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Sewage Facilities Planning Module

City's Edge

Job # 12454-1

Prepared For

Midpoint Group of Companies, Inc.

112 Washington Place, Suite 3K

Pittsburgh, PA 15219

Location

**3rd WARD, CITY OF PITTSBURGH
ALLEGHENY COUNTY, PENNSYLVANIA**

Date Prepared

February, 2018



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**SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
TRANSMITTAL LETTER TO PADEP**



**TRANSMITTAL LETTER
 FOR SEWAGE FACILITIES PLANNING MODULE**

DEP USE ONLY				
DEP CODE # 02001-17-133	APS ID #	CLIENT ID #	SITE ID #	AUTH. ID #

TO: Approving Agency (DEP or delegated local agency)
 Department of Environmental Protection
 Southwest Regional Office
 c/o Tom Flanagan, Sewage Planning Supervisor
 400 Waterfront Drive
 Pittsburgh, PA 15222

Date _____

Dear Sir:

Attached please find a completed Sewage Facilities Planning Module prepared by Tom Cenna
 (Name)
Senior Project Manager – Hampton Technical Associates, Inc. for the City's Edge,
 (Title) (Name)
 a commercial and residential facility located in the 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", and is adopted for submission to the Department of Environmental Protection transmitted to the delegated local agency for approval in accordance with the requirements of Chapter 71 and the Sewage Facilities Act, 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 Sewage Facilities 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, 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"/> 4.A. Municipal Planning Agency Review |
| <input type="checkbox"/> 2. Individual and Community Onlot Disposal of Sewage | <input type="checkbox"/> 3s Small Flow Treatment Facilities | <input type="checkbox"/> 4.B. County Planning Agency Review |
| <input type="checkbox"/> 2m. Sewage Management Program | | <input checked="" type="checkbox"/> 4.C. County or Joint Health Department Review |

Municipal Secretary (print)

Signature

Date

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

**SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT**

Resolution No. _____

CITY OF PITTSBURGH

Introduced: Bill No:

Committee: Intergovernmental Affairs Committee Status:

Sponsored by:

Resolution adopting Plan Revision to the City of Pittsburgh's Official Sewage Facilities Plan for the City's Edge, 1400, 1440, 1450 and 1454 Colwell Street, Pittsburgh, PA 15219

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, Midpoint Group of Companies Inc. has proposed the development of a parcel of land identified as the City's Edge, Pittsburgh, PA 15219, Allegheny County, at block and lot U.R.A Parcel F of the Lower Hill Redevelopment Project, in the 3rd 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 West End Overlook at 716 Marlow Street, Pittsburgh, PA 15220, Allegheny County, at block and lot 20-M-59, in the 20th 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
CITY'S EDGE
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.
02001-17-133

SEWAGE FACILITIES PLANNING MODULE

Component 3. Sewage Collection and Treatment Facilities

(Return completed module package to appropriate municipality)

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

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

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

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

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

A. PROJECT INFORMATION (See Section A of instructions)

- Project Name City's Edge
- Brief Project Description Midpoint Group of Companies, Inc. is proposing the construction of a mixed use development that would include a restaurant, office, commercial space and apartments above a parking garage to be located at 1400, 1440, 1450 and 1454 Colwell Street in the City of Pittsburgh.

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
Robinson	George		II	Manager of Development Services
Additional Individual Last Name	First Name	MI	Suffix	Title
Municipality Mailing Address Line 1	Mailing Address Line 2			
Penn Liberty Plaza 1	1200 Penn Avenue			
Address Last Line -- City	State	ZIP+4		
Pittsburgh	PA	15222-2219		
Area Code + Phone + Ext.	FAX (optional)	Email (optional)		
412-255-8800		GRobinson@pgh2o.com		

412-255-8800

GRobinson@pgh2o.com

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name

City's Edge

Site Location Line 1 1400, 1440, 1450 and 1454 Colwell Street		Site Location Line 2 3 rd Ward		
Site Location Last Line -- City City of Pittsburgh	State PA	ZIP+4 15219	Latitude 40°43'93.28"N	Longitude 79°98'53.37"W

Detailed Written Directions to Site Start out going east on I-376 E/US-30 E/US-22 E/Penn Lincoln Pkwy E/Parkway East. Merge onto Grant St via EXIT 71A on the left. Turn right onto Forbes Ave. Turn left onto Pride St. Turn left onto Colwell St.

Description of Site Existing 0.90 acre urban lot with abandoned structures and grass/weeds..

Site Contact (Developer/Owner)

Last Name Cox	First Name Chad	MI	Suffix	Phone 412-721-2653	Ext.
Site Contact Title Vice President of Construction/Sr. PM		Site Contact Firm (if none, leave blank) Midpoint Group of Companies, Inc.			
FAX		Email ccox@midpointgc.com			
Mailing Address Line 1 112 Washington Place, Suite 3K		Mailing Address Line 2			
Mailing Address Last Line -- City Pittsburgh		State PA	ZIP+4 15219		

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

Last Name Cenna	First Name Tom	MI	Suffix
Title 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 97 _____

Connections 4 _____

Name of:

existing collection or conveyance system Our Way _____

owner PWSA _____

existing interceptor Monongahela 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 Wood's Run 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 SHAWN P. MCWILLIAMS, EIT _____

Agent Signature [Signature] Date 2/26/18 _____

(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 38440 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	1208979	4231425	37563	131472	79803	279311
Conveyance		20.6 MGD	3.00 MGD	3.26 MGD	3.04 MGD	3.33 MGD
Treatment		250 MGD		250 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 George Robinson, Jr.

Agent Signature [Signature] Date 1/19/18

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

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Shawn P. McWilliams, EIT

Agent Signature *Shawn P. McWilliams*

Date 2/26/18

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 *ALCOSAN IS UNDER A CONSENT DECREE TO ADDRESS WET WEATHER OVERFLOWS.

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

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

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

b. Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Shawn P. McWilliams, EIT

Agent Signature *Shawn P. McWilliams*

Date 2/26/18

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.

Form

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.

Chad Cox	
Name (Print)	Signature
Vice President for Construction	12/6/17
Title	Date
112 Washington Place, Suite 3K Pittsburgh, PA 15219	412-721-2653
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 \$4,850 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.

$$\#97 \text{ _____ Lots (or EDUs) X } \$50.00 = \$ 4,850 \text{ _____}$$

The fee is based upon:

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

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

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

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

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

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

The fee is based upon:

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

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

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

SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
SECTION 2.0 PLANNING REVIEW

SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
COMPONENT 4A: MUNICIPAL PLANNING REVIEW



**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

City's Edge

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


1. Date plan received by municipal planning agency. 12-8-17

2. Date review completed by agency. 12-8-17

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

Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. Is there a municipal comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101, <i>et seq.</i>)?
<input type="checkbox"/>	<input type="checkbox"/>	2. Is this proposal consistent with the comprehensive plan for land use? If no, describe the inconsistencies _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. Is this proposal consistent with the use, development, and protection of water resources? If no, describe the inconsistencies _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Is this proposal consistent with municipal land use planning relative to Prime Agricultural Land Preservation?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. Does this project propose encroachments, obstructions, or dams that will affect wetlands? If yes, describe impacts _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Will any known historical or archaeological resources be impacted by this project? If yes, describe impacts _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	7. Will any known endangered or threatened species of plant or animal be impacted by this project? If yes, describe impacts _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. Is there a municipal zoning ordinance?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	9. Is this proposal consistent with the ordinance? If no, describe the inconsistencies <u>in review</u>
<input checked="" type="checkbox"/>	<input 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>in 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>Joshua Lippert</u>		
Title: <u>Senior Environmental Planner</u>		
Signature: _____  _____ <small>Digitally signed by Joshua Lippert DN: cn=Joshua Lippert, o=City of Pittsburgh, ou=Department of Education and Professional Development, c=US Date: 2017.12.08 15:09:52 -0500</small>		
Date: <u>12-8-17</u>		
Name of Municipal Planning Agency: <u>City of Pittsburgh</u>		
Address <u>200 Ross Street Pittsburgh, PA 15219</u>		
Telephone Number: <u>412-255-2200</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
CITY'S EDGE
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

