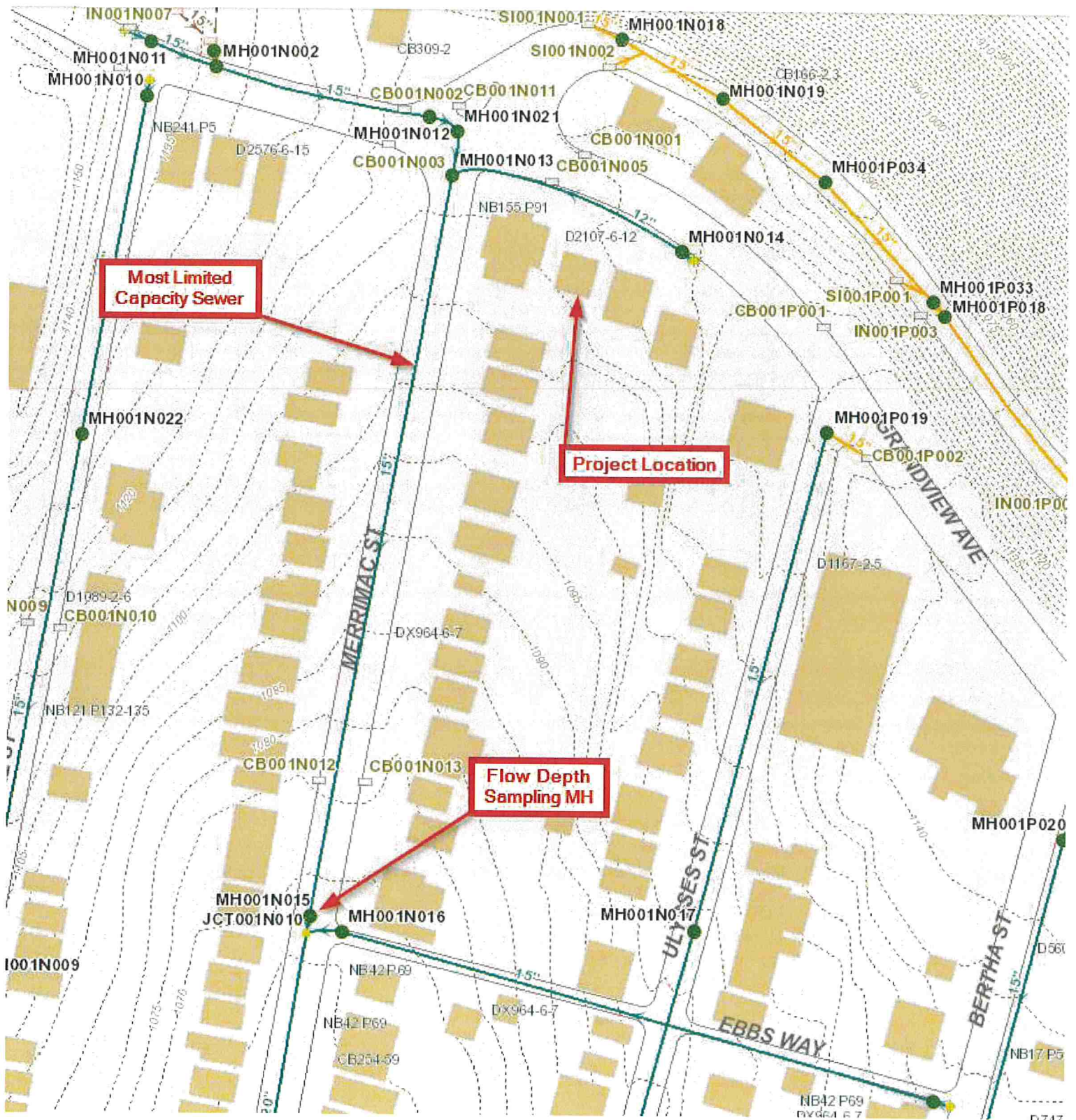
City of Pittsburgh _____
Department of City Planning Environmental Planner Date

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



Most Limited Capacity Sewer (MLCS) Spreadsheet

PROJECT NAME: 515-525 Grandview Avenue Townhomes
 PWSA PROJECT NUMBER: 19013.76
 PWSA REVIEWER: Robert Herring, P.E.
 DATE: January 9, 2019

LEGEND:

