1 Allegheny Square, Suite 402
Pittsburgh, PA 15212
724-638-8500

July 23, 2025

City of Pittsburgh
Department of City Planning
412 Boulevard of the Allies, Suite 201
Pittsburgh, PA 15219

Project: New Student Center
4720 Fifth Avenue
Allegheny County
Pittsburgh, PA 15213

Project Number: PAD230019.00

Client: Central Catholic High School
4720 Fifth Avenue
Allegheny County
Pittsburgh, PA 15213

Date: July 23, 2025

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alcosan
allegheny county sanitary authority

May 21, 2025

Shannon Smith, P.E.
Bohler
1 Allegheny Square, Suite 402
Pittsburgh, PA 15212

Re: New Student Center
4720 Fifth Avenue, City of Pittsburgh, Pennsylvania
PA DEP Sewage Facilities Planning Module
ALCOSAN Direct Connection M-29

Dear Ms. Smith:

We have reviewed the Component 3 Planning Module for the referenced project to be located along 4720 Fifth Avenue in the City of Pittsburgh, Allegheny County. The project will generate a peak flow of 3,000 gpd in the ALCOSAN Monongahela River Interceptor and Woods Run Treatment Plant.

The capacity at the M-29 Interceptor Structure is approximately 44.9 MGD. The monitored peak dry weather flow is approximately 6.83 MGD. Dry weather capacity exists for this connection. However, the ALCOSAN Monongahela River Interceptor and the Woods Run Treatment Plant does not have the capacity for the flows generated by tributary communities during wet weather periods. This limitation will be addressed as ALCOSAN implements its Clean Water 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 412-742-1530.

Sincerely,

ALLEGHENY COUNTY SANITARY AUTHORITY

Steven Bristol, E.I.T.
Project Engineer II

Attachment

cc: Christina Dean (w/o attachment)
Leslie Sanford (w/o attachment)
Michael Lichte (w/o attachment)
Shawn McWilliams (w/o attachment)
Zach Rinker, PW(w/o attachment)
Mahbuba Iasmin/ PADEP (w/o attachment)
Issa Tijani/ ACHD (w/o attachment)

COUNTY OF ALLEGHENY

SARA INNAMORATO
COUNTY EXECUTIVE

July 10, 2025

Shannon Smith, PM
Bohler
1, Allegheny Square, Suite 402
Pittsburgh, PA 15212

RE: SEWAGE FACILITIES PLANNING MODULE
Central Catholic High School - City of Pittsburgh
Allegheny County, Pennsylvania

Dear Ms. Smith

Enclosed is a signed copy of Component 4C, County or Joint County Health Department Review, for the above-referenced development. This Planning Module Component was received on June 17, 2025, and the missing document was received on June 27, 2025. The project proposes the following:

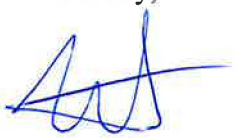
Project Description:	It involves demolishing an existing student center and rebuilding it at a bigger size, including a parking lot at the lower level. This redevelopment will include driveway installation, utilities connections, extensive landscaping and storm sewer system necessary to support the development.
Sewage Flow:	3, 000 GPD
Conveyance:	The sewage from proposed development will be conveyed by PWSA to the Monongahela River Interceptor and ultimately transported to the ALCOSAN for treatment.
Sewer's Owner:	PWSA (collection), ALCOSAN (interceptor)
Sewage Treatment Plant:	ALCOSAN

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

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 Jeffrey Czochara, 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,



Issa Tijani
Environmental Health Engineer II
Water Pollution Control & Solid Waste Management

Enclosure
cc: Regis Ryan, PA Department of Environmental Protection w/attachment
Jeffrey Czochara, ACHD w/attachment

Appendix A: Sewage Facilities Planning Module- Component 3

3800-FM-BPNPSM0353 Rev. 2/2015
Form

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Code No.

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

SEWAGE FACILITIES PLANNING MODULE

Component 3. Sewage Collection and Treatment Facilities

(Return completed module package to appropriate municipality)

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

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

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

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

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

A. PROJECT INFORMATION (See Section A of instructions)

1. Project Name: Central Catholic High School

2. Brief Project Description: Central Catholic High School, Inc. is proposing to demolish an existing student center and build a new, larger student center with a parking garage on the bottom level. The proposed redevelopment includes the installation of driveways, utilities, extensive landscaping, and storm sewer necessary to support the development. Approximately 3.28 acres will be disturbed during construction.

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

Municipality Name	County	City	Boro	Twp
City of Pittsburgh	Allegheny	☒	☐	☐

Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Clark-Baskin	Kimberly			City Clerk

Additional Individual Last Name	First Name	MI	Suffix	Title

Municipality Mailing Address Line 1	Mailing Address Line 2
510 City-County Building	414 Grant St

Address Last Line -- City	State	ZIP+4
Pittsburgh	PA	15219

Area Code + Phone + Ext.	FAX (optional)	Email (optional)
412-255-2138		kim.clark-baskin@pittsburghpa.gov

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name
Central Catholic High School

Site Location Line 1	Site Location Line 2
Central Catholic High School	4720 Fifth Avenue

Site Location Last Line -- City	State	ZIP+4	Latitude	Longitude
Pittsburgh	PA	15213	40.44680	-79.94579

Detailed Written Directions to Site: The site is located along Fifth Avenue between Devonshire Road and S Neville Street in the City of Pittsburgh's Squirrel Hill North neighborhood on lot #0052-J-00264-0000-00, in the Pittsburgh's 14th Ward.

Description of Site: Central Catholic High School proposes to demolish the existing student center and build a larger student center with a parking garage on the bottom level. The existing property (Central Catholic High School Campus) is located at 4720 Fifth Avenue, Pittsburgh, PA 15213.

Site Contact (Developer/Owner)

Last Name	First Name	MI	Suffix	Phone	Ext.
Stoessel	Matthew			412-622-6184	

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

FAX	Email
	mstoessel@centralcatholichs.com

Mailing Address Line 1	Mailing Address Line 2
Central Catholic High School	4270 Fifth Avenue

Mailing Address Last Line -- City	State	ZIP+4
Pittsburgh	PA	15213

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

Last Name	First Name	MI	Suffix
Smith	Shannon		P.E.

Title	Consulting Firm Name
Assistant Project Manager	Bohler

Mailing Address Line 1	Mailing Address Line 2
1 Allegheny Square	Suite 402

Address Last Line – City	State	ZIP+4	Country
Pittsburgh	PA	15212	United States of America

Email	Area Code + Phone	Ext.	Area Code + FAX
shannon.k.smith@bohlereng.com	724-638-8500		

E. AVAILABILITY OF DRINKING WATER SUPPLY

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

☐ Individual wells or cisterns.

☐ A proposed public water supply.

☒ An existing public water supply.

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

Name of water company: Pittsburgh Water and Sewer Authority (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 9

Connections 1

Name of:

existing collection or conveyance system S Neville Street - 30" Brick Combined Sewer

owner Pittsburgh Water & Sewer Authority

existing interceptor Monongahela Interceptor

owner Allegheny County Sanitary Authority

2. **WASTEWATER TREATMENT FACILITY**

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

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

☐ New facility ☒ Existing facility ☐ Upgrade of existing facility ☐ Expansion of existing facility

Name of existing facility ALCOSAN Wastewater Treatment Facility

NPDES Permit Number for existing facility PAC021165

Clean Streams Law Permit Number _____

Location of discharge point for a new facility. Latitude _____ Longitude _____

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

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

Name of Permittee Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Steven Bristol, EIT

Agent Signature Steven Bristol Date 5/21/2025

(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 permitee. The permitee has determined that the additional TN and TP to be contributed by this project (as modified by credits and/or offsets to be provided) will not cause the discharge to exceed the annual total mass limits for these parameters. Documentation of compliance with nutrient allocations is attached.

Name of Permittee Agency, Authority, Municipality _____

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

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

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

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

1. Project Flows 3,000 gpd
2. Total Sewage Flows to Facilities (pathway from point of origin through treatment plant)

   When providing "treatment facilties" 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	7,532,286	26,363,000	194,000	2,013,000	604,800	2,116,800
Conveyance	44,900,000	44,900,000	5,380,000	6,830,000	5,440,000	6,904,000
Treatment	250,000,000	250,000,000	177,000,000	250,000,000	217,000,000	295,000,000

3. Collection and Conveyance Facilities

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

	YES	NO	
a.	☐	☒	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

   Name of Responsible Agent Zach Rinker

   Agent Signature Zach Rinker Date Zach Rinker 2025.05.13 11:56:45 -04'00'

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

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Steven Bristol, EIT

Agent Signature Steven Bristol

Date 5/21/2025

4. Treatment Facility

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

	YES	NO	
a.	☐	☒	This project proposes the use of an existing wastewater treatment plant for the disposal of sewage. Will this action create a hydraulic or organic overload within 5 years at that facility?

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

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

b. Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Steven Bristol, EIT

Agent Signature Steven Bristol

Date 5/21/2025

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

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

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

☐ 1. Spray irrigation (other than individual residential spray systems (IRSIS)) or other land application is proposed, and the information requested in Section K.1. of the planning module instructions are attached.

