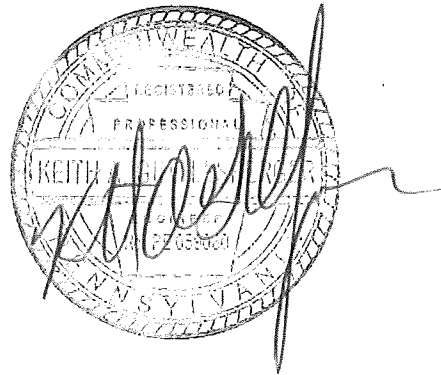


RECEIVED
5/16/19

COMPONENT 3 SEWAGE FACILITIES PLANNING MODULE PACKAGE

**PETERSEN SPORTS COMPLEX
SUPPORT BUILDING RENOVATION
CITY OF PITTSBURGH, ALLEGHENY COUNTY**



Prepared by

**H.F. LENZ
COMPANY**
1407 Scalp Avenue
Johnstown, Pennsylvania 15904

*March 4, 2019
HFL File No. 2018-2045.02*

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TRANSMITTAL LETTER FOR SEWAGE FACILITIES PLANNING MODULE

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

TO: Approving Agency (DEP or delegated local agency)
PADEP - Southwest Regional Office
400 Waterfront Drive, Pittsburgh, PA 15222-4745

Date _____

Dear Sir/Madam:

Attached please find a completed sewage facilities planning module prepared by Keith A. Gindlesperger, P.E.
(Name)
Principal, H.F. Lenz Company for Petersen Sports Complex Support Bldg. Renovation
(Title) (Name)
a subdivision, commercial, or industrial 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 (Official Plan), and is ☐ adopted for submission to DEP ☐ transmitted to the delegated LA for approval in accordance with the requirements of 25 Pa. Code Chapter 71 and the *Pennsylvania Sewage Facilities Act* (35 P.S. §750),

OR

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

Check Boxes

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

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

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

Municipal Secretary (print)

Signature

Date



RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

RESOLUTION OF THE (SUPERVISORS) (COMMISSIONERS) (COUNCILMEN) of the City of Pittsburgh
(TOWNSHIP) (BOROUGH) (CITY), Allegheny COUNTY, PENNSYLVANIA (hereinafter "the municipality").

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 (DEP) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, require the municipality to adopt an Official Sewage Facilities 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 land development conforms to a comprehensive program of pollution control and water quality management, and

WHEREAS the University of Pittsburgh
land developer

Petersen Sports Complex Support Building, and described in the attached Sewage Facilities Planning Module, and
name of subdivision

proposes that such subdivision be served by: (check all that apply), ☐ sewer tap-ins, ☒ sewer extension, ☐ new treatment facility, ☐ individual onlot systems, ☐ community onlot systems, ☐ spray irrigation, ☐ retaining tanks, ☐ other, (please specify). _____

WHEREAS, the City of Pittsburgh
municipality finds that the subdivision described in the attached

Sewage Facilities Planning Module conforms to applicable sewage related zoning and other sewage related municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the (Supervisors) (Commissioners) (Councilmen) of the (Township) (Borough) (City) of Pittsburgh hereby adopt and submit to DEP for its approval as a revision to the "Official Sewage Facilities Plan" of the municipality the above referenced Sewage Facilities Planning Module which is attached hereto.

I _____, Secretary, _____
(Signature)

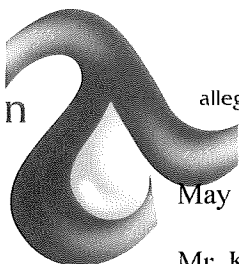
Township Board of Supervisors (Borough Council) (City Councilmen), hereby certify that the foregoing is a true copy of the Township (Borough) (City) Resolution # _____, adopted, _____, 20____.

Municipal Address:

Seal of
Governing Body

Telephone _____

alcosan



allegheny county
sanitary authority
TM

May 29, 2019

RECEIVED

JUN 05 '19

H.F. LENZ CO.

Mr. Keith Gindlesperger
H.F. Lenz Company
1407 Scalp Avenue
Johnstown, PA 15904

**Re: Petersen Sports Support Building Renovation – City of Pittsburgh
PA DEP Sewage Facilities Planning Module
ALCOSAN Regulator Structure M-19-00**

Dear Mr. Gindlesperger:

We have reviewed the Planning Module Component 3 for the referenced project. The project will generate an estimated flow of 1,725 GPD in the ALCOSAN Monongahela Interceptor and Woods Run Treatment Plant.