Output Data
Input Data
Questionable Data
Hydraulically Limited Sewer

Upstream MH	Downstream MH	Upstream Invert	Downstream Invert	Length, ft	Diam., in.	Material	n	Area, sf	Wetted P, ft	Slope	Flow, gpm
MH001N014	MH001N013	1108.29	1100.71	152.96	12	VCP	0.015	0.79	3.142	4.96%	4,454,539
MH001N013	MH001N015	1100.71	1055.21	563.09	15	VCP	0.015	1.23	3.927	8.08%	10,313,369
MH001N015	MH004A002	1055.21	1043.90	340.48	20	VCP	0.015	2.18	5.236	3.32%	14,240,959
MH004A002	MH004A005	1043.90	1021.30	414.92	20	VCP	0.015	2.18	5.236	5.45%	18,235,840
MH004A005	MH004A016	1018.48	1016.42	25.25	24	VCP	0.015	3.14	6.283	8.16%	36,291,644
MH004A016	MH004E008	1016.22	975.22	496.41	24	VCP	0.015	3.14	6.283	8.26%	36,515,343
MH004E008	MH004E011	975.22	965.29	166.25	30	RCP	0.013	4.91	7.854	5.97%	64,963,905
MH004E011	MH004E010	965.29	935.17	412.18	42	RCP	0.013	9.62	10.996	7.31%	176,253,242
MH004E010	MH004E009	935.17	914.50	281.38	42	RCP	0.013	9.62	10.996	7.35%	176,716,343
MH004E009	MH005M006	914.50	866.67	582.16	48	RCP	0.013	12.57	12.566	8.22%	266,825,474
MH005M006	MH005M005	866.67	839.28	324.00	48	RCP	0.013	12.57	12.566	8.45%	270,658,576
MH005M005	ADC005MS38	839.28	818.25	427.82	48	RCP	0.013	12.57	12.566	4.92%	206,389,394



January 9, 2020

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

Subject: Preliminary Determination on the Need for Sewage Planning
Project Name: 515-525 Grandview Avenue Townhomes
PWSA Project No.: 19013.76

Dear Mr. Flanagan:

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

Type of Sanitary Flow	Definition	Flow, gpd
Project Flow	Peak daily flow associated with the Project	4,000
Existing Flow	Peak daily flow within the past five years	1,600
Net Flow	= Project Flow - Existing Flow	2,400

Please see below for our Preliminary Determination on the Need for Sewage Planning:

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

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

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

Sincerely,


Robert Herring, P.E.
Engineering Consultant

Enclosure(s)

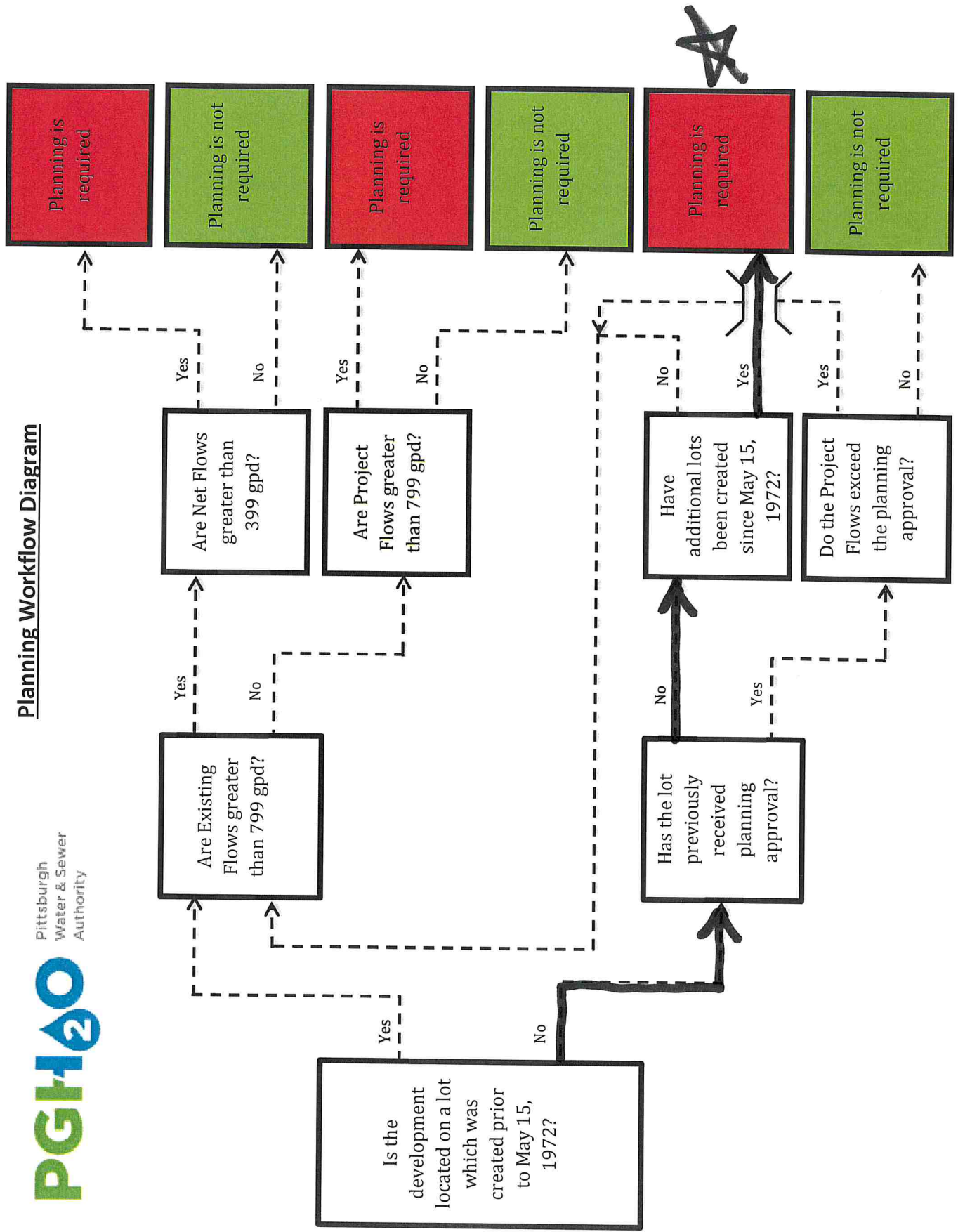
cc: Barry King, P.E. – PWSA (via email)
Kate Mechler, P.E. – PWSA (via email)
Hampton Technical Associates, Inc. – Applicant (via email)
eBuilder – Filing System (via email)