☐ 2. Recycle and reuse is proposed and the information requested in Section K-2 of the planning module instructions is attached.

☐ 3. A discharge to a dry stream channel is proposed, and the information requested in Section K.3. of the planning module instructions are attached.

☐ 4 A discharge to a perennial surface water body is proposed, and the information requested in Section K.4. of the planning module instructions are attached.

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

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

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

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

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

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

O. SEWAGE MANAGEMENT (See Section O of instructions)

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

	Yes	No	
1.	☐	☒	Is connection to, or construction of, a DEP permitted, non-municipal sewage facility or a local agency permitted, community onlot sewage facility proposed.

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

2. Project Flows _____ gpd

	Yes	No	
3.	☐	☐	Is the use of nutrient credits or offsets a part of this project?

If yes, attach a letter of intent to puchase 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.

Shannon Smith, P.E.	Shannon Smith
Name (Print)	Signature
Assistant Project Manager	12/23/2024
Title	Date
1 Allegheny Square, Suite 402, Pittsburgh, PA 15212	724-638-8500
Address	Telephone Number

R. REVIEW FEE (See Section R of instructions)

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

☒ I request DEP calculate the review fee for my project and send me an invoice for the correct amount. I understand DEP's review of my project will not begin until DEP receives the correct review fee from me for the project.

☐ I have calculated the review fee for my project using the formula found below and the review fee guidance in the instructions. I have attached a check or money order in the amount of $_____ payable to "Commonwealth of PA, DEP". Include DEP code number on check. I understand DEP will not begin review of my project unless it receives the fee and determines the fee is correct. If the fee is incorrect, DEP will return my check or money order, send me an invoice for the correct amount. I understand DEP review will NOT begin until I have submitted the correct fee.

☐ I request to be exempt from the DEP planning module review fee because this planning module creates **only** one new lot and is the **only** lot subdivided from a parcel of land as that land existed on December 14, 1995. I realize that subdivision of a second lot from this parcel of land shall disqualify me from this review fee exemption. I am furnishing the following deed reference information in support of my fee exemption.

County Recorder of Deeds for _____County, Pennsylvania

Deed Volume _____ Book Number _____

Page Number _____ Date Recorded _____

R. REVIEW FEE (continued)

Formula:

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

   #_____ Lots (or EDUs) X $50.00 = $ _____

   The fee is based upon:

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

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

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

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

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

   #_____ Lots (or EDUs) X $35.00 = $ _____

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

   The fee is based upon:

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

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

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

Appendix B: Site Location Map

Appendix C: Project Narrative

1 Allegheny Square, Suite 402
Pittsburgh, PA 15212
724-638-8500

May 14th, 2025

Project Narrative: Proposed Student Center

On behalf of Central Catholic High School, Bohler Engineering is submitting a Sanitary Sewer Module for the proposed Student Center Development. This project narrative is being submitted in accordance with the requirements of Component 3, Section F of the Sewage Facilities Planning Module.

The proposed site is located along Fifth Avenue between S Neville Street and Morewood Avenue in the City of Pittsburgh's Oakland neighborhood on lot #0052J00264000000. The total acreage of the proposed project site boundary is 5.831 acres. Total disturbed area is 3.26 acres.

The site currently is an existing High School. Originally founded in 1927, the school functions today as a private, Roman Catholic, Lasallian, all-boys college preparatory school. The project proposes to demolish an existing 14,097 SF building and replace it with a larger 33,116 SF Student Center. Improvements will also be made to the existing football field, parking area, and sport storage facilities. The project location is shown in Figure 1.

Figure 1. Google Earth View of Project Location

The development primarily drains via pipe systems to the existing sewer utility line along S Neville Street Existing and proposed demands consider the type of establishment, historical data, number of public and private bathrooms, and occupancy of the facility.

With regard to the proposed Sanitary Sewage, the flow was calculated based on PADEP guidelines, and prototypical utility loading information provided by the retailers. The proposed flow from the development is calculated to be 1,800 GPD. Based on the assumption that one EDU is equal to 350 GPD, the total number of EDUs was calculated to be 8.5. Please refer to Appendix D for sanitary sewer flow calculations.

The proposed sanitary sewage flow will discharge into an existing sanitary sewer treatment facility, the ALCOSAN Wastewater Treatment Plant. Sanitary pipe from the proposed building will tie into new sanitary sewer mains on the surrounding roadways, which will then connect to PWSA's existing sewer system. Stormwater will be managed by installing pipe in the roadways surrounding the site, which will connect into PWSA's combined sewer system located within S Neville Street. Multiple inlets/catch basins will be located throughout the site to collect the remainder of the stormwater. It will then travel to the ALCOSAN Wastewater Treatment Facility.

Appendix D: Proposed Sanitary Sewer Flow Calculations

HYDRAULIC CALCULATIONS

Project: **Central Catholic High School**
4720 Fifth Avenue
City of Pittsburgh
Allegheny County, Pennsylvania

Applicant: **Central Catholic High School**
4720 Fifth Avenue
Pittsburgh, PA 15213

Project Number: **PAD230019.00**

Date: **02/07/2025**

Revised: **3/18/2025**

Shannon Smith
Pennsylvania Professional Engineer License No. PE089747

BOHLER

TABLE OF CONTENTS

1.0 STATEMENT OF PURPOSE

Provide the design and/or Permitted Capacity Flows (average and peak), Present Flows (average and peak), and Projected Flows (average and peak) for the 15" TCP combined sewer located along Neville Street.

These flows are reported in Section J of Component 3 of the PADEP Sewage Facilities Planning Module (Reference 1).

2.0 DESCRIPTION OF METHODOLGY USED

Design Capacity Flows (average and peak) are calculated using Manning's Equation for full-flow conditions and a peaking factor for combined sewer systems of 3.5. Parameters for the equation are obtained from the Pittsburgh Water and Sewer Authority (PWSA) Developer's Manual (Reference 2), the Water & Sewer (W&S) Use Tap Allocation Authorization Letter provided by PWSA (Reference 3), and the Sewage Facilities Planning Module (SFPM) Most Limited Capacity Sewer (MLCS) Spreadsheet provided to Bohler by PWSA (Reference 4).

Present flows (average and peak) are measured from the 30-day flow monitoring period performed from December 13, 2024 to January 11, 2025. Flow monitoring was conducted in manhole MN052N001 located on Neville Street.

30-day flow monitoring data was utilized to calculate flows per Method #2 described in Methodology to Determine the Present Flow in the PWSA Developer's Manual. Projected flows in 5 years (average and peak) are calculated using the present peak flow and project flow, and peaking factor of 3.5.

3.0 NUMERICAL CALCULATIONS

Design Capacity, average and peak flows, are calculated using the following equation:

$$Q_{peak,design} = \left(\frac{1.49}{n}\right) AR^{\frac{2}{3}}\sqrt{S} \qquad \text{(Equation 1) (Reference 5)}$$

$$Q_{average,design} = \frac{Q_{peak,design}}{Peaking\ factor} \qquad \text{(Equation 2) (Reference 2)}$$

Present flows, average ($Q_{average,present}$) and peak ($Q_{peak,present}$),were measures during 30-day flow monitoring task.

Projected flows in 5 years, average and peak, are calculated using the following equation:

$$Q_{peak,projected} = (Q_{peak,present} + Q_{project\ flow}) * 1.05 \quad \text{(Equation 3) (Reference 2)}$$

$$Q_{average,projected} = \frac{Q_{peak,projected}}{Peaking\ factor} \quad \text{(Equation 4) (Reference 2)}$$

Where:

$Q_{peak,design}$ = Peak design capacity flow

n = Manning's roughness coefficient

A = Flow area

R = Hydraulic radius

S = Pipe slope

$Q_{average,design}$ = Average design capacity flow

$Q_{peak,projected}$ = Projected peak flow in 5 years

$Q_{average,projected}$ = Projected average flow in 5 years

4.0 INPUT

- n = 0.016 (per PWSA's Developer's Manual for brick)
- Pipe diameter = 30 in = 2.50 ft (per SFPM MLCS Spreadsheet)
- Length of pipe = 35.60 ft (per MLCS spreadsheet – note a different manhole had to be selected per access issues which were discussed with PWSA)
- Vertical drop from upstream invert to downstream invert = 841.60 – 841.07 = 0.53 ft (per SFPM MLCS Spreadsheet)
- Peaking factor = 3.5 (per PWSA's Developer's Manual for combined sewers)

5.0 RESULTS

See Attachment B.

6.0 REFERENCES

1. Pennsylvania Department of Environmental Protection, Instructions for Completing Component 3 Sewage Collection and Treatment Facilities. Revised February, 2015.