City's Edge - City of Pittsburgh

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

1. Date plan received by county or joint-county health department. February 23, 2018

Agency name Allegheny County Health Department (ACHD)

2. Date review completed by agency February 26, 2018

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

Yes No

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

If no, what are the inconsistencies? _____

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

If yes, describe _____

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

If yes, describe _____

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

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

Name: Deborah Williamson, PE

Title: Environmental Health Engineer III

Signature:

Date: February 26, 2018

Name of County Health Department: ACHD

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

Telephone Number: 412-578-8046

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

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

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

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

COUNTY OF



ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

February 26, 2018

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

**RE: SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
CITY OF PITTSBURGH**

Dear Mr. Cenna,

Enclosed is a signed copy of Component 4C, County or Joint County Health Department Review, for the above-referenced development located at 1400, 1440, 1450, and 1454 Colwell Street. This Planning Module Component was received on February 23, 2018. The project proposes the following:

Project Description:	Mixed use development to include a restaurant, office, commercial space, apartments and a parking garage
Sewage Flow:	38,440 GPD
Conveyance:	PWSA collection system to POC M-05 to the Monongahela River interceptor
Sewer's Owner:	PWSA and ALCOSAN
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. In addition, it should be noted that the approval of this sewage facilities planning module does not include approval of pipe size and/or type. Approval for pipe size and/or type must be obtained by filing a specific plumbing plan with the ACHD's Plumbing Section. If you should have any questions relative to ACHD's plumbing requirements, please contact Andrew Grese, Plumbing Program Manager at 412-578-7934.

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

Sincerely,

Deborah Williamson, PE
Environmental Health Engineer III
Water Pollution Control & Solid Waste Management

Enclosure

cc: Thomas Flanagan, PA Department of Environmental Protection w/attachment
Andrew Grese, ACHD w/attachment



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

PUBLIC DRINKING WATER AND WASTE MANAGEMENT PROGRAM
3901 PENN AVENUE • BUILDING 5 • PITTSBURGH, PA 15224-1318
PHONE: 412.578.8040 • FAX: 412.578.8053 • WWW.ACHD.NET

**SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
SECTION 3.0 REFERENCES**

**SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
EXHIBITS**

SITE



Scale: NTS

CITY'S EDGE

HTA # 12454-1

FIGURE 1

U.S.G.S. SITE LOCATION MAP
PITTSBURGH EAST, PA QUADRANGLE



HAMPTON TECHNICAL ASSOCIATES, INC.

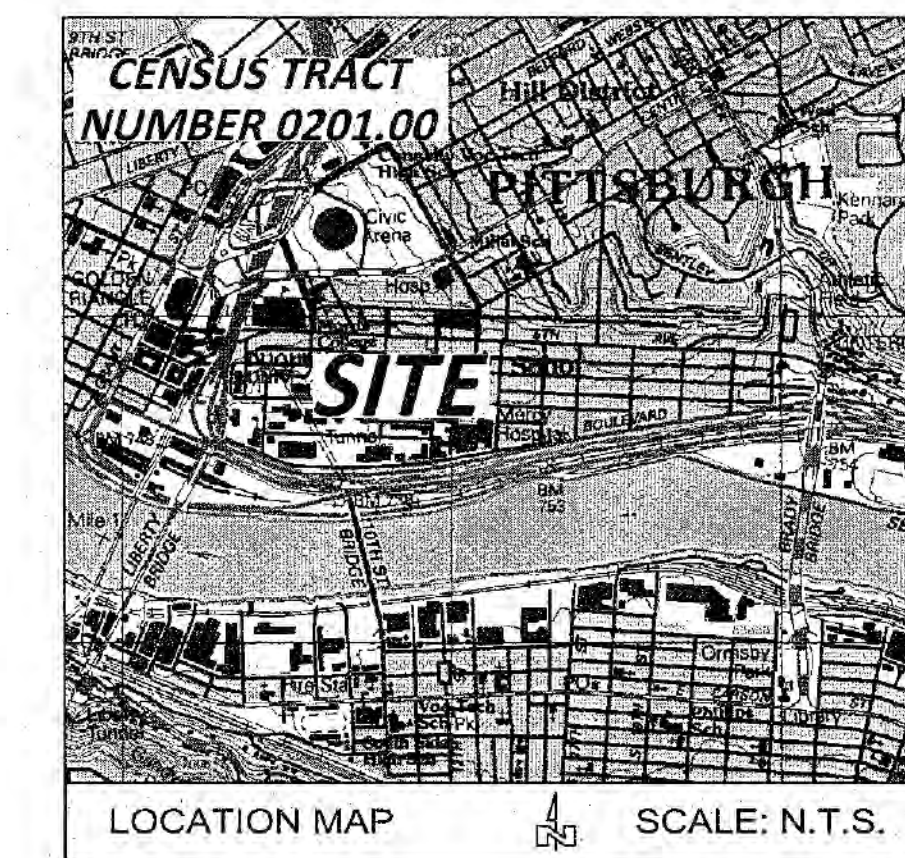
Engineering Land Surveyors

CORPORATE OFFICE

**35 Wilson Street – Suite 201
Pittsburgh, PA 15223**



**SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
DRAWINGS**



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

PAIA P.O.C.S SERIAL NUMBER
SYSTEM INC. 20170542109
1-800-242-1776

SEWER TAP TABULATIONS	
1	EXISTING TAP
1	EXISTING TAPS PROPOSED FOR TERMINATION
0	EXISTING WYE TAP PROPOSED FOR USE
4	NEW TAPS PROPOSED
4	TAPS PROPOSED TOTAL

WATER TAP TABULATIONS	
0	EXISTING TAP
0	EXISTING TAPS PROPOSED FOR TERMINATION
0	EXISTING WYE TAP PROPOSED FOR USE
2	NEW TAPS PROPOSED
2	TAPS PROPOSED TOTAL

TAP-IN NOTES:

1. ALL TAP-IN TO BE COMPLETED IN ACCORDANCE WITH PWSA STANDARDS PER THEIR PROCEDURE MANUAL FOR DEVELOPERS DATED JANUARY 2018.
2. ALL PLUMBING TO BE COMPLETED IN ACCORDANCE WITH ALLEGHENY COUNTY PLUMBING CODE.
3. REFER TO PWSA PRIVATE CONSTRUCTION PLANS FOR WATER LATERAL LOCATIONS.
4. REFER TO DUQUESNE LIGHT DRAWING FOR REMOVAL AND RELOCATION OF ELECTRIC UTILITIES.



HAMPTON
TECHNICAL ASSOCIATES, INC.
ENGINEERING LAND SURVEYORS
ESTABLISHED 1960
www.Hampton-Technical.com
email@hampton-technical.com

Corporate Office
Elite 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
Venezia, PA 16099
PHONE: (724) 625-4844
FAX: (724) 625-4549