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

www.pgh2o.com
[@pgh2o](https://twitter.com/pgh2o)

Customer Service /
Emergencies:
412.255.2423

Planning Workflow Diagram



SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
APPENDIX C: PROJECT NARRATIVE



Corporate Office
35 Wilson Street -- #201 ★ Pittsburgh, PA 15223
Phone: (412) 781-9660 ★ Fax: (412) 781-5904

Mars Office
123 Ridge Road Suite B ★ Mars, PA 16046
Phone: (724) 625-4544 ★ Fax: (724) 625-4549

email@hampton-tech.com
www.hampton-tech.com

Project Narrative:

Grandview Avenue Townhomes
515, 519, 523 and 525 Grandview Avenue:
Pittsburgh, Pennsylvania 15211

General

NESBY LLC is proposing the construction of eight single family connected townhouses. The spaces will have between 2,300 and 2,600 square feet per house. The following is a synopsis of the water and sewer tapping anticipated for the project.

Water Usage

The proposed Homes will each obtain Domestic Water Service (DWS) and Fire Protection Water Service (FPS) via a new 1-inch lateral tap to the existing 12" PWSA line in Grandview Avenue or the existing 8" PWSA line in Merrimac Street. These tap locations have been stationed on the Plan. A 1-inch Domestic and Fire Line will then be conveyed to the building, where lines will be established with meter crock in the sidewalk outside the building and an RPZ Backflow Prevention just inside the building wall after the lines are split for domestic and fire protection.

Sanitary Sewage Flow

Sanitary Sewage Flow from the 8 single-family dwellings will be routed through one (1) 6-inch lateral for each home that will make a wye connection to the Stormwater lateral and then on to the existing 12-inch PWSA Combination Sewer in Grandview Avenue or the existing 15" PWSA line in Merrimac Street.

These Combination Sewer tap locations have been stationed on the plan. The existing 15" combination sewer line in Merrimac Street then connects into the Merrimac Street collection system and is conveyed to the Allegheny County Sanitary Authority's (ALCOSAN) Saw Mill Run Interceptor and the Ohio Interceptor and then to the ALCOSAN Woods Run WWTF.

PWSA requested that MH001N015 be sampled to verify the capacity of the most limited capacity sewer. The manhole is located at the intersection of Merrimac Street and Ebbs Way. HTA sampled the sewer on January 22nd 2020 at 10:30AM. The flow depth was observed to be approximately 2-inches. The depth was measured with a stadia rod. The existing sewer slope was used from PWSA's MLCS Spreadsheet.

Stormwater Flow

Stormwater flow from the storm tank that serves the 8 single-family dwellings will be routed through one (1) 15-inch lateral that will make a wye connection to the existing 15-inch PWSA Combination Sewer in Merrimac Street. This tap location has been stationed on the plan. The existing 15" combination sewer line then connects into the Merrimac Street collection system and is conveyed to the Allegheny County Sanitary Authority's (ALCOSAN) Saw Mill Run Interceptor and the Ohio Interceptor and then to the ALCOSAN Woods Run WWTF.



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email@hampton-tech.com
www.hampton-tech.com

Flow Calculations for:

Grandview Avenue Townhomes
515, 519, 523 and 525 Grandview Avenue:
Pittsburgh, Pennsylvania 15211

NESBY LLC is proposing the construction of a eight single family connected townhouses. The spaces will have between 2,300 and 2,600 square feet per house. The following is a synopsis of the water and sewer flows anticipated for the project:

515, 519, 523 and 525 Grandview Avenue: Anticipated Water Consumption (4,000 gpd) Eight (8) proposed 1-inch lateral taps to an existing line.

The proposed Homes will each obtain Domestic Water Service (DWS) and Fire Protection Water Service (FPS) via a new 1-inch lateral tap to the existing 12" PWSA line in Grandview Avenue or the existing 8" PWSA line in Merrimac Street. These tap locations have been stationed on the Plan. A 1-inch Domestic and Fire Line will then be conveyed to the building, where lines will be established with meter crock in the sidewalk outside the building and an RPZ Backflow Prevention just inside the building wall.