2. Pittsburgh Water and Sewer Authority, Developer's Manual. Revised April 12, 2024.

3. Water & Sewer (W&S) Use Tap Allocation Authorization Letter provided to Bohler by PWSA.

4. Sewage Facilities Planning Module (SFPM) Most Limited Capacity Sewer (MLCS) Spreadsheet provided to Bohler by PWSA.

5. Merle C. Potter, David C. Wiggert, Bassem H. Ramadan, Mechanics of Fluids, Fourth Edition.

7.0 Attachments

Attachment A	Water and Sewer Use Tap Allocation Authorization Letter
Attachment B	Average Hourly Dry Weather Flow
Attachment C	Methodology to Determine Present Flows and Calculations for Design Capacity, Present Flows and Projected Flow from PWSA Developer's Manual
Attachment D	Sewage Facilities Planning Module MLCS Spreadsheet
Attachment E	Manning's Equation Reference: Mechanics of Fluids

Attachment A

Water and Sewer Use Tap Allocation Authorization Letter

Pittsburgh Water & Sewer Authority

October 22, 2024

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

Subject: Tap Allocation Authorization Letter

Dear Mr. Ryan:

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

Project Name:	4720 5th Ave
Project Address:	4720 5th Ave Pittsburgh, PA 15213
Net Flow, gpd:	1,800
EDU's, 350gpd/EDU:	8.5

Our review is based on information provided by others under the assumption that this information was accurate and complete. Should you have any questions, please do not hesitate to contact me directly at x5370 or ZRinker@pgh2o.com.

Sincerely,

Zach Rinker, PE
Project Manager

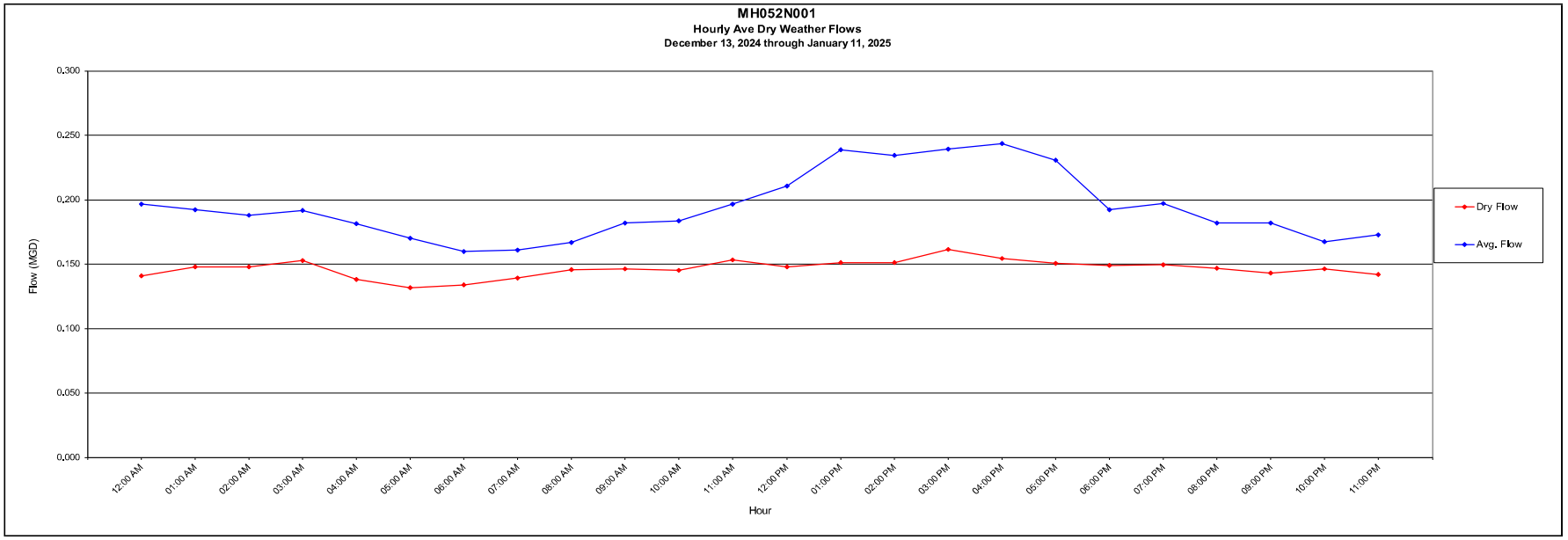
cc: CityGrows – Application Number DEV-482-1024

Attachment B

Average Hourly Dry Weather Flow

Average Hourly Dry Flow December 13, 2024 through January 11, 2025

2024	12/13	12/14	12/15	12/16	12/17	12/18	12/19	12/20	12/21	12/22	12/23	12/24	12/25	12/26	12/27	12/28	12/29	12/30	12/31	01/01	01/02	01/03	01/04	01/05	01/06	01/07	01/08	01/09	01/10	01/11	Average
12:00 AM										0.158			0.140	0.133										0.132							0.141
01:00 AM										0.155			0.151	0.145										0.140							0.148
02:00 AM										0.151			0.154	0.137										0.149							0.148
03:00 AM	0.155									0.162			0.154	0.140										0.152							0.153
04:00 AM	0.134	0.145											0.144	0.142										0.153						0.111	0.138
05:00 AM	0.119	0.136								0.150			0.140	0.151										0.149				0.117		0.092	0.132
06:00 AM	0.120	0.136								0.156			0.139	0.156										0.141				0.127		0.095	0.134
07:00 AM		0.146								0.161			0.144	0.156										0.140				0.115		0.111	0.139
08:00 AM		0.167								0.160			0.153	0.159										0.140				0.129		0.111	0.146
09:00 AM										0.162			0.156	0.166										0.131				0.145		0.120	0.146
10:00 AM										0.168			0.158											0.119				0.144		0.138	0.145
11:00 AM										0.173			0.158	0.174										0.123				0.146		0.146	0.154
12:00 PM										0.170			0.150											0.122				0.149			0.148
01:00 PM										0.161			0.148											0.128				0.165		0.154	0.151
02:00 PM										0.162			0.134	0.167										0.140				0.159		0.144	0.151
03:00 PM	0.182	0.187								0.168			0.141	0.180										0.145				0.142		0.143	0.161
04:00 PM	0.184									0.155			0.141	0.168										0.142				0.147		0.144	0.154
05:00 PM										0.157			0.151	0.162										0.139				0.140		0.154	0.150
06:00 PM										0.160			0.146	0.159										0.141				0.139		0.150	0.149
07:00 PM										0.159			0.151	0.165										0.140				0.136		0.145	0.149
08:00 PM										0.152			0.146											0.138				0.145		0.153	0.147
09:00 PM										0.148			0.145	0.157										0.148				0.118			0.143
10:00 PM							0.159			0.154			0.142	0.160										0.144				0.119			0.146
11:00 PM										0.152			0.144	0.156										0.143				0.116			0.142
AVG.	0.149	0.153					0.159			0.159			0.147	0.157										0.139				0.137		0.132	**0.146**
Precip. :	0.00	0.00	0.24	0.18	0.02	0.22	0.00	0.03	0.13	0.00	0.00	0.13	0.00	0.00	0.01	0.02	0.22	0.09	0.28	0.10	0.00	0.04	0.01	0.00	0.02	0.03	0.02	0.00	0.00	0.00	



Attachment C

Methodology to Determine Present Flows and Calculations for Design Capacity, Present Flows and Projected Flow from PWSA Developer's Manual

Methodology to Determine the Present Flow Within the Most Limited Capacity Sewer

The SFPM shall analyze the most limited capacity sewer (MLCS) downstream of the proposed connection to ensure the proposed flows will not create a dry-weather hydraulic overload within the next five (5) years. The PWSA shall provide the location of the MLCS within our online permitting portal. Please note that the MLCS is not typically the same sewer utilized for connection. The Present Flow within the MLCS shall be determined, as follows:

Method No.	Project Flows, gpd	Methodology to Determine the Present Flow within the MLCS
Method #1	Up to and Including 4,000 gpd	Peak Flow Depth Measurements
Method #2	Greater than 4,000 gpd	Flow Monitoring

Method #1: Peak Flow Measurement
The Applicant shall take a minimum of five (5) flow depth measurements at the MLCS over a one-hour period between 6-8 AM or 6-8 PM. For example, an Applicant could take measurements at 7:00AM, 7:15AM, 7:30AM, 7:45AM and 8:00AM. The maximum of the five flow measurements shall be utilized as the flow depth for the Manning equation calculations. All flow depths between zero and one inch shall be rounded to one-inch.

Method #2: Flow Monitoring
The Applicant shall contract with a professional flow monitoring company to monitor the Present Flows at the MLCS. The flow monitoring shall take place for a minimum period of 30 calendar days, unless otherwise approved by the PWSA. Data should be checked for quality and analyzed to provide the present maximum monthly dry weather average flows and peak flows in gallons per day. For peak flows in the PWSA's collection systems, indicate whether the flow is peak hourly flow or peak instantaneous flow. The Applicant shall provide the results in an excel spreadsheet.

Calculations for Design Capacity, Present Flows and Projected Flows

General Information
The flow calculations shall be signed and sealed by a Professional Engineer licensed in the Commonwealth of Pennsylvania.

When available, the Applicant may utilize historical as-built information, which can be requested via the PWSA website, to determine the existing sewer slope. If historical as-built information is not available, the Applicant shall either utilize the minimum slope permitted per the DEP Wastewater Facilities Manual or survey the existing sewer to determine the actual sewer slope.