Professional's Seal

NOT FOR CONSTRUCTION

Project Name

City's Edge

Project Number

17005

Issue Dates

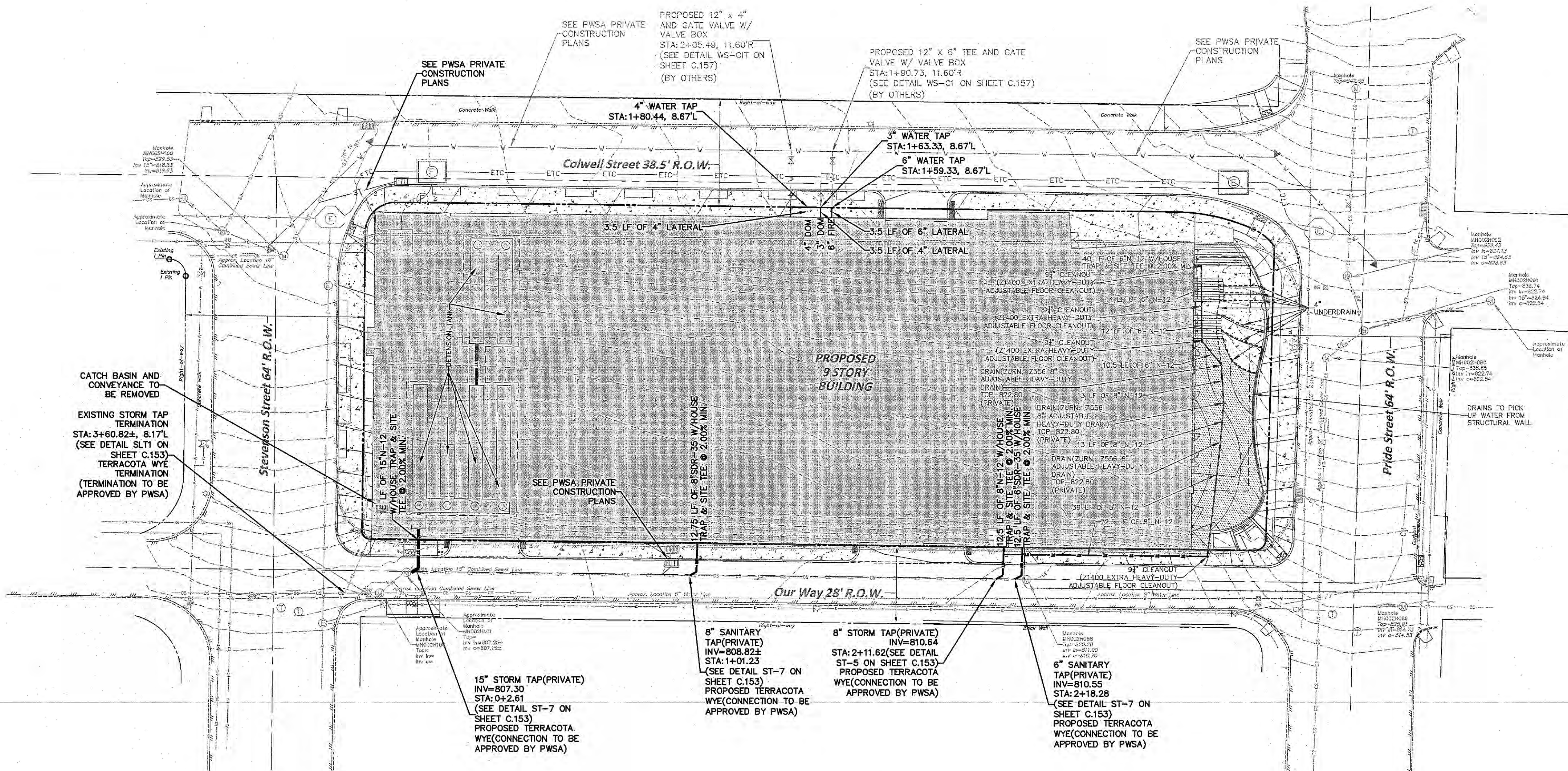
2.2018 SFFM Book

Drawing Title

Sewage Facilities Planning
Module Plan

Sheet Number

SFP



CATCH BASIN AND CONVEYANCE TO BE REMOVED

EXISTING STORM TAP TERMINATION STA: 3+60.82±, 8.17'L (SEE DETAIL SLT1 ON SHEET C.153)

TERRACOTA WYE TERMINATION (TERMINATION TO BE APPROVED BY PWSA)

SEE PWSA PRIVATE CONSTRUCTION PLANS

PROPOSED 12" x 4" AND GATE VALVE W/ VALVE BOX STA: 1+80.44, 11.60'R (SEE DETAIL WS-CIT ON SHEET C.157) (BY OTHERS)

PROPOSED 12" x 6" TEE AND GATE VALVE W/ VALVE BOX STA: 1+90.73, 11.60'R (SEE DETAIL WS-C1 ON SHEET C.157) (BY OTHERS)

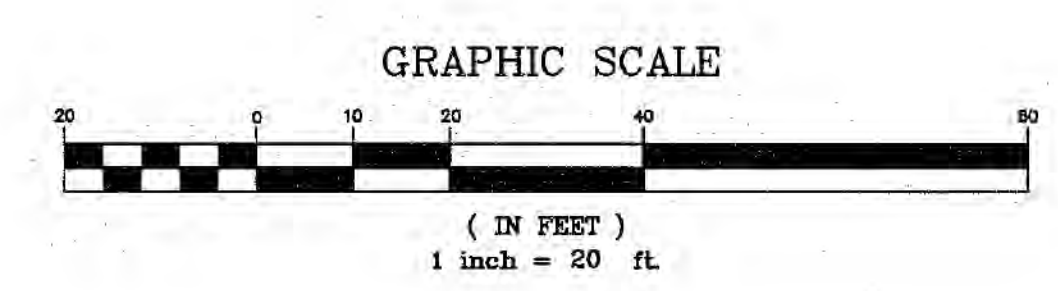
SEE PWSA PRIVATE CONSTRUCTION PLANS

15" STORM TAP (PRIVATE) INV=807.30 STA: 0+2.61 (SEE DETAIL ST-7 ON SHEET C.153) PROPOSED TERRACOTA WYE (CONNECTION TO BE APPROVED BY PWSA)

8" SANITARY TAP (PRIVATE) INV=808.82± STA: 1+01.23 (SEE DETAIL ST-7 ON SHEET C.153) PROPOSED TERRACOTA WYE (CONNECTION TO BE APPROVED BY PWSA)

8" STORM TAP (PRIVATE) INV=810.64 STA: 2+11.62 (SEE DETAIL ST-5 ON SHEET C.153) PROPOSED TERRACOTA WYE (CONNECTION TO BE APPROVED BY PWSA)

6" SANITARY TAP (PRIVATE) INV=810.55 STA: 2+18.28 (SEE DETAIL ST-7 ON SHEET C.153) PROPOSED TERRACOTA WYE (CONNECTION TO BE APPROVED BY PWSA)



HYDRANT FLOW TEST DATA
(REQUIRED FOR TAPS LARGER THAN 1-INCH)
Date of Test 10-16-2017 Hydrant Permit Number: 17-136
Test performed by: Kevin Kelso - Preferred Inspection Testing Maintenance

HYDRANT NUMBER	FLOW HYDRANT	PRESSURE HYDRANT
	A757	A756
LOCATION	Colwell Street and Res Street	Colwell Street and Crawford Street
STATIC PRESSURE (psi)	-	110 psi
RESIDUAL PRESSURE (psi)	-	105 psi
FLOW OBSERVED (gpm)	1,375 gpm	-

Fire Protection Demands:

Sprinkler System Peak Demand: 1000 GPM 100 PSI

Inside Hose Demand: 750 GPM

Outside Hose Demand: 0 GPM

Domestic System Peak Demand: 300 GPM

Private Fire Hydrant Demands: - GPM

FLOOD INFORMATION
ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

THE PITTSBURGH WATER AND SEWER AUTHORITY

***APPROVAL FOR:**

NEW WATER TAP, BACKFLOW PREVENTOR, AND METER INSTALLATION

DECREASE IN FLOW AT EXISTING SEWER AND WATER CONNECTION

NEW SANITARY AND/OR STORM SEWER TAP

SEWER TAP TERMINATION

WATER TAP TERMINATION

DISCLAIMER: Signature approval by PWSA is for the physical connections 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.

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

Date _____

Project Coordinator/Project Management Engineer/Reviewer _____

Approval _____ Date _____

Deputy Director of Engineering _____

Manager of Development Services _____

Director of Field Services _____

ON OCTOBER 20, 2017, THE FOLLOWING ADDRESS(ES) HAVE BEEN APPROVED BY THE CITY OF PITTSBURGH ADDRESSING COMMITTEE.