Irrigation is not scheduled for this phase of the project.

8 Single Family Dwellings:

- usages are anticipated based upon the following:

Supporting Data:

Each home estimated to be 2,300-2,600 sf of space – 4 bedrooms
Residential use:

Supporting Calculations:

515, 519, 523 and 525 Grandview Avenue: Assumes Single Family Dwelling (4 rooms or less) @ 500 gpd (PWSA Procedure Manual Table 2-1) X 8 Homes.

Total anticipated water usage for the development is **4,000 gpd**



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email@hampton-tech.com
www.hampton-tech.com

515, 519, 523 and 525 Grandview Avenue: Anticipated Sanitary Sewage Flows (4,000 gpd)
Eight (8) proposed 6-inch lateral taps.

Sanitary Sewage Flow from the 8 single-family dwellings will be routed through one (1) 6-inch lateral for each home that will make a wye connection to the Stormwater lateral and then on to the existing 12-inch PWSA Combination Sewer in Grandview Avenue or the existing 15" PWSA line in Merrimac Street. These Combination Sewer tap locations have been stationed on the plan. The existing 15" combination sewer line in Merrimac Street then connects into the Merrimac Street collection system and is conveyed to the Allegheny County Sanitary Authority's (ALCOSAN) Saw Mill Run Interceptor and the Ohio Interceptor and then to the ALCOSAN Woods Run WWTF.

We anticipated water usage to be **4,000 gpd**. Therefore, it is anticipated that sanitary sewer flows will increase from current flow conditions as noted below since there are 4 existing lots we are using for the new homes.

EXISTING FLOWS

4 Existing Detached Single Family Dwellings Calculation

Supporting Data:
(4) existing Single Family Homes
Residential use:

Supporting Calculations:
515, 519, 523 and 525 Grandview Avenue: Assumes (4) Single Family Dwellings @ 400 gpd
(PWSA Procedure Manual Table 2-1) = 1,600 gpd or 4 EDU's

TOTAL EXISTING FLOWS **1,600 gpd or 4 EDU's**

PROPOSED SEWER FLOWS

8 Proposed Attached Single Family Dwellings Calculation

Supporting Data:
(8) proposed homes each home estimated to have 2,300-2,600 sf of space – 4 bedrooms
Residential use:

Supporting Calculations:
515, 519, 523 and 525 Grandview Avenue: Assumes Single Family Dwelling (4 rooms or less) @ 500 gpd (PWSA Procedure Manual Table 2-1) X 8 Homes = 4,000 gpd or 10 EDU's

TOTAL PROPOSED FLOWS **4,000 gpd or 10 EDU's**

Total anticipated sewer discharge for the development is **4,000 gpd**

We anticipated existing sanitary sewer flow to be **1,600 gpd**, thus it is anticipated that sanitary sewer flow will increase over current flow conditions by the **2,400 gpd**.

Current Flow Condition is **1,600 gpd** Sewer Flow will increase by **2,400 gpd or 6 EDU's**



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515, 519, 523 and 525 Grandview Avenue: Proposed Stormwater Runoff (0.4105 cfs)

Three (3) proposed 6-inch tap

Stormwater flow from the storm tank that serves the 8 single-family dwellings will be routed through one (1) 15-inch lateral that will make a wye connection to the existing 15-inch PWSA Combination Sewer in Merrimac Street. This tap location has been stationed on the plan. The existing 15" combination sewer line then connects into the Merrimac Street collection system and is conveyed to the Allegheny County Sanitary Authority's (ALCOSAN) Saw Mill Run Interceptor and the Ohio Interceptor and then to the ALCOSAN Woods Run WWTF.

Calculations anticipate that there will be an increase in the peak discharge of stormwater from the site. However, this increase will be reduced to predevelopment levels by on-site controls.

Pre-Development Flows (0.4105 cfs):

Total Drainage area = 0.4870 acres = A_t
Total Impervious area = 0.2366 acres = A_i
Total Pervious area = 0.2504 acres = A_p

Impervious coefficient = 0.95 = C_i
Pervious coefficient = 0.45 = C_p

(Impervious area * C_i) / Total Drainage area = C_{avg}
(0.2366 * 0.95) / 0.4870 = 0.4615
(Pervious area * C_p) / Total Drainage area = C_{avg}
(0.2504 * 0.45) / 0.4870 = 0.2314

$$\sum C_{avg} = 0.3465 \approx 0.35 = \text{weighted coefficient} = C$$

The peak discharge Q is equal to the weighted coefficient C (0.35), based on the characteristics of the surface; multiplied by the rainfall intensity I (5.8 in/hr); multiplied by the total drainage area (0.4870 acres).