The Applicant shall utilize the following Manning Roughness Coefficients (n):

Table 3.2
Manning Roughness Coefficient

Pipe Material	Manning Roughness Coefficient, n
Brick	0.016
Concrete	0.013
Ductile Iron	0.012
Plastic	0.010
Vitrified Clay	0.015

The Applicant shall utilize the following Peaking Factors:

Table 3.3 Peaking Factors

Type of Collection System	Peaking Factor
Combined	3.5
Separate	3.0

Flow Calculations

The Applicant shall calculate the Design and/or Permitted Capacity, Present Flows and Projected Flows in 5 Years, as follows:

Table 3.4 Flow Calculation Methodology

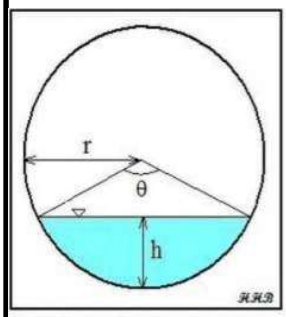
Flow Type	Calculation Methodology
Peak Design Capacity	Use the Manning Equation for full-flow conditions
Average Design Capacity	= Peak Design Capacity ÷ Peaking Factor
Present Peak Flow	Method #1: Use the Manning Equation for partially filled pipes
	Method #2: Analyze the flow data
Present Average Flow	Method #1: = Present Peak Flow ÷ Peaking Factor
	Method #2: Analyze the flow data
Projected Peak Flow in 5 Years	= (Present Peak Flow + Project Flow) × 1.05
Project Average Flow in 5 Years	= Projected Peak Flow in 5 Years ÷ Peaking Factor

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

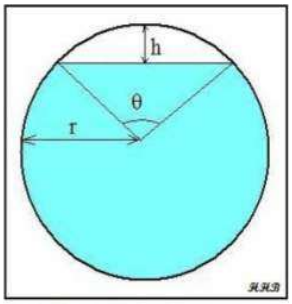
PROJECT NAME:	Central Catholic High School
PWSA PROJECT NUMBER:	
PWSA REVIEWER:	
DATE:	March 18, 2025

LEGEND: Input Data | Output Data

Section A: Manning Equation for Partially Filled Pipes



Partially Full Pipe Flow Parameters (Less Than Half Full)



Partially Full Pipe Flow Parameters (More Than Half Full)

Variable	*Units*	*Description*
Q	ft^3	Volumetric flowrate
n	Unitless	Manning Roughness Coeff.
A	ft^2	Cross-Sectional Area of Flo
R	ft	Hydraulic Radius
S	ft/ft	Slope of Hydraulic Grade Li
P	ft	Wetted Perimeter of "A"
r	ft	Radius
h	ft	Depth of Flow or Headspac
Θ	radians	Central Angle

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

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

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

Section B: Data for Calculations

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

Proposed Project Flows		
Variable	Value	Units
Q_p	3,000	gpd

Variable	*Value*	*Units*
Material	Brick	
n	0.016	unitless
S	0.015	ft/ft
h	2.500	ft
D	2.50	ft
P.F.	3.5	unitless

Section C: Calculations for Design and/or Permitted Capacities

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

Design Capacity, Average		
Variable	*Value*	*Unit*
$Q_{d, avg}$	7,532,286	gpd

Design Capacity, Peak		
Variable	*Value*	*Unit*
D	2.500	ft
r	1.250	ft
A	4.909	ft^2
P	7.854	ft
R	0.625	ft
$Q_{d, peak}$	41	cfs
$Q_{d, peak}$	26,363,000	gpd

Section D: Calculations for Present Flows

Variable	*Description*	*Definition*
$Q_{ex, avg}$	Present Flows, Average	determined via flow monitoring data
$Q_{ex, peak}$	Present Flows, Peak	determined via flow monitoring data

Present Flows, Average		
Variable	*Value*	*Unit*
$Q_{ex, avg}$	194,000	gpd

Present Flows, Peak		
Variable	*Value*	*Unit*
$Q_{ex, peak}$	2,013,000	gpd

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

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

Projected Flow Calculations		
Variable	*Value*	*Unit*
$Q_{proj, avg}$	604,800	gpd
$Q_{proj, peak}$	2,116,800	gpd

Section F: Compare Results with Applicant's Submission

Variable	*PWSA, gpd*	*Applicant, gpd*	*Difference, gpd*	*Difference, %*
$Q_{d, avg}$	7,532,286	1,264,818	6,267,468	83%
$Q_{d, peak}$	26,363,000	4,426,863	21,936,137	83%
$Q_{ex, avg}$	194,000	194,000	0	0%

Attachment D

Sewage Facilities Planning Module MLCS Spreadsheet

Most Limited Capacity Sewer (MLCS) Spreadsheet

PROJECT NAME:	4720 Fifth Ave
PWSA PROJECT NUMBER:	DEV-482-1024
PWSA REVIEWER:	Chris Hughes
DATE:	October 25, 2024

LEGEND:

- Output Data
- Input Data
- Questionable Data
- Hydraulically Limited Sewer

Upstream MH	Downstream MH	Upstream Invert	Downstream Invert	Length, ft	Diam., in.	Material	n	Area, sf	Wetted P, ft	Slope	Flow, gpd
JCT052J008	MH052N056	857.78	848.10	212.40	15	VCP	0.015	1.23	3.927	4.56%	7,746,606
MH052N056	MH052N050	848.10	845.96	97.30	15	VCP	0.015	1.23	3.927	2.20%	5,378,129
MH052N050	JCT052N010	845.96	841.60	9.90	15	VCP	0.015	1.23	3.927	44.03%	24,074,629
JCT052N010	MH052N001	841.60	841.07	35.60	30	Brick	0.016	4.91	7.854	1.49%	26,352,064
MH052N001	MH052N059	841.07	840.06	61.60	30	Brick	0.016	4.91	7.854	1.64%	27,654,896
MH052N059	MH052N058	840.06	835.43	67.10	30	Brick	0.016	4.91	7.854	6.90%	56,726,244
MH052N058	JCT052N013	835.43	833.18	79.20	30	Brick	0.016	4.91	7.854	2.84%	36,410,518
JCT052N013	JCT052N015	833.18	824.54	189.00	30	Brick	0.016	4.91	7.854	4.57%	46,177,207
JCT052N015	JCT052N020	824.54	810.10	361.40	30	Brick	0.016	4.91	7.854	4.00%	43,170,912
JCT052N020	MH052N040	810.10	809.94	43.80	68	Brick/SN	0.016	25.22	17.802	0.37%	115,724,431
MH052N040	MH053A001	809.94	794.34	722.70	68	Brick/SN	0.016	25.22	17.802	2.16%	281,310,142
MH053A001	MH028H030	794.34	784.10	577.30	68	Brick/SN	0.016	25.22	17.802	1.77%	255,031,441
MH028H030	MH028H001	784.10	780.18	160.80	81	Concrete	0.013	35.78	21.206	2.44%	586,503,883
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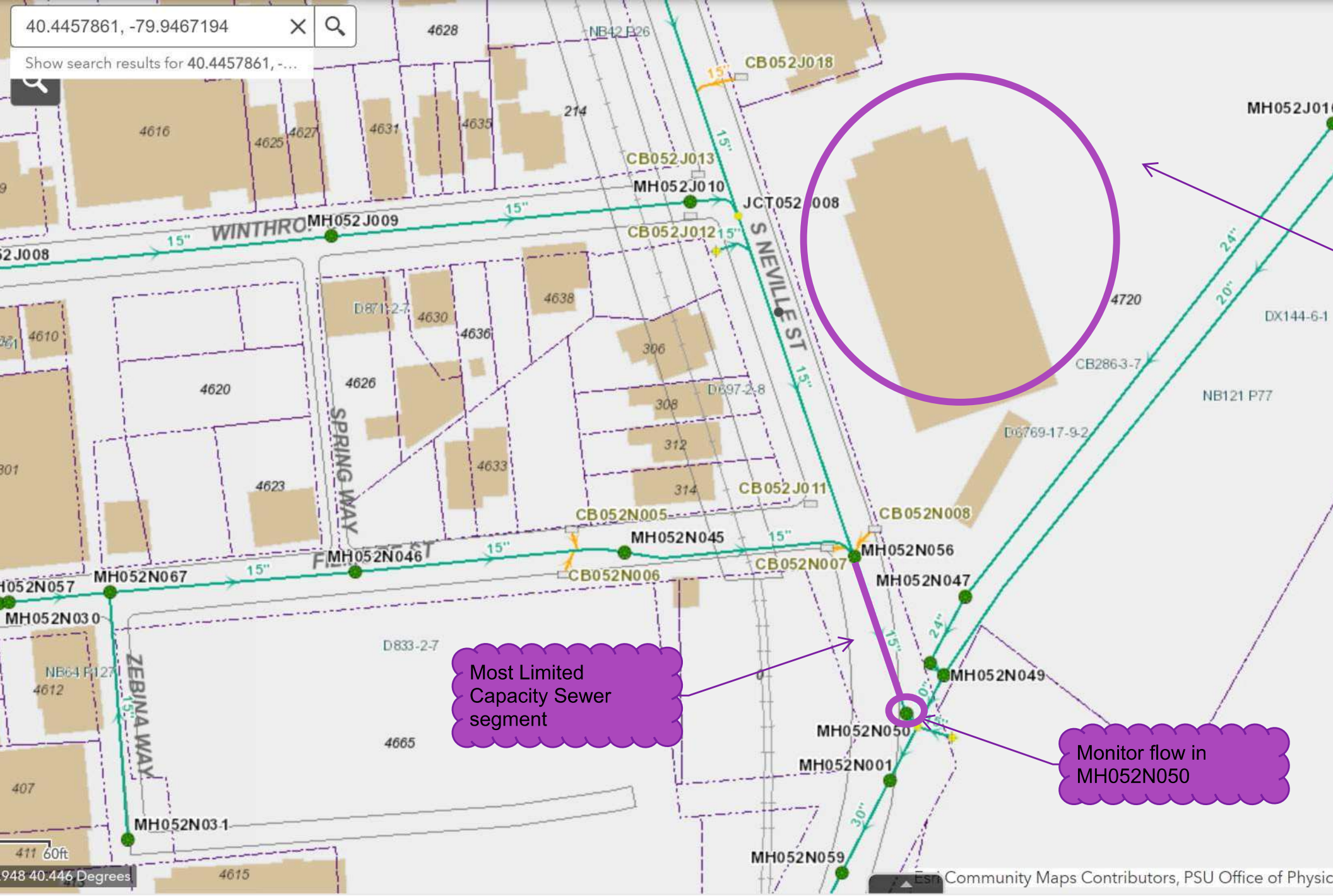