227 PRIDE STREET, 15219 (RESTAURANT)
231 PRIDE STREET, 15219 (BUSINESS INCUBATOR)
235 PRIDE STREET, 15219 (URGENT CARE/PHARMACY)
1400 COLWELL STREET, 15219 (MECHANICAL/ELECTRIC EQUIPMENT ACCESS)
1440 COLWELL STREET, 15219 (PARKING GARAGE)
1450 COLWELL STREET, 15219 (RESIDENTIAL LOBBY ENTRANCE)
1454 COLWELL STREET, 15219 (COMMERCIAL SPACE ENTRANCE)
1437 OUR WAY, 15219 (LOADING DOCK)
1443 OUR WAY, 15219 (SERVICE CORRIDOR ENTRANCE)

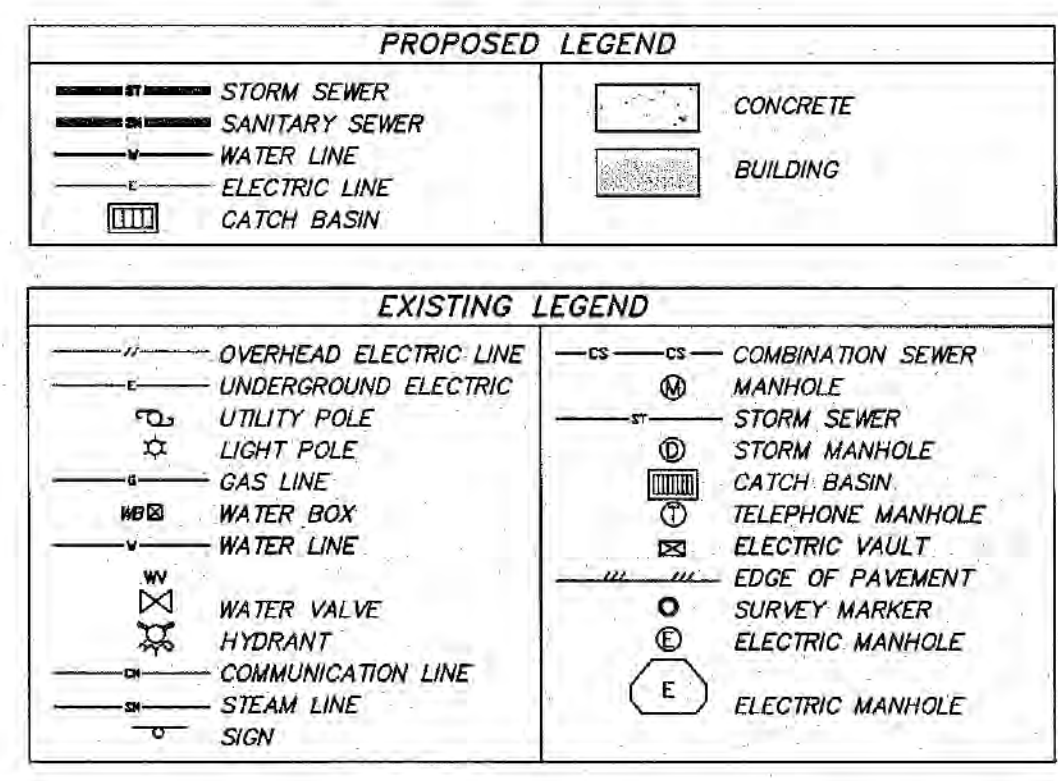
MIDPOINT GROUP OF COMPANIES, INC.

CITY'S EDGE TOWER
1400, 1440, 1450 & 1454 COLWELL STREET
227, 231 & 235 PRIDE STREET
1437 & 1443 OUR WAY
PITTSBURGH, PA 15219

SCALE: 1"=20' SHEET ACCESSION NO. C- _____
DATE: 12-18-2017 1 OF 2 CASE NO. _____

WATER AND SEWER FLOW DATA

WATER CONSUMPTION	38,440 GPD
SANITARY FLOW	38,440 GPD
STORM FLOW	4,959 CFS
PLANNING MODULE NUMBER (ASSIGNED BY PWSA)	17103.76
PADEP APPROVAL DATE (ASSIGNED BY PWSA)	



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 15, 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 BBI, call (412) 255-2181.

**SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
APPENDICES**

SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
APPENDIX A: AVAILABILITY OF WATER SUPPLY



Pittsburgh
Water & Sewer
Authority

December 8, 2017

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

**RE: Water and Sewer Availability
Midpoint Group / City Edge
1400, 1440, 1450 & 1454 Colwell Street - 15219**

Dear Mr. Cenna:

In response to your inquiry on 12/1/2017 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) 255-0841. Thank you.

Sincerely,

A handwritten signature in blue ink that reads "Michelle E. Carney".

Michelle E. Carney
Engineering Technician III

MEC

cc: PWSA File

Penn Liberty Plaza I
1200 Penn Avenue
Pittsburgh PA 15222

info@pgh2o.com
T 412.255.2423
F 412.255.2475

www.pgh2o.com
 @pgh2o

Customer Service /
Emergencies:
412.255.2423



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.

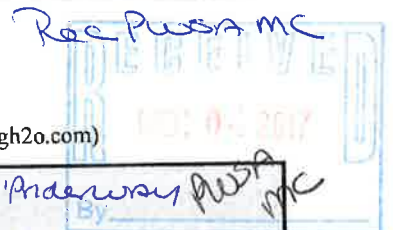
This request form is required for all of the following types of development. (Please note that the term "sewer" refers to sanitary sewers, combined sewers, and storm sewers.)

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:	Midpant Group of Companies, Inc.		
Address of Property:	1400, 1440, 1450 & 1454 Colwell St, 3rd Ward		15219
Proposed Use of Site:	Mixed Use		
Closest street intersection to the property:	Colwell St, Pride St, Stevenson St, + Our Way		
Requestor Name:	TOM CENNA - Humphreys Tech Assoc.	Date of Request:	12/1/17
Requestor Address:	35 Wilson St., Pgh, PA 15223		
Requestor Phone Number:	412-781-9660		

Please submit the completed form to:

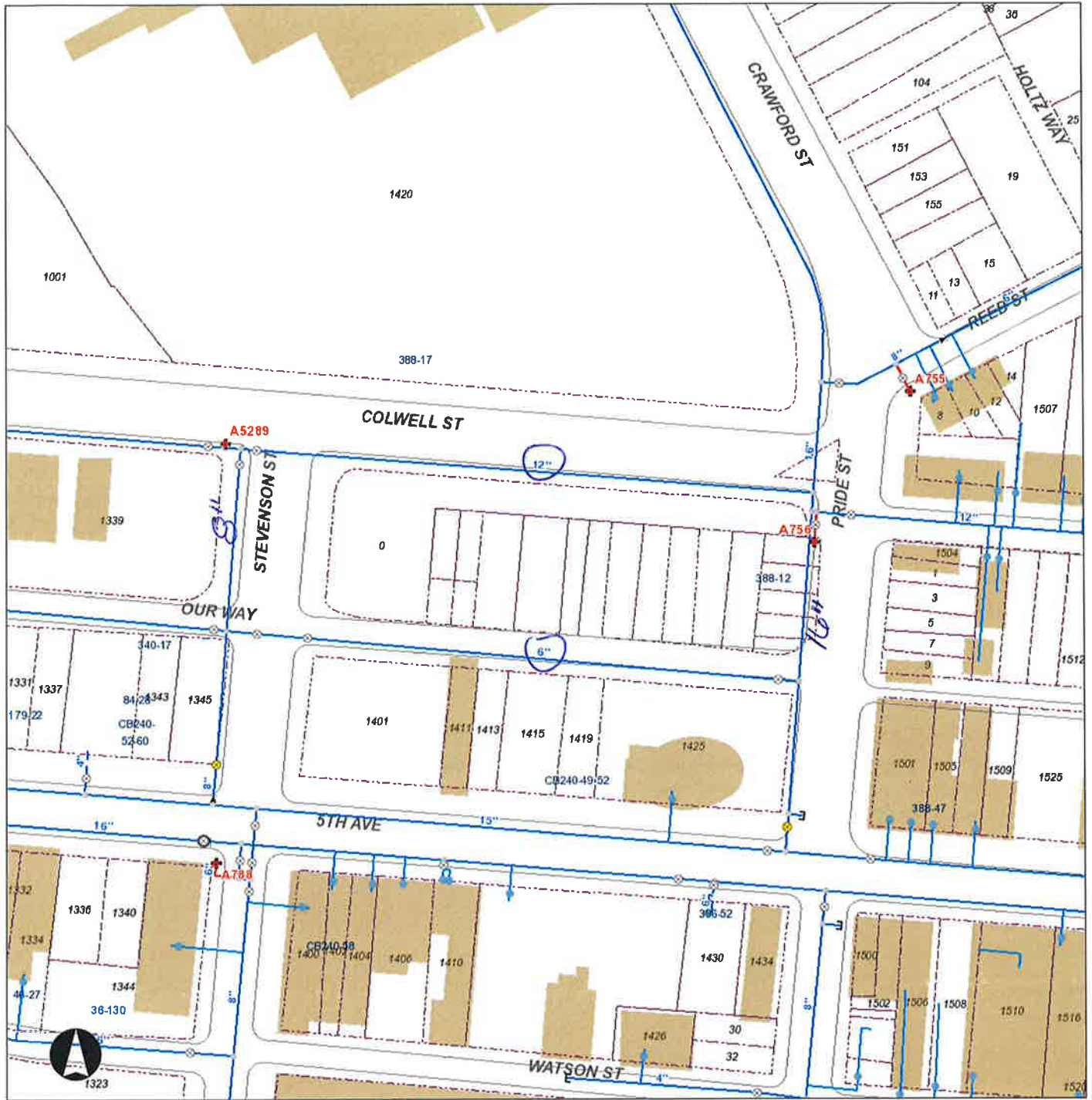
Pittsburgh Water and Sewer Authority
 Engineering and Construction Division
 1200 Penn Avenue
 Pittsburgh, PA 15222
 Attn: Ms. Michelle Carney (mcarney@pgh2o.com)