Thus $Q = (0.35)*(5.8)*(0.4870) = \mathbf{0.9886 \text{ cfs}}$



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www.hampton-tech.com

Post-Development Flows (0.4105 cfs):

Total Drainage area = 0.4870 acres = A_t
Total Impervious area = 0.3833 acres = A_i
Total Pervious area = 0.1037 acres = A_p

Impervious coefficient = 0.95 = C_i
Pervious coefficient = 0.45 = C_p

(Impervious area * C_i) / Total Drainage area = C_{avg}
(0.3833 * 0.95) / 0.4870 = 0.7477
(Pervious area * C_p) / Total Drainage area = C_{avg}
(0.1037 * 0.45) / 0.4870 = 0.0958

$$\sum C_{avg} = 0.8529 \approx 0.85 = \text{weighted coefficient} = C$$

The peak discharge Q is equal to the weighted coefficient C (0.85), based on the characteristics of the surface; multiplied by the rainfall intensity I (5.8 in/hr); multiplied by the total drainage area (.4870 acres).

Thus $Q = (0.85) * (5.8) * (0.4870) = \mathbf{2.4009 \text{ cfs}}$.

The increase in runoff will be mitigated by on-site controls.

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

Legend:

Output Data
Input Data

Project Name:	515-525 Grandview Avenue Townhomes
Project Location:	515, 519, 523 and 525 Grandview Avenue, Pgh. PA 15211
Preparer:	Christopher Schmidt, P.E.
Date:	January 31, 2020
Project Flow, gpd:	4000

Upstream Structure	Downstream Structure	Upstream Invert	Downstream Invert	Length, ft.	Diam., in.	Material	n	Flow Depth, in.	Area, sf	Wetted P, ft.	Slope
MH001N013	MH001N015	1100.71	1055.21	563	15	VCP	0.015	2.0	1.23	3.927	8.08%

Design Average Flow, gpd	Design Peak Flow, gpd	Present Average Flow, gpd	Present Peak Flow, gpd	Projected Average Flow, gpd	Projected Peak Flow, gpd
2,938,989	10,286,461	391,785	1,371,249	415,575	1,454,512



SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
APPENDIX D: PROPOSED WASTEWATER DISPOSAL FACILITIES

Appendix D
Proposed Wastewater Disposal Facilities

1. Collection System

The Grandview Avenue Townhome development will tap an existing 12-inch public sewage collection system in Grandview Avenue.

2. Wastewater Treatment Facility

The Grandview Avenue Townhome development will be serviced by the existing ALCOSAN treatment facility.

3. Social Economic Justification

The proposed project does not involve a discharge of treated effluent.

4. Plot Plan

The proposed project involves the construction of eight (8) single family attached townhouses. The eight (8) homes will have 2,300-2,600 square feet of floor area per house.

Drawing “Water and Sewer Tap-In Drawing”(SFP) provides a plot plan and addresses the requested information (as outlined in the Instructions for Completing Component 3 – Sewage Collection and Treatment Facilities) as summarized in Table D-1.

5. Wetland Protection

No wetlands have been identified within the proposed project area.

6. Primary Agricultural Land Protection

The Grandview Avenue Townhome development does not involve the disturbance of prime agricultural lands.

7. Historic Preservation Act

A Cultural Resources Notice was not submitted to the PMHC, Bureau of Historic Preservation. Per DEP/PMHD policies and procedures implementation of the history code list of Exemptions May 2066 (0120-PM-PY003a Rev. 5/2006) component 3 – sewage collection and treatment facilities is exempt if the earth disturbance is less than 10 acres. The earth disturbance for the site is less than 10 acres.

TABLE D-1

**The Grandview Avenue Townhome development
SEWAGE FACILITIES PLANNING MODULE**

PLOT PLAN

Information Requested	Plot Plan (Drawing SFP)
a. Existing and proposed buildings	Existing buildings in the project area are shown on Drawing SFP “Water and Sewer Tap-In Drawing”.
b. Lot lines and lot sizes	Drawing SFP “Water and Sewer Tap-In Drawing” shows the overall view of the proposed development. Refer to Appendix C for project narrative.
c. Adjacent lots	Drawing SFP “Water and Sewer Tap-In Drawing” shows adjacent properties.
d. Remainder of tract	Not Applicable.
e. Existing/proposed sewage facilities	The existing private collection system is identified on Drawing SFP “Water and Sewer Tap-In Drawing”.
f. Tap-in or extension to point of connection of existing collection system	Tap-in to existing private sewer line is shown on Drawing SFP “Water and Sewer Tap-In Drawing”.
g. Existing and proposed water supplies	The existing water main and taps are shown on Drawing SFP “Water and Sewer Tap-In Drawing”.
h. Existing/proposed right-of-way	Not Applicable.
i. Existing/proposed buildings, streets, roadways, access roads, etc.	Drawing SFP “Water and Sewer Tap-In Drawing” shows listed items.
j. Designated recreational/open area	Recreational and open spaces are identified on Drawing SFP “Water and Sewer Tap-In Drawing”.
k. Wetlands	No wetlands have been identified within the Grandview Avenue Townhome development.
l. Flood plains/flood prone areas/floodways	Not Applicable.
m. Prime Agricultural Land	No agricultural lands are found on site.
n. Other Facilities	Drawing SFP “Water and Sewer Tap-In Drawing” shows existing utility lines.
o. Orientation to North	Shown on Drawing SFP “Water and Sewer Tap-In Drawing”.
p. Location of all site Testing Activities	Not Applicable.
q. Soil Type Boundaries	Shown on Drawing SFP “Water and Sewer Tap-In Drawing”. UCD (Urban Land - Culleoka complex)
r. Topographic lines/elevations	Shown on Drawing SFP “Water and Sewer Tap-In Drawing”.