40.4457861, -79.9467194
Show search results for 40.4457861, -...
CB052J018
MH052J010
JCT052J008
CB052J013
CB052J012
MH052J009
WINTHROP
S NEVILLE ST
SPRING WAY
FIRST ST
ZEBINA WAY
CB052J011
CB052N005
CB052N008
MH052N045
MH052N046
MH052N056
CB052N007
CB052N006
MH052N047
MH052N067
MH052N057
MH052N030
MH052N049
MH052N050
MH052N001
MH052N031
MH052N059
Most Limited Capacity Sewer segment
Monitor flow in MH052N050
Esri Community Maps Contributors, PSU Office of Physic

Attachment E

Manning's Equation Reference: Mechanics of Fluids

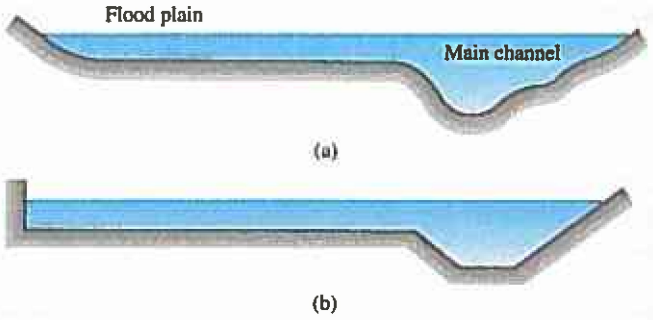


Fig. 10.5 Generalized section representation: (a) actual cross section; (b) composite cross section.

fitting or interpolation to extract the numerical information as functions of the depth. Such procedures are useful for computer-based analyses.

A composite section is one made up of several subsections; usually these subsections are of analytic form. The example shown in Fig. 10.5a consists of a main channel and a floodplain. The main channel is approximated by a trapezoid and the floodplain by a rectangle, Fig. 10.5b. One could derive analytical expressions for such a composite section; however, it may be more useful to consider the functional forms for the geometric parameters. Note that the functions will be discontinuous at depths where the two sections are matched.

Most of the theoretical developments in this chapter focus on cross sections that are rectangular. Such an assumption allows one to simplify the mathematics associated with open-channel flow analysis. Even though the equations will be simplified relative to more complicated geometries, the physical understanding of the phenomena and conclusions reached will apply to most generalized prismatic cross sections. A clear distinction will be made between rectangular and other types of geometry when various developments and concepts are presented.

CEPT *Uniform in a channel epth and velocity along its length.*

10.3.2 Equation for Uniform Flow

Uniform flow occurs in a channel when the depth and velocity do not vary along its length, that is, when terminal conditions have been reached in the channel. Under such conditions, the energy grade line, water surface, and channel bottom are all parallel. Uniform flow can be predicted by an equation of the form

$$V = C\sqrt{RS_0} \tag{10.3.11}$$

in which S_0 is the slope of the channel bottom and C is the *Chezy coefficient*,

$$C = \frac{c_1}{n} R^{1/6} \tag{(1}$$

where $c_1 = 1$ for SI units and $c_1 = 1.49$ for English units. Combining Eqs. and 10.3.12 with the definition of discharge results in the *Chezy–Manning e*

$$Q = \frac{c_1}{n} AR^{2/3}\sqrt{S_0} \tag{1}$$

Values of the Manning coefficient n are given in Table 7.3.

The depth associated with uniform flow is designated y_0; it is called eith *form depth* or *normal depth*. Uniform flow rarely occurs in rivers because irregularity of the geometry. In man-made channels it is not always present the presence of controls such as sluice gates, weirs, or outfalls will cause the become gradually varied. It is, however, necessary to determine y_0 when ana gradually varied flow conditions, since it provides a basis for evaluating the t water surface that may exist in the channel. The design of gravity flow sewe works is often based on assuming uniform flow and the use of Eq. 10.3.13 though much of the time the flow in such systems may be nonuniform.

An examination of Eq. 10.3.13 reveals that it can be solved explicitly n, or S_0. Examples 7.19 and 7.20 provide illustrations. Use of a trial-and solution or equation solver is necessary when it is required to find y_0 wi remaining parameters given.

Example 10.1

Water is flowing at a rate of 4.5 m^3/s in a trapezoidal channel (Fig. 10.4b) whose tom width is 2.4 m and side slopes are 1 vertical to 2 horizontal. Compute y_0 if $n =$ and $S_0 = 0.0001$.

Solution

Given geometrical data are $b = 2.4$ m and $m_1 = m_2 = 2$. Rearrange Eq. 10.3.13, no that $R = A/P$ and $c_1 = 1$:

$$\frac{A^{5/3}}{P^{2/3}} = \frac{nQ}{\sqrt{S_0}}$$

Substituting in the known data and trapezoidal geometry, one has

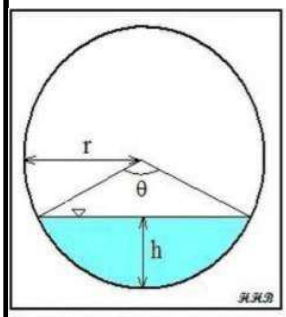
$$\frac{\left[2.4y_0 + \frac{1}{2}y_0^2(2+2)\right]^{5/3}}{} = 0.012 \times 4.5$$

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

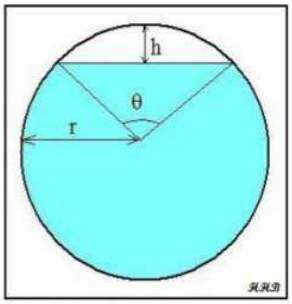
PROJECT NAME:	Central Catholic High School
PWSA PROJECT NUMBER:	
PWSA REVIEWER:	
DATE:	March 18, 2025

LEGEND: Input Data | Output Data

Section A: Manning Equation for Partially Filled Pipes



Partially Full Pipe Flow Parameters (Less Than Half Full)



Partially Full Pipe Flow Parameters (More Than Half Full)

Variable	*Units*	*Description*
Q	ft^3	Volumetric flowrate
n	Unitless	Manning Roughness Coeff.
A	ft^2	Cross-Sectional Area of Flo
R	ft	Hydraulic Radius
S	ft/ft	Slope of Hydraulic Grade Li
P	ft	Wetted Perimeter of "A"
r	ft	Radius
h	ft	Depth of Flow or Headspac
Θ	radians	Central Angle

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

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

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

Section B: Data for Calculations

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

Proposed Project Flows		
Variable	Value	Units
Q_p	3,000	gpd

Variable	*Value*	*Units*
Material	Brick	
n	0.016	unitless
S	0.015	ft/ft
h	2.500	ft
D	2.50	ft
P.F.	3.5	unitless

Section C: Calculations for Design and/or Permitted Capacities

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

Design Capacity, Average		
Variable	*Value*	*Unit*
$Q_{d, avg}$	7,532,286	gpd

Design Capacity, Peak		
Variable	*Value*	*Unit*
D	2.500	ft
r	1.250	ft
A	4.909	ft^2
P	7.854	ft
R	0.625	ft
$Q_{d, peak}$	41	cfs
$Q_{d, peak}$	26,363,000	gpd

Section D: Calculations for Present Flows

Variable	*Description*	*Definition*
$Q_{ex, avg}$	Present Flows, Average	determined via flow monitoring data
$Q_{ex, peak}$	Present Flows, Peak	determined via flow monitoring data