PWSA Use Only:		12" Colwell St ; 16" Our Way PWSA MC	
PWSA Water Service Available:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Size / Location:	6" Our way ; 8" Stevenson st
PWSA Sewer Service Available:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sewer Size / Location:	15" 30" our way 18" Colwell St ; 36" Pride 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:		N/A	
PWSA Approval Authority:	Signature and Date	Michelle Carney 12-8-2017	
	Name (printed)	Michelle Carney	
	Title	Engineering Tech 3	

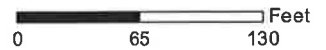
Disclaimer: The information provided by PWSA does not guarantee capacity of the PWSA-owned water and/or sewer lines to satisfy the needs of the proposed development. The permit application process required by PWSA evaluates the water demand and sewer flows of the development, as provided by the Applicant,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

Mid Point Group / City Edge



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 therefore is assumed by the City or the PWSA.

Date: 12/8/2017

SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
APPENDIX B: SEWAGE AVAILABILITY OF CAPACITY & ALLOCATION



Pittsburgh
Water & Sewer
Authority

December 8, 2017

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

**RE: Water and Sewer Availability
Midpoint Group / City Edge
1400, 1440, 1450 & 1454 Colwell Street - 15219**

Dear Mr. Cenna:

In response to your inquiry on 12/1/2017 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) 255-0841. Thank you.

Sincerely,

A handwritten signature in blue ink that reads 'Michelle E. Carney'.

Michelle E. Carney
Engineering Technician III

MEC

cc: PWSA File

Penn Liberty Plaza I
1200 Penn Avenue
Pittsburgh PA 15222

info@pgh2o.com
T 412.255.2423
F 412.255.2475

www.pgh2o.com
 @pgh2o

Customer Service /
Emergencies:
412.255.2423



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.

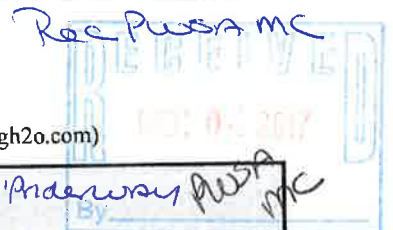
This request form is required for all of the following types of development. (Please note that the term "sewer" refers to sanitary sewers, combined sewers, and storm sewers.)

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:	Midpant Group of Companies, Inc.		
Address of Property:	1400, 1440, 1450 & 1454 Colwell St, 3rd Ward		15219
Proposed Use of Site:	Mixed Use		
Closest street intersection to the property:	Colwell St, Pride St, Stevenson St, + Our Way		
Requestor Name:	TOM CENNA - Humphreys Tech Assoc.	Date of Request:	12/1/17
Requestor Address:	35 Wilson St., Pgh, PA 15223		
Requestor Phone Number:	412-781-9660		

Please submit the completed form to:

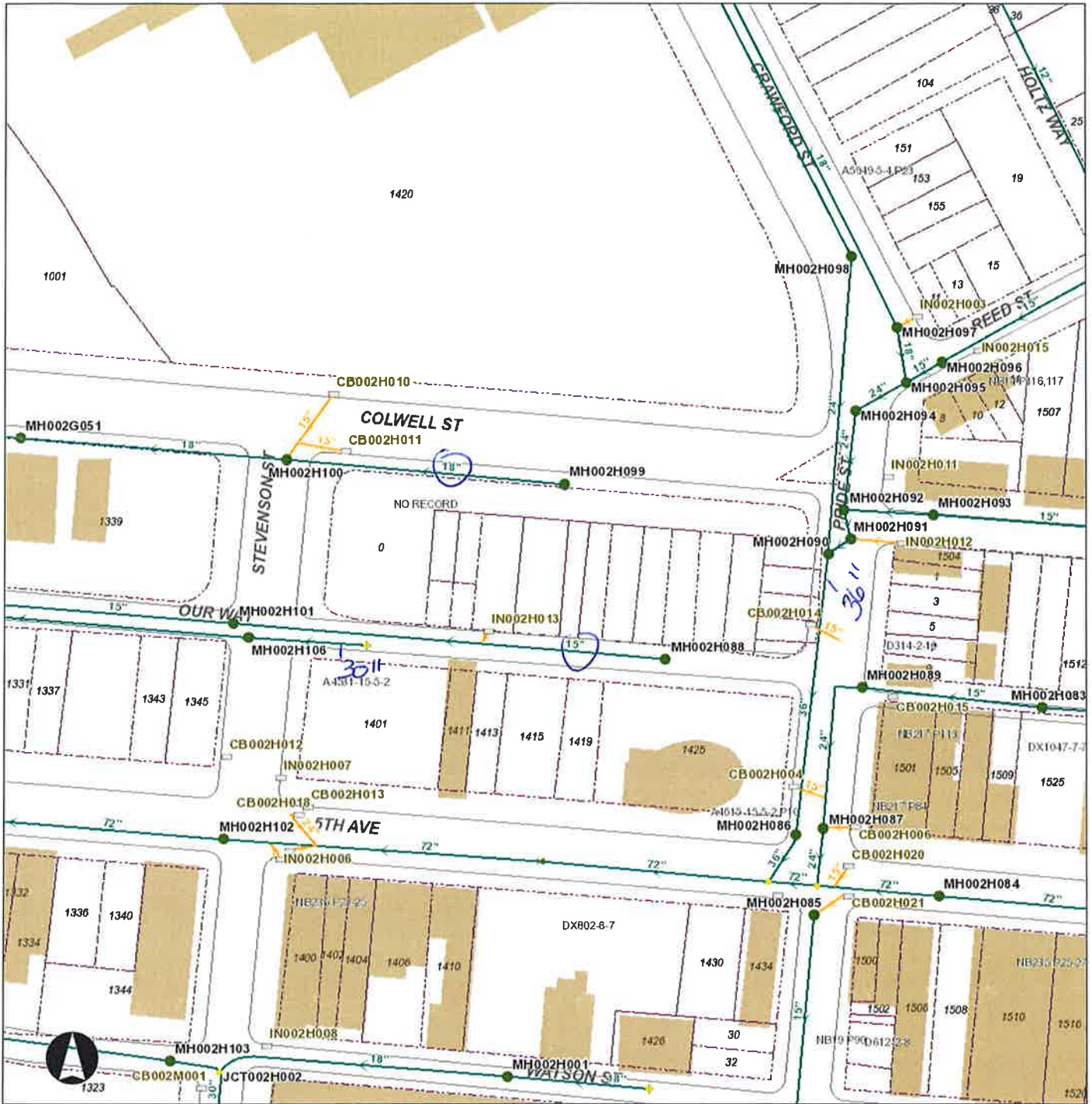
Pittsburgh Water and Sewer Authority
 Engineering and Construction Division
 1200 Penn Avenue
 Pittsburgh, PA 15222
 Attn: Ms. Michelle Carney (mcarney@pgh2o.com)



PWSA Use Only:		12" Colwell St ; 16" Our Way PWSA MC	
PWSA Water Service Available:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Size / Location:	6" Our way ; 8" Stevenson st
PWSA Sewer Service Available:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sewer Size / Location:	15" 30" our way 18" Colwell St ; 36" Pride 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:		N/A	
PWSA Approval Authority:	Signature and Date	Michelle Carney 12-8-2017	
	Name (printed)	Michelle Carney	
	Title	Engineering Tech 3	

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.