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
APPENDIX E: CULTURAL RESOURCE NOTICE

Grandview Avenue Townhomes
City of Pittsburgh, Allegheny County, Pennsylvania
Sewage Facilities Planning Module
Appendix E: Cultural Resource Notice

Appendix E
Cultural Resource Notice

A Cultural Resources Notice was not submitted to the PMHC, Bureau of Historic Preservation. Per DEP/PMHD policies and procedures implementation of the history code list of Exemptions May 2066 (0120-PM-PY003a Rev. 5/2006) component 3 – sewage collection and treatment facilities is exempt if the earth disturbance is less than 10 acres. The earth disturbance for the site is less than 10 acres.

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
APPENDIX F: ALTERNATIVE SEWAGE FACILITIES ANALYSIS

Appendix F
Alternative Sewage Facilities Analysis

There are two options for providing sewage services to the proposed townhomes at the Grandview Avenue Townhome development. Option 1 is to create eight (8) new taps on the existing 12-inch PWSA public collection system that runs in Grandview Avenue just upstream of manhole MH001N013. One tap for each townhome. The Pittsburgh Water and Sewer Authority (PWSA) owns and operates the line. PWSA has been consulted about providing sewage services to the project (Option 1) and this is their preferred option. Option 2 would be to construct an on-lot system within the development area. Some concerns with option 2 are that the area required to construct these facilities are not ideal for urbanized areas as they require a relatively large footprint. The project would not be economical viable with this option. Sewerage would be conveyed to both options via laterals from the townhomes.

1. The chosen disposal method is Option 1, an ultimate method, and that is to create a “Separated House Lateral One Connection to Main” tap-in for each townhome to an existing 12-inch combination sewer line. The flow for the proposed development is 4,000 GPD (10 EDU’s).
2. The surrounding properties are zoned for residential and commercial and are fully developed. They are serviced by Municipal Collection - Pittsburgh Water and Sewer Authority (PWSA). Regional Conveyance and Treatment - Allegheny County Sanitary Authority (ALCOSAN).
3. The PWSA is in the process of completing local as well as regional and multi-municipal Feasibility Studies. At this time there is no indication that there would be public/private projects proposed. The PWSA has capacity to service the land uses.
4. The approved method of sewage disposal in the City of Pittsburgh’s Official Sewage Facilities Plan is public sewers.
5. There are no existing sewage management programs in the area.
6. The chosen method of tapping into an existing 12-inch combination collection system to serve the development would serve the short and long-term needs because it can convey the required 4,000 GPD (10 EDU’s) to meet the full development of the site.

Option 2 was not chosen because on-lot sewerage is not recommended in urban areas.

Using the current PWSA approved sewage flow estimates would result in an on-site system that may cover substantial amounts of land. The topography and urban nature of the surrounding area limit potential area that can support this method. This system is impractical to build and operate successfully over time and has been discounted in the evaluation.

A more detailed project narrative is contained in Appendix C of this submittal.

7.
 - a. An area of concern for picking the preferred disposal method was the need to avoid unnecessary earth disturbance and avoid methods that would have long term maintenance concerns that could degrade the environment.
 - b. The topography and soils will not work for subsurface absorption system and the flow is too large.
 - c. The sewage treatment plant to be utilized is the existing ALCOSAN facility that is permitted through the PADEP.
 - d. The existing sewage collection system-and proposed extension are adequately sized to accept the increase in flow.
 - e. The chosen disposal method is the most cost effective for the developer as it will require the least amount public infrastructure improvements to service the development. This method will minimize to the highest extent practicable the long-term maintenance costs for the new collection system.