Present Flows, Average		
Variable	*Value*	*Unit*
$Q_{ex, avg}$	194,000	gpd

Present Flows, Peak		
Variable	*Value*	*Unit*
$Q_{ex, peak}$	2,013,000	gpd

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

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

Projected Flow Calculations		
Variable	*Value*	*Unit*
$Q_{proj, avg}$	604,800	gpd
$Q_{proj, peak}$	2,116,800	gpd

Section F: Compare Results with Applicant's Submission

Variable	*PWSA, gpd*	*Applicant, gpd*	*Difference, gpd*	*Difference, %*
$Q_{d, avg}$	7,532,286	1,264,818	6,267,468	83%
$Q_{d, peak}$	26,363,000	4,426,863	21,936,137	83%
$Q_{ex, avg}$	194,000	194,000	0	0%

Appendix E: Plot Plan

TITLE NOTES:

THE SURVEYOR HAS REVIEWED FIDELITY NATIONAL TITLE INSURANCE COMPANY'S COMMITMENT NUMBER 283765/102, BEARING THE EFFECTIVE DATE OF NOVEMBER 7, 2023 (REVISED DECEMBER 27, 2023 - LAST REVISED JANUARY 2, 2024) IN PREPARING THIS MAP AND WAS FURNISHED COPIES OF THE RECORDED INSTRUMENTS REFERRED TO IN ITEMS 9-24 OF SCHEDULE B, PART II, AND AFTER REVIEWING SAID INSTRUMENTS STATE AS FOLLOWS:

9. ALL MATTERS SHOWN ON THE JAMES D. CARLISLE PLAN OF LOTS, DATED JULY, 1872 AS SAME WAS RECORDED ON SEPTEMBER 26, 1890 WITH THE DEPARTMENT OF REAL ESTATE OF ALLEGHENY COUNTY, PENNSYLVANIA IN PLAN BOOK VOLUME 11, PAGE 8. (AFFECTS SUBJECT PROPERTY - NO PLOTTABLE ITEMS)

10. RIGHTS OF OTHERS, IN COMMON WITH THE OWNERS OF THE PREMISES INSURED HEREIN, AND THE PROPORTIONATE PART OF THE COST OF MAINTENANCE, IN AND TO THAT ROAD KNOWN AS HUS WAY, A/K/A THE QUAD. (AFFECTS SUBJECT PROPERTY - PLOTTED AS SHOWN)

11. RIGHTS, RESERVATIONS, CONDITIONS AND RESTRICTIONS AS SET FORTH AND RECITED IN DEED FROM PITTSBURGH CATHOLIC PALESTRA FOUNDATION TO RIGHT REVEREND HUGH C. BOYLE, BISHOP OF THE ROMAN CATHOLIC DIOCESE OF PITTSBURGH, AS TRUSTEE DATED JUNE 27, 1949 AND RECORDED IN DEED BOOK VOLUME 3058 PAGE 519. (AFFECTS SUBJECT PROPERTY - NO PLOTTABLE ITEMS)

12. THE FOLLOWING NOTATIONS SET FORTH IN THE PLAN OF PROPERTY MADE FOR CATHOLIC INSTITUTE OF PITTSBURGH BY THE GATEWAY ENGINEERS, INC. DATED JUNE 1969 (DRAWING NO. 41,634A):

(A) UNDERGROUND UTILITIES SHOWN OR LOCATED BY RECORD; (AFFECTS SUBJECT PROPERTY - PLOTTED AS SHOWN, IF ANY)

(B) BLOCK/LOT NOS. 52-J104 AND 264 PART OF THE FOLLOWING LOTS AND VACATED STREETS:

(I) LOTS 9-11; 13-21; PART OF LOT 8, PART OF HUS WAY, AND PART OF CRANMER STREET, AS SHOWN ON J. D. CARLISLE'S SUBDIVISION PLAN (PLAN BOOK VOLUME 11, PAGE 8); (AFFECTS SUBJECT PROPERTY - PLOTTED AS SHOWN, IF ANY) AND

(II) LOTS 5, 6, PART OF LOTS 7, 8, 9 , PART OF THE MANSION HOUSE LOT AND ROAD; AND PART OF JEFFERSON ST., AS SHOWN ON RINEHART TOMER'S SUBDIVISION PLAN OF FARM (DEED BOOK VOLUME 56, PAGE 293); (AFFECTS SUBJECT PROPERTY - PLOTTED AS SHOWN, IF ANY) AND

(III) LOT 1 AND 5 AND PART OF LOTS 2, 3 AND 4 OF JOHN RINEHART TOMER'S PLAN OF SUBDIVISION OF LOT (ABOVE) AT PLAN BOOK VOLUME 5, PAGE 318. (AFFECTS SUBJECT PROPERTY - PLOTTED AS SHOWN, IF ANY)

13. RIGHT OF WAY FROM CATHOLIC INSTITUTE OF PITTSBURGH, PA TO DUQUESNE LIGHT COMPANY, DATED APRIL 26, 1977 AND RECORDED IN DEED BOOK VOLUME 5767, PAGE 538. (AFFECTS SUBJECT PROPERTY - NOT PLOTTABLE - SINCE COMPANY DRAWING NO. C-92928, DWG. 2 IS NOT AVAILABLE)

14. ALL MATTERS SHOWN ON LAND TITLE SURVEY PREPARED FOR CENTRAL CATHOLIC HIGH SCHOOL, INC., BY GATEWAY CONSULTING ENGINEERS AND SURVEYORS, DATED DECEMBER 29, 2011 (JOB NO. C- 10781-0004), DRAWING NO. 402, 162. (RELATES TO PARCEL A OF SUBDIVISION PLAN OF CENTRAL CATHOLIC HIGH SCHOOL - PLAN BOOK VOLUME 288; PAGE 184). (AFFECTS SUBJECT PROPERTY - NO PLOTTABLE ITEMS)

15. RIGHT TO USE A 15' PRIVATE ALLEY AND 40-FOOT PRIVATE STREET WITH COMMON OWNERS, THEIR HEIRS, SUCCESSORS AND ASSIGNS, OF OTHER LOTS OR PROPERTIES IN THE JAMES D. CARLISLE PLAN OF LOTS, AS SAME IS RECORDED IN THE OFFICE OF THE DEPARTMENT OF REAL ESTATE OF ALLEGHENY COUNTY, PENNSYLVANIA, IN PLAN BOOK VOLUME 11, PAGE 8, AS RECITED IN DEED FROM VANDANA SHARMA TO CENTRAL CATHOLIC HIGH SCHOOL, INC. DATED JULY 15, 2013 AND RECORDED IN DEED BOOK VOLUME 15325, PAGE 1. (NO LONGER AFFECTS SUBJECT PROPERTY - SEE EXTINGUISHMENT DOCUMENT RECITED AT ITEM 18)

16. RIGHT TO USE SUCH SEWER AND GAS LINES AS MAY NOW BE USED IN COMMON BY AND AMONG THE OWNERS OR OCCUPIERS OF HOUSES KNOWN AS 201 TO 211 SOUTH NEVILLE STREET, INCLUSIVE, OR ANY OF THEM SUBJECT, HOWEVER, TO THE RIGHT OF THE OWNERS OF SAID HOUSES TO MAKE LIKE USE THEREOF AS RECITED IN DEED FROM VANDANA SHARMA TO CENTRAL CATHOLIC HIGH SCHOOL, DATED JULY 15, 2013 AND RECORDED IN DEED BOOK VOLUME 15325, PAGE 1. (NO LONGER AFFECTS SUBJECT PROPERTY - SEE EXTINGUISHMENT DOCUMENT

PENNSYLVANIA STATE PLANE
COORDINATE SYSTEM, NAD83

LEGEND

- SUBJECT PROPERTY LINE
- ADJOINERS LINES
- RIGHT-OF-WAY LINES
- EXISTING OVERHEAD UTILITY LINES
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING ELECTRIC LINE
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING TELEPHONE LINE
- EXISTING CABLE LINE
- EXISTING CHAIN LINK FENCE
- EXISTING HAND RAIL
- EXISTING WATER VALVE
- EXISTING SIGN
- EXISTING UTILITY POLE
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING GAS VALVE
- EXISTING GUY WIRE
- EXISTING CURB INLET
- EXISTING FIRE HYDRANT
- EXISTING BOLLARD
- EXISTING LIGHT
- EXISTING STREET LIGHT
- EXISTING GAS METER
- EXISTING WATER METER
- EXISTING CLEAN
- EXISTING CATCH
- EXISTING VAULT
- EXISTING ELECT
- EXISTING TELEP
- EXISTING WATE
- EXISTING ELECT
- EXISTING ELEC
- EXISTING ADA P
- EXISTING AIR C