Mid Point Group / City Edge



Legend

- | | | |
|-------------------------|--------------------|--------------------------|
| Meter | Water Manhole | Outfall |
| Pump | Rising Main | End Cap |
| Hydrant | Supply Main | Sewer Pump Station |
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| System Valve | Distribution Main | Sanitary Sewer |
| Dividing Pressure Valve | Hydrant Branch | Storm Sewer |
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| Coupling | Junction | Sewer Force Main |
| Wash Out | Inlet | Private Sewer |
| | Private Inlet | Undefined Sewer |



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Members of the Board

Sylvia C. Wilson
Chair Person

Gregory A. Jones
Jack Shea
Rep. Harry Readshaw
John Weinstein
Corey O'Connor
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Finance & Administration*

Jan M. Oliver
*Director
Regional Conveyance*

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

Jeanne Clark
*Director
Communications*

February 26, 2018

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

**Re: City's Edge Tower – City of Pittsburgh, 3rd Ward
PA DEP Sewage Facilities Planning Module
ALCOSAN Regulator Structure M-05-00**

Dear Mr. Cenna:

We have reviewed the Component 3 Planning Module for the referenced project to be located in 3rd Ward of the City of Pittsburgh. The project will generate a peak flow of 38,440 gpd in the ALCOSAN Monongahela Interceptor and Woods Run Treatment Plant.

The capacity at the ALCOSAN M-05-00 Diversion Structure is 20.6 MGD. The monitored daily peak dry weather flow is approximately 3.26 MGD. Sufficient dry weather capacity exists for this connection. However, the ALCOSAN Monongahela Interceptor and the Woods Run Treatment Plant do not have the capacity for the flows generated by the tributary communities during wet weather periods. This limitation will be analyzed further as ALCOSAN completes its wet weather facilities plan.

ALCOSAN has completed and signed the sections required in the Component 3 module and requests that this letter be made part of the planning module submission. If you have any questions regarding this matter, please contact me at 412-732-8053.

Sincerely,

ALLEGHENY COUNTY SANITARY AUTHORITY

Shawn P. McWilliams, EIT
Civil Engineer

attachment

cc: F. Fields (w/o attachment)
D. Thornton (w/o attachment)
M. Lichte (w/o attachment)
Michelle Carney/ PWSA (w/o attachment)
T. Flanagan/ PADEP (w/o attachment)
M. Scheer/ ACHD (w/o attachment)

SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
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 ★ Valencia, PA 16059
Phone: (724) 625-4544 ★ Fax: (724) 625-4549

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

Project Narrative:

City's Edge

1400, 1440, 1450 and 1454 Colwell Street
City of Pittsburgh, Pennsylvania, 3rd Ward

General

Midpoint Group of Companies, Inc. is proposing the construction of a mixed use development that would include a restaurant, office, commercial space and apartments above a parking garage to be located at 1400, 1440, 1450 and 1454 Colwell Street in the City of Pittsburgh. The following is a synopsis of the water and sewer tapping anticipated for the project.

Water Usage

The proposed development will obtain both Domestic Water Service (DCW) and Fire Suppression Water Service (FSL) via two lateral taps to the proposed relocated 12 inch PWSA water line in Colwell St. This tap locations have been stationed on the Plan. The one six (6) inch tap will then be split to a six (6) inch Fire Suppression Line and a four (4) inch Domestic Line that will then be conveyed to the building, where both lines will be established with meter and RPZ Backflow Prevention just inside the building wall. The second four (4) inch tap will be for a Domestic Line that will then be conveyed to the building, where the line will be established with a meter and a RPZ Backflow Prevention just inside the building wall. The proposed development will also obtain a 2nd Fire Suppression Water Service (FSL) via one six (6) inch lateral tap to the existing 16 inch PWSA water line in Pride St. This tap location has been stationed on the Plan.

Sanitary Sewage Flow

Sanitary Sewage Flow from the proposed development will be routed through two (2) laterals on the south side of the building that make wye connections to an existing 15 inch PWSA Combination Sewer in Our Way. All tap locations have been stationed on the plan. Flow travels west along Our Way, where the flows then make its way to the 5th Avenue sewer main and eventually to the Monongahela River Interceptor and onto ALCOSAN for treatment.

Stormwater

The stormwater runoff flow calculations related to runoff collected on the roof of the structures at the listed addresses which will be routed through two eight (8) inch laterals on the south side of the building that will then be conveyed to the 15 inch PWSA sewer in Our Way. Flow then travels west in Our Way and then south along Stevenson Street. Flow then eventually goes to the Monongahela River Interceptor and onto ALCOSAN's Woods Run WWTP for treatment.



Corporate Office
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Phone: (724) 625-4544 ★ Fax: (724) 625-4549

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

Flow Calculations for:

City's Edge

1400, 1440, 1450 and 1454 Colwell Street
City of Pittsburgh, Pennsylvania, 3rd Ward

Midpoint Group of Companies, Inc. is proposing the construction of a mixed use development that would include a restaurant, office, commercial space and apartments above a parking garage to be located at 1400, 1440, 1450 and 1454 Colwell Street in the City of Pittsburgh. The following is a synopsis of the water and sewer tapping anticipated for the project.

City's Edge:

Anticipated Water and Sewer Consumption – 38,440 gpd

Supporting Calculations (PWSA Procedure Manual Table 2-1):

BUILDING SUMMARY (Colwell St. and Pride St.) - EXISTING

Tax Parcel 2-H-108	0 gpd
Tax Parcel 2-H-110	0 gpd
Tax Parcel 2-H-111	0 gpd
Tax Parcel 2-H-111A	0 gpd
Tax Parcel 2-H-111B	0 gpd
Tax Parcel 2-H-112	0 gpd
Tax Parcel 2-H-113	0 gpd
Tax Parcel 2-H-114	0 gpd
Tax Parcel 2-H-115	0 gpd
Tax Parcel 2-H-116	0 gpd
Tax Parcel 2-H-117	0 gpd
Tax Parcel 2-H-118	0 gpd
Tax Parcel 2-H-119	0 gpd
Tax Parcel 2-H-120	0 gpd
Tax Parcel 2-H-120-A	0 gpd
Tax Parcel 2-H-120-B	0 gpd
Tax Parcel 2-H-121-A	0 gpd
Tax Parcel 2-H-121-B	0 gpd
Tax Parcel 2-H-122	0 gpd

TOTAL 0 gpd – Water
 0 gpd – Sewer

BUILDING SUMMARY (1400, 1440, 1450, 1454 Colwell St.) - PROPOSED

Residential 28,800 gpd
Commercial 9,640 gpd

=====

TOTAL 38,440 gpd (97 EDU's) (difference=38,440 gpd) – Water
38,440 gpd (97 EDU's) (difference=38,440 gpd) – Sewer

Supporting Data

PROPOSED

1400 Colwell St. =

Mechanical/Electrical Equipment Access Calculation

TOTAL 0 gpd

PROPOSED

1440 Colwell St. =

Parking Garage Calculation

TOTAL 0 gpd

PROPOSED

1450 Colwell St. =

Residential Apartment Calculation

	1 Bedroom	2 Bedroom	3 Bedroom
3 rd FLOOR	3	2	1
4 th FLOOR	3	2	1
5 th FLOOR	5	12	2
6 th FLOOR	5	12	2
7 th FLOOR	5	12	2
8 th FLOOR	5	12	2
9 th FLOOR	4	13	2