8. The existing collection system is owned and operated by PWSA.

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
APPENDIX G: PNHP CORRESPONDENCE

1. PROJECT INFORMATION

Project Name: **12928**

Date of Review: **3/18/2020 02:45:22 PM**

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

Project Area: **0.48 acres**

County(s): **Allegheny**

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

ZIP Code: **15211**

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

Watersheds HUC 8: **Upper Ohio**

Watersheds HUC 12: **Sawmill Run**

Decimal Degrees: **40.435034, -80.012556**

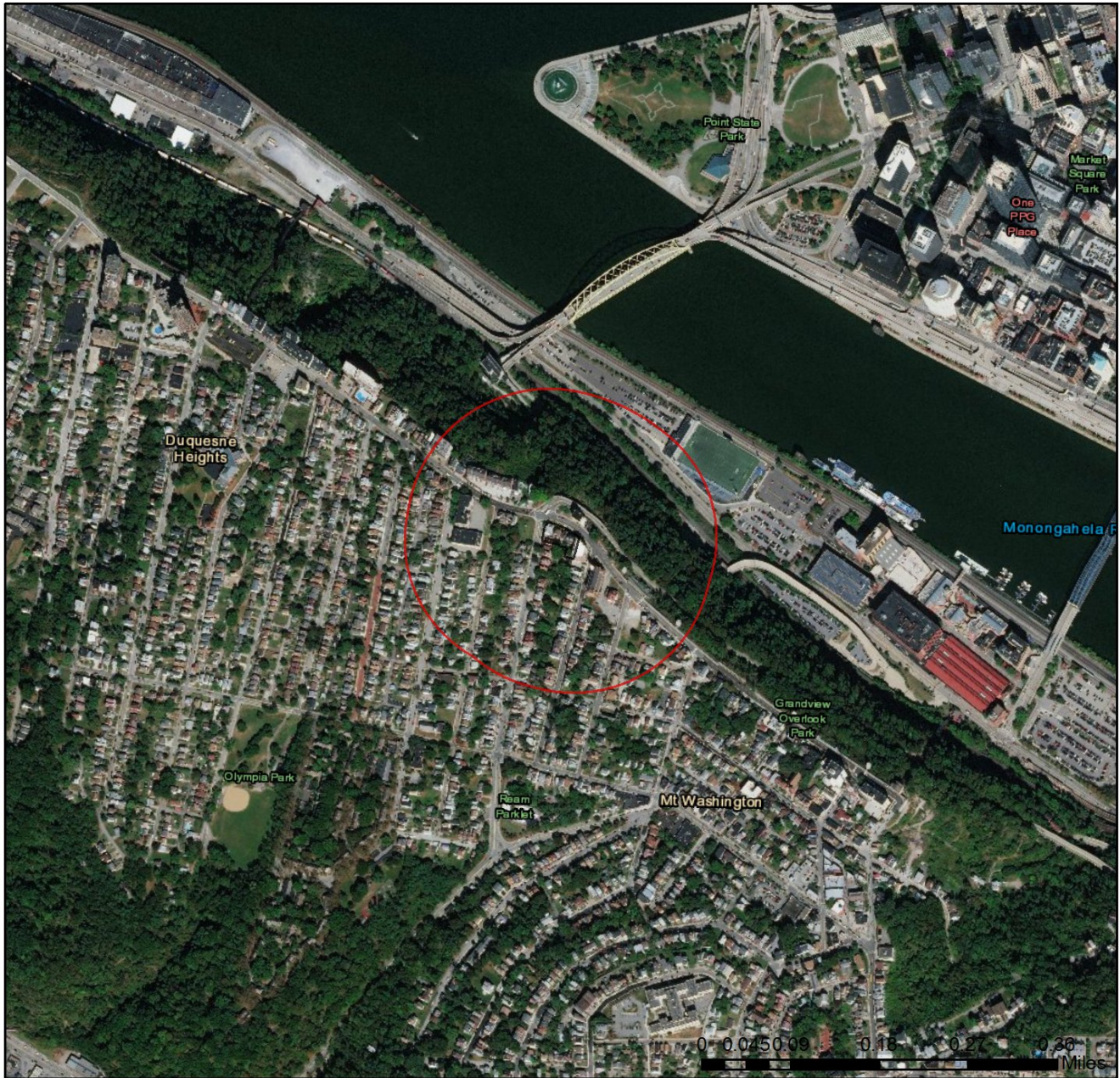
Degrees Minutes Seconds: **40° 26' 6.1222" N, 80° 0' 45.2030" W**

2. SEARCH RESULTS

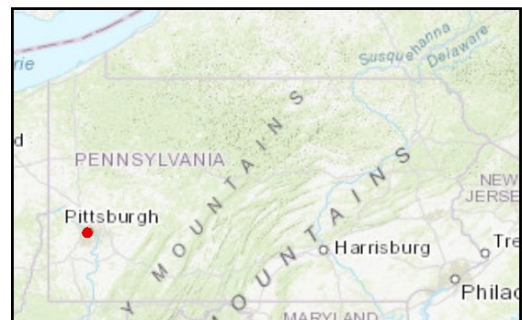
Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No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