CONC. CURB

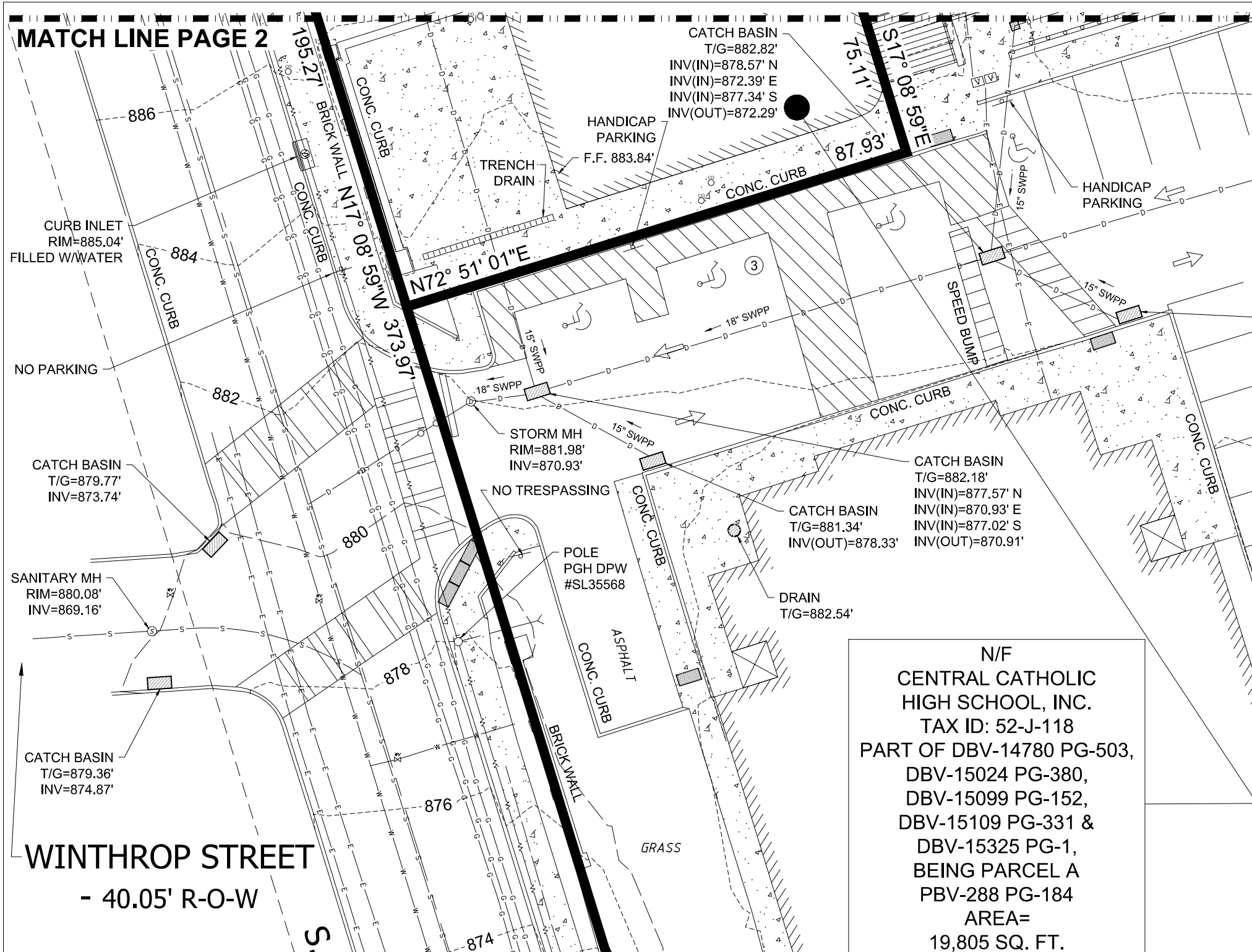
DOUB

7TH. WARD - CITY OF PITTSBURGH
14TH. WARD - CITY OF PITTSBURGH

CONC. C

14TH. W
7TH. W

N/F


MATCH LINE PAGE 2
195.27'
BRICK WALL
N17° 08' 59"W 373.97'
CONC. CURB
886
884
882
880
878
876
874
CURB INLET
RIM=885.04'
FILLED W/WATER
NO PARKING
CATCH BASIN
T/G=879.77'
INV=873.74'
SANITARY MH
RIM=880.08'
INV=869.16'
CATCH BASIN
T/G=879.36'
INV=874.87'
WINTHROP STREET
- 40.05' R-O-W
CATCH BASIN
T/G=882.82'
INV(IN)=878.57' N
INV(IN)=872.39' E
INV(IN)=877.34' S
INV(OUT)=872.29'
HANDICAP
PARKING
F.F. 883.84'
TRENCH
DRAIN
N72° 51' 01"E
75.11'
S17° 08' 59"E
87.93'
CONC. CURB
HANDICAP
PARKING
15" SWPP
18" SWPP
SPEED BUMP
STORM MH
RIM=881.98'
INV=870.93'
NO TRESPASSING
POLE
PGH DPW
#SL35568
ASPHALT
BRICK WALL
GRASS
CATCH BASIN
T/G=882.18'
INV(IN)=877.57' N
INV(IN)=870.93' E
INV(IN)=877.02' S
INV(OUT)=870.91'
CATCH BASIN
T/G=881.34'
INV(OUT)=878.33'
DRAIN
T/G=882.54'
N/F
CENTRAL CATHOLIC
HIGH SCHOOL, INC.
TAX ID: 52-J-118
PART OF DBV-14780 PG-503,
DBV-15024 PG-380,
DBV-15099 PG-152,
DBV-15109 PG-331 &
DBV-15325 PG-1,
BEING PARCEL A
PBV-288 PG-184
AREA=
19,805 SQ. FT.

Appendix F: PNDI

1. PROJECT INFORMATION

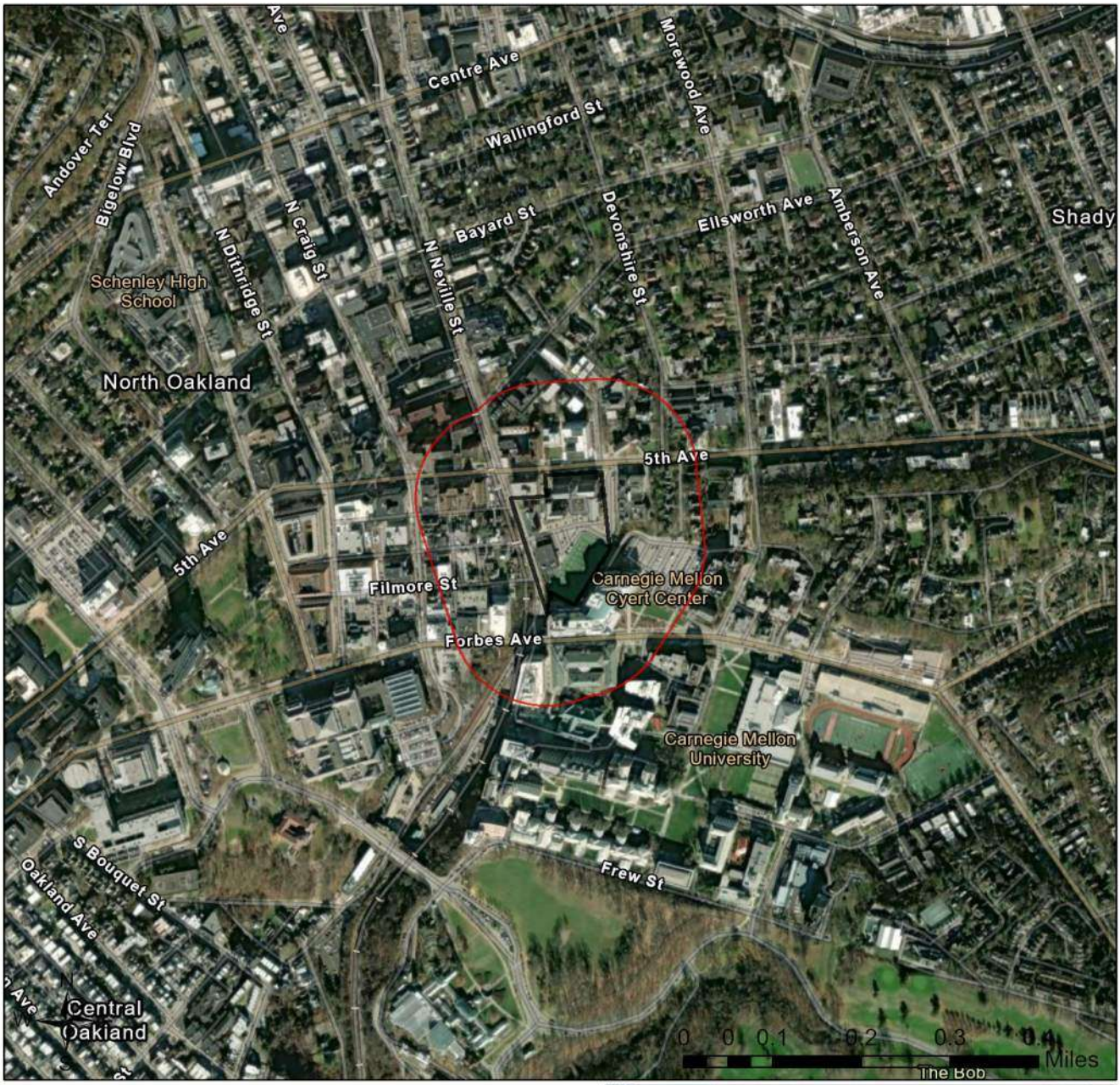
Project Name: **Central Catholic High School**
Date of Review: **1/26/2024 04:33:44 PM**
Project Category: **Development, Additions/maintenance to existing development facilities**
Project Area: **0.53 acres**
County(s): **Allegheny**
Township/Municipality(s): **PITTSBURGH**
ZIP Code:
Quadrangle Name(s): **PITTSBURGH EAST**
Watersheds HUC 8: **Lower Monongahela**
Watersheds HUC 12: **Streets Run-Monongahela River**
Decimal Degrees: **40.445585, -79.946618**
Degrees Minutes Seconds: **40° 26' 44.1055" N, 79° 56' 47.8248" 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.