Totals	30	65	12
	X 150 gpd = <u>4,500 gpd</u>	X 300 gpd = <u>19,500 gpd</u>	X 400 gpd = <u>4,800 gpd</u>

1 Bedroom Apartment = **4,500 gpd**
2 Bedroom Apartment = **19,500 gpd**
3 Bedroom Apartment = **4,800 gpd**

TOTAL 28,800 gpd

PROPOSED

1454 Colwell St. =

Commercial Space Calculation

1st FLOOR – RESTAURANT – 2,380 sf/15 sf per patron = 159 patrons

159 patrons @ 10 gpd/per person = 1,590 gpd

employees = kitchen area included in calculation above

1,590 gpd X 3 turnovers per seat = **4,770 gpd**

1st FLOOR – OFFICE – 675 sf/100 sf per office person X 10 gpd/per person = **70 gpd**

1st FLOOR – RETAIL PHARMACY – 3,610 sf

2 Water Closets (400 gpd) + 1 Urinal (300 gpd) + 2 Sinks (200 gpd) = **1,500 gpd**

1st FLOOR TOTAL: **6,340 gpd**

2nd FLOOR – PFHA ROOM – 921 sf

3 Water Closets (400 gpd) + 1 Urinal (300 gpd) + 2 Sinks (200 gpd) = **1,900 gpd**

2nd FLOOR – AFTER SCHOOL – 545 sf/35 sf per pers. X 20 gpd/per pers. = **320 gpd**

2nd FLOOR – DAYCARE – 2,500 sf/35 sf per person X 15 gpd/per person = **1,080 gpd**

2nd FLOOR TOTAL **3,300 gpd**

**City’s Edge:
Proposed Stormwater Runoff (4.959 cfs)**

Pre Development Runoff

Total Drainage area = (39,204 sf) 0.900 acres = A_t

Total Impervious area = (29,230 sf) 0.671 acres = A_i

Total Pervious area = (9,974 sf) 0.229 acres = A_p

Impervious coefficient = 0.95 = C_i

Pervious coefficient = 0.45 = C_p

(Impervious area * C_i) / Total Drainage area = C_{avg}

(0.671 * 0.95) / 0.900 = 0.71

(Pervious area * C_p) / Total Drainage area = C_{avg}

(0.229 * 0.45) / 0.900 = 0.01

$\sum C_{avg} = 0.72 = \text{weighted coefficient } = C$

The peak discharge Q is equal to the weighted coefficient C (0.72), based on the characteristics of the surface; multiplied by the rainfall intensity I (5.8 in/hr); multiplied by the total drainage area (0.900 acres).

Thus Q = (0.72)*(5.8)*(0.900) = **3.758 (25-year storm intensity event)**

The existing runoff is 3.758 cfs

Developed Runoff

Total Drainage area = (39,204 sf) 0.900 acres = A_t

Total Impervious area = (39,204 sf) 0.900 acres = A_i

Total Pervious area = 0 acres = A_p

Impervious coefficient = 0.95 = C_i

Pervious coefficient = 0.45 = C_p

(Impervious area * C_i) / Total Drainage area = C_{avg}

$(0.900 * 0.95) / 0.900 = 0.95$

(Pervious area * C_p) / Total Drainage area = C_{avg}

$(0.0 * 0.45) / 0.900 = 0.0$

$\sum C_{avg} = 0.95 = \text{weighted coefficient} = C$

The peak discharge Q is equal to the weighted coefficient C (0.95), based on the characteristics of the surface; multiplied by the rainfall intensity I (5.8 in/hr); multiplied by the total drainage area (0.900 acres). Thus $Q = (0.95)*(5.8)*(0.900) = 4.959 \text{ cfs. (25-year storm intensity event)}$

The proposed runoff is 4.959 cfs

Total anticipated sewage flow for the Development is **38,440 GPD.***

*Note: Existing Sanitary flows of **0 GPD** means and increase of **38,440 GPD**

Sanitary Sewer Flows PWSA Main Sewer Line
(Capacity of PWSA Sewer line at public sewer line tap)

The dry weather depth of flow in the 15-inch PWSA combined sewer line running in Our Way was observed to have zero inches of flow depth. For the purposes of these calculations, a dry weather flow depth of one (1) inch was assumed. The slope of the sewer line was calculated by using the inverts of manhole MH002H088 and MH002H106, which are the manholes directly upstream and downstream of the proposed tap locations. The average slope was found to be 1.56 (%) percent between the manholes. Flow Calculations for the PWSA main Sewer line are found below.

Design Peak Flow Calculations

$$Q = \left(\frac{1.486}{\eta} \right) * A * R^{2/3} * S^{1/2}$$

$$A = \left(\left(\frac{d}{12} \right) / 2 \right)^2 * \pi$$

$$R^{2/3} = \left(A / \left(\left(\frac{d}{12} \right) * \pi \right) \right)^{2/3}$$

$$S^{1/2} = (s)^{1/2}$$

Pipe

Q = Flow (cfs)

n = Manning's n Value = 0.016

d = Pipe diameter = 15 inches

s = pipe slope = 0.0156 (ft/ft)

$$A = \left(\left(\frac{15}{12} \right) / 2 \right)^2 * 3.1416 = 1.2272$$

$$R^{2/3} = \left(1.227 / \left(\left(\frac{15}{12} \right) * 3.1416 \right) \right)^{2/3} = 0.460$$

$$S^{1/2} = (0.0156)^{1/2} = 0.1249$$

$$Q = \left(\frac{1.486}{0.016} \right) * 1.227 * 0.460 * 0.12 = 6.547 \text{ cfs}$$

$$6.547 * 86,400 * 7.4805 = 4,231,425 \text{ gpd}$$

Design Peak Design Flow

Design Average Flow Calculations

$$Q_{avg} = \frac{Q_{peak}}{3.5}$$

$$Q_{avg} = \frac{4,231,425}{3.5} = 1,208,979 \text{ gpd} \quad \text{Average Design Flow}$$

Present Average Flow Calculations

D = pipe Diameter = 15 inches

n = Manning's n Value = 0.016

S = pipe slope = 0.0156 (ft/ft)

$$r = \frac{D}{2} = \frac{15}{2} = 7.5 \text{ inches} = 0.63 \text{ ft}$$

$$h = y = 0.0833 \text{ foot}$$

$$\theta = 2 * \arccos\left[\frac{(r-h)}{r}\right] = 2 * \arccos\left[\frac{(0.63-0.0833)}{0.63}\right] = 1.040 \text{ radians}$$

$$A = r^2 \left(\frac{\theta - \sin \theta}{2} \right) = (0.63)^2 * \left(\frac{(1.040 - \sin(1.040))}{2} \right) = 0.0352 \text{ ft}^2$$

$$P = r\theta = (0.63) * (1.040) = 0.655$$

$$R = \frac{A}{P} = \frac{0.0352}{0.655} = 0.0537 \text{ ft}$$

$$Q = \left(\frac{1.486}{\eta} \right) * A * R^{2/3} * S^{1/2} = \left(\frac{1.486}{0.016} \right) * 0.0352 * (0.0537)^{2/3} * (0.0156)^{1/2} = 0.0581 \text{ cfs}$$

$$0.0581 * 86,400 * 7.4805 = 37,563 \text{ gpd} \quad \text{Present Average Flow}$$

Present Peak Flow Calculations

$$Q_{Peak} = Q_{avg} * 3.5$$

$$Q_{Peak} = 37,563 * 3.5 = 131,472 \text{ gpd} \quad \text{Present Peak Flow}$$

Projected Average Flow (5 years) Calculations

$$Q_{Pavg} = (Q_{avg} + Q_{project}) * 1.05$$

$$Q_{Pavg} = (37,563 + 38,440) * 1.05 = 79,803 \text{ gpd} \text{ Projected Average Flow}$$

Projected Peak Flow (5 years) Calculations

$$Q_{PPeak} = (Q_{avg} + Q_{project}) * 3.5 * 1.05$$

$$Q_{PPeak} = (37,563 + 38,440) * 3.5 * 1.05 = 279,311 \text{ gpd} \text{ Projected Peak Flow}$$



SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
APPENDIX D: PROPOSED WASTEWATER DISPOSAL FACILITIES

Appendix D
Proposed Wastewater Disposal Facilities

1. Collection System

The City's Edge development two (2) storm and two (2) sanitary taps into the existing public sewage collection system along Our Way. The proposed taps tie into an existing 15" combination sewer along Our Way between PWSA manholes MH002H106 and MH002H088.