12928

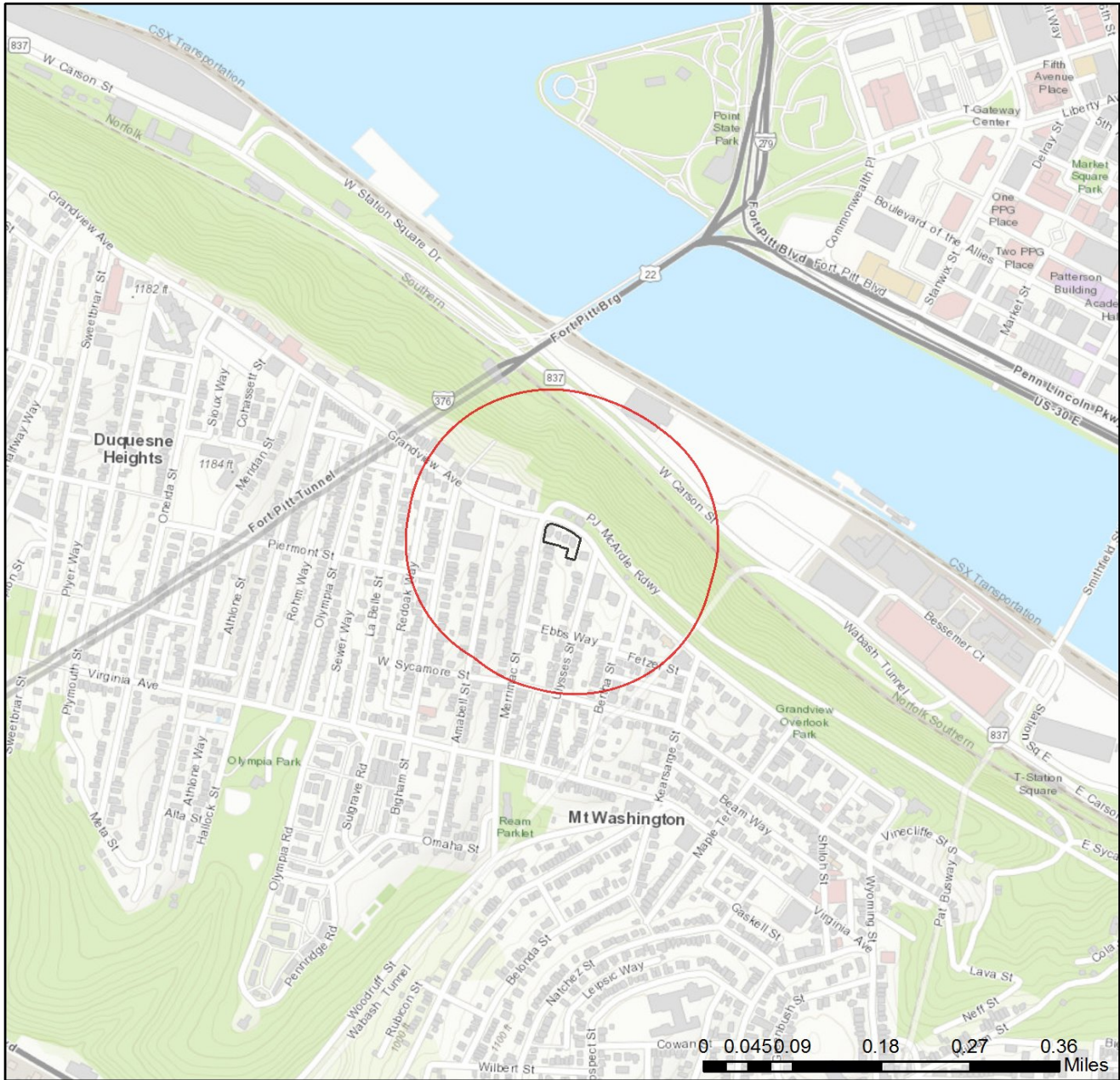


- Project Boundary
- Buffered Project Boundary



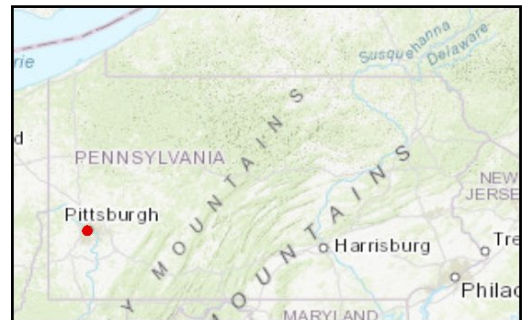
Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
Esri, HERE, Garmin, (c)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

12928



- 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: No forests, woodlots or trees will be affected by the project.

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: Thomas Cenna
Company/Business Name: Hampton Technical Associates, Inc
Address: 35 Wilson St., #201
City, State, Zip: Pittsburgh, PA 15223
Phone: (412) 781-9660 Fax: ()
Email: thomasc@hampton-tech.net

8. CERTIFICATION

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

applicant/project proponent signature

date

SEWAGE FACILITIES PLANNING MODULE
Grandview Avenue Townhomes
APPENDIX H: PUBLIC NOTICE

Appendix H
Public Notice

Public notice was not filed because the necessary thresholds were not met in Component 3 – Sewage Collection and Treatment Facilities, Section P “Public Notification Requirement”. All questions were answered no, therefore a public notice is not required.