Central Catholic High School

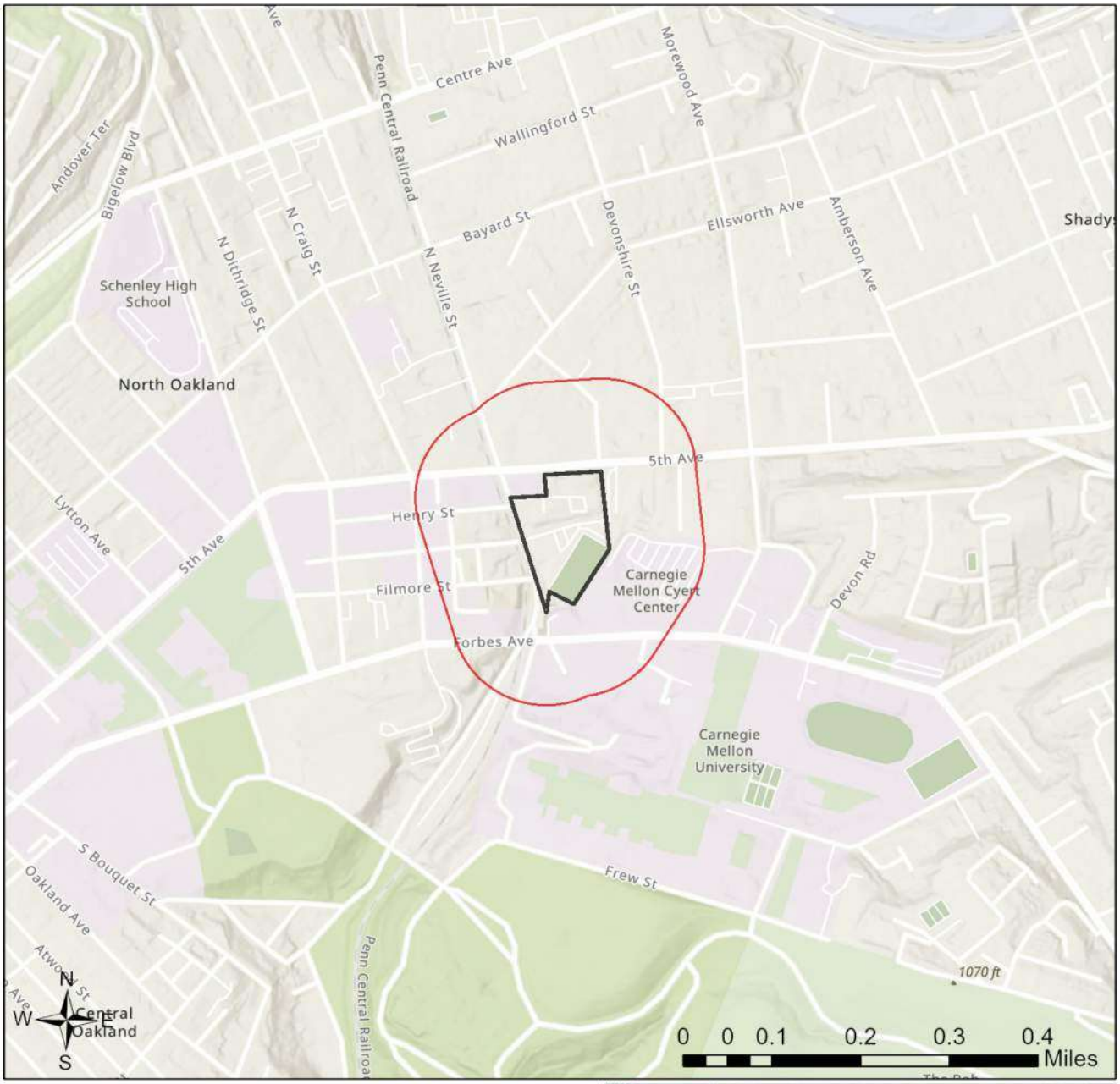


Buffered Project Boundary

Project Boundary

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

Central Catholic High School



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

3. AGENCY COMMENTS

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

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jursidictional 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
Email: IR1_ESPenn@fws.gov
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 Management
Division of Environmental Review
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Erin Gogolin
Company/Business Name: Bohler
Address: 1 Allegheny Square, Suite 402
City, State, Zip: Pittsburgh, PA 15212
Phone: (724) 638-8500 Fax: ( )
Email: egogolin@bohlereng.com

8. CERTIFICATION

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

Erin E. Gogolin
applicant/project proponent signature

01/26/2024
date

Appendix G: Component 4A & Component 4C

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

INSTRUCTIONS FOR COMPLETING COMPONENT 4A
MUNICIPAL PLANNING AGENCY REVIEW

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

Background

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

Who Should Complete the Component?

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

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

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

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

Section A. Project Name

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

Section B. Review Schedule

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

Section C. Agency Review

1. Answer the yes/no questions and provide any descriptive information necessary on the lines provided. Attach additional sheets, if necessary.

2. Complete the name, title, and signature block.

Section D. Additional Comments

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

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DEP Code #:

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

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

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

Project Name
Central Catholic High School

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

1. Date plan received by municipal planning agency _____
2. Date review completed by agency _____

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

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

SECTION C. AGENCY REVIEW (continued)

Yes	No		
☐	☐	13.	Is this proposal consistent with the ordinance? If no, describe the inconsistencies _____
☐	☐	14.	Is this plan consistent with the municipal Official Sewage Facilities Plan? If no, describe the inconsistencies _____
☐	☐	15.	Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____
☐	☐	16.	Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
☐	☐		If yes, is the proposed waiver consistent with applicable ordinances? If no, describe the inconsistencies _____
		17.	Name, title and signature of planning agency staff member completing this section: Name: _____ Title: _____ Signature: _____ Date: _____ Name of Municipal Planning Agency: _____ Address _____ Telephone Number: _____

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

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

The planning agency must complete this component within 60 days.

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

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

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

Background

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

Who Should Complete the Component?

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

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

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

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

Section A. Project Name

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

Section B. Review Schedule

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

Section C. Agency Review

1. Answer the yes/no questions and provide any descriptive information necessary on the lines provided. Attach additional sheets, if necessary.

2. Complete the name, title, and signature block.

Section D. Additional Comments

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

3850-FM-BCW0362C 6/2016

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DEP Code #:

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

Central Catholic High School

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

1. Date plan received by county or joint county health department 6/17/2025

   Agency name Allegheny County Health Department (ACHD)

2. Date review completed by agency 7/9/2025

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

Yes	No		
☒	☐	1.	Is the proposed plan consistent with the municipality's Official Sewage Facilities Plan? If no, what are the inconsistencies?
☐	☒	2.	Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe
☐	☒	3.	Is there any known groundwater degradation in the area of this proposal? If yes, describe
☒	☐	4.	The county or joint county health department recommendation concerning this proposed plan is as follows: ACHD recommends approval. Please see attached letter.
		5.	Name, title and signature of person completing this section:

Name: Issa Tijani

Title: Environmental Health Engineer

Signature:

Date: 7/10/2025

Name of County Health Department: Allegheny County Health Department

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

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.

Appendix H: Alternative Analysis

1 Allegheny Square, Suite 402
Pittsburgh, PA 15212
724-638-8500

May 14th, 2025

COMPONENT 3, SECTION H. ALTERNATIVE ANALYSIS
BEDFORD DWELLINGS PHASE II
CITY OF PITTSBURGH
ALLEGHENY COUNTY, PENNSYLVANIA

The proposed sanitary sewage flow will discharge into an existing sanitary sewer treatment facility, the ALCOSAN Wastewater Treatment Plant. Proposed sewage flows will be collected on-site by a proposed gravity sanitary sewer system, which will tie into the existing sanitary system. It will then travel to the ALCOSAN Wastewater Treatment Facility.

The development drains to existing pipe systems along S Neville Street. Existing and proposed demands consider the type of establishment, historical data, number of public and private bathrooms, and occupancy of the facility.

The method for sewage disposal was chosen for multiple reasons. For the site to be developed, sections of the existing sewers will be extended to serve the proposed development. No offsite impacts are proposed. An onsite wastewater treatment facility would be undesirable for an educational development due to the size of the development, its proximity to pedestrian-oriented spaces, and a lack of an appropriate discharge location.