2. Wastewater Treatment Facility

The City's Edge 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 development of land. The City's Edge development consists of roughly 0.74 acres. When fully developed, this mixed use development will contain apartments, commercial space, office space and a parking garage.

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 City's Edge 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.

TABLE D-1

**The City's Edge development
SEWAGE FACILITIES PLANNING MODULE**

PLOT PLAN

Information Requested	Plot Plan (Drawing SFP)
a. Existing and proposed buildings	Existing and proposed building in the project area are shown on Drawing SFP.
b. Lot lines and lot sizes	Drawing SFP shows the overall view of the proposed development. Refer to Appendix C for project narrative.
c. Adjacent lots	Drawing SFP shows adjacent properties.
d. Remainder of tract	Not Applicable.
e. Existing/proposed sewage facilities	The existing private collection system is identified on Drawing SFP.
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.
g. Existing and proposed water supplies	The existing water main and taps are shown on Drawing SFP.
h. Existing/proposed right-of-way	Not Applicable –
i. Existing/proposed buildings, streets, roadways, access roads, etc.	Drawing SFP shows listed items.
j. Designated recreational/open area	Not applicable..
k. Wetlands	No wetlands have been identified within the City's Edge 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 shows existing utility lines.
o. Orientation to North	Shown on Drawing SFP.
p. Location of all site Testing Activities	Not Applicable.
q. Soil Type Boundaries	Shown on Drawing SFP. UCD (Urban Land - Culleoka complex)
r. Topographic lines/elevations	Shown on Drawing SFP.

SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
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.

SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
APPENDIX F: ALTERNATIVE SEWAGE FACILITIES ANALYSIS

Appendix F **Alternative Sewage Facilities Analysis**

There are several options for providing sewage services to the proposed City's Edge Plan. Option 1 is to connect to an existing 15 inch combination sewer with a 6, 8, and 15-inch pipe from an existing stub. Currently, there is a 15-inch line running down Our Way. Our four (4) taps would be located between MH002H106 and MH002H088. The Pittsburgh Water and Sewer Authority (PWSA) owns and operates the lines. PWSA has been consulted about providing sewage services to the project for this Option and it 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.

1. The chosen disposal method is Option 1, an ultimate method, and that is to tap-in to an existing 15-inch combination sewer extension. The flow for the proposed development is 38,440 GPD or 97 EDUs. Zero (0) EDUs are existing.
2. The surrounding properties are zoned for Uptown Public Realm uses, which is the same as our site, 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 15 inch combination collection system extension to serve the development would serve the short and long-term needs because it can convey the required 38,440 GPD (97 EDUs), to meet the full development of the site. There is no existing EDUs in use at the project 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 and proposed collection system will be owned and operated by PWSA.

SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
APPENDIX G: PNHP CORRESPONDENCE

1. PROJECT INFORMATION

Project Name: **City's Edge**

Date of Review: **11/17/2017 01:37:17 PM**

Project Category: **Development, New commercial/industrial development (store, gas station, factory)**

Project Area: **1.50 acres**

County(s): **Allegheny**

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

ZIP Code: **15219**

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

Watersheds HUC 8: **Lower Monongahela**

Watersheds HUC 12: **Streets Run-Monongahela River**

Decimal Degrees: **40.439152, -79.985723**

Degrees Minutes Seconds: **40° 26' 20.9454" N, 79° 59' 8.6041" 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.

City's Edge

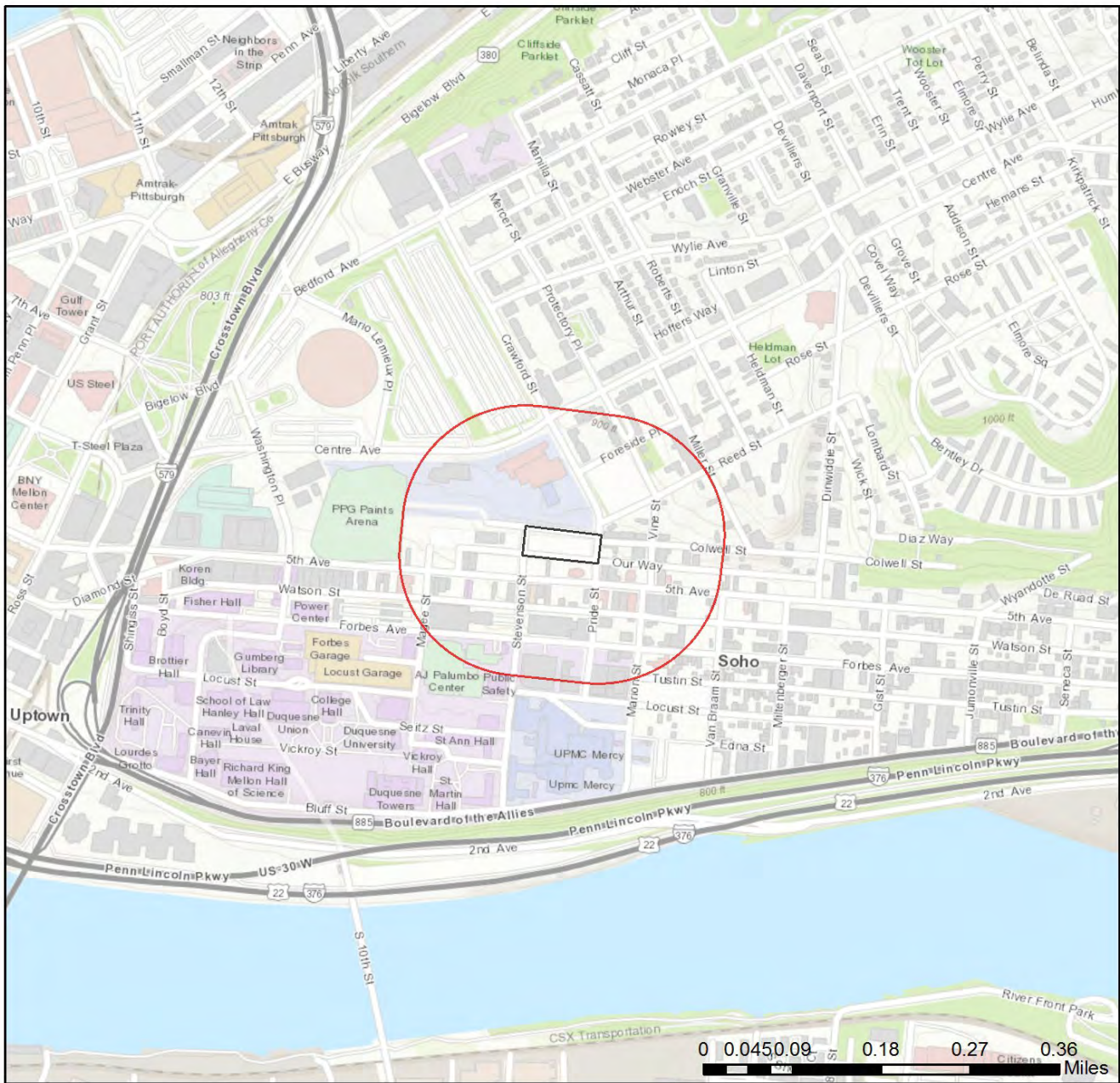


- Project Boundary
- Buffered Project Boundary



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
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City's Edge



- 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



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: DAVID SWAB
Company/Business Name: HAMPTON TECHNICAL ASSOC., INC.
Address: ETNA TECHNICAL CENTER, #201, 35 WILSON STREET
City, State, Zip: PITTSBURGH PA 15223
Phone: (412) 781-9660 Fax: (412) 781-5904
Email: davids@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

11/18/2017

date

**SEWAGE FACILITIES PLANNING MODULE
CITY'S EDGE
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.