The capacity at the M-19 Regulator Structure is approximately 12.1 mgd. The monitored peak dry weather flow is approximately 5.81 mgd. 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 during wet weather periods. This limitation will be addressed as ALCOSAN implements its wet weather facilities plan.

ALCOSAN requests that this letter be made part of the planning module submission. The signed Component 3 Planning Module is attached. The sewers in this project are to be designed as separated sanitary and storm sewers. If you have any questions regarding this matter, please contact me at 412-732-8004.

Sincerely,

ALLEGHENY COUNTY SANITARY AUTHORITY

Michael Lichte, P.E.
Manager of Planning

Attachment

cc: T. Dean (w/o attachment)
D. Thornton (w/o attachment)
Shawn McWilliams (w/o attachment)
Barry King, PWSA (w/o attachment)
T. Flanagan/PaDEP (w/o attachment)
M. Scheer/ACHD (w/o attachment)

Members of the Board

Sylvia C. Wilson
Chair Person

Gregory A. Jones
Jack Shea
Rep. Harry Readshaw
John Weinstein
Corey O'Connor
Brenda L. Smith

Arletta Scott Williams
Executive Director

Arthur M. Tamilia, Esq.
*Director
Environmental Compliance*

William H. Inks, CPA
*Director
Finance & Administration*

Jan M. Oliver
*Director
Regional Conveyance*

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

Kimberly N. Kennedy, P.E.
*Director
Engineering & Construction*

Jeanne K. Clark
*Director
Governmental Affairs*

Joseph Vallarian
*Director
Communications*



Pittsburgh
Water & Sewer
Authority

M-19

May 14, 2019

Mr. Keith Gindlesperger
H.F. Lenz Company
1407 Scalp Avenue
Johnstown, PA 15904

**RE: Petersen Sports Complex Support Building Renovation
385 Champions Drive - 15213**

Dear Mr. Gindlesperger:

The Pittsburgh Water and Sewer Authority (PWSA) has reviewed your submitted PA DEP Sewage Facilities Planning Module Component 3.

PWSA has approved your submittal and signed Section J and is returning to you for processing to ALCOSAN for final signature. Contact Leslie Stevens at the City of Pittsburgh Law Department at (412-255-2005) to prepare the required City Resolution that Council will need to approve for this project.

Once you receive City Council Resolution, you must submit the complete package to the DEP for final review and approval. You must include all documentation including the approved City of Pittsburgh Council Resolution and any review fees.

Once PWSA receives a copy of the approved Sewage Facilities Planning Module from the DEP, PWSA will process the tap in plan. PWSA is not permitted to issue final approval or a PWSA Permit for connection to the water and/or sewer mains until approval from DEP is granted.

If you have any questions specific to PWSA feel free to contact me. For any general questions regarding the Planning Module you must contact the DEP.

Sincerely,

Matthew Smuts
Associate Project Manager

CC (via email): Thomas Flanagan – DEP
Kate Mechler – PWSA
Julie Ascioia - PWSA
Leslie Stevens – City of Pittsburgh Law Department
Michael Lichte - ALCOSAN
PWSA File



Pittsburgh
Water & Sewer
Authority

May 14, 2019

Mr. Thomas Flanagan
Sewage Planning Specialist Supervisor
PA Department of Environmental Protection
400 Waterfront Drive
Pittsburgh, PA 15222

RE: Petersen Sports Complex Support Building Renovation
385 Champions Drive - 15213
Sewage Facilities Planning Module
Sewer Tap Allocation

Dear Mr. Flanagan:

The Pittsburgh Water and Sewer Authority (PWSA) would like to authorize the use of the 2018 Sewer Tap Allocations for the following project:

Petersen Sports Complex Support Building Renovation
385 Champions Drive - 15213
4th Ward - City of Pittsburgh
1,725 Gallons Per Day = 4.31 DEP EDU's (400gpd/EDU)

If you have any questions, please feel free to contact me at (412) 255-8800 x 2663

Sincerely,

A handwritten signature in black ink that reads "Matthew Smuts". The signature is fluid and cursive, with a long horizontal line extending from the end.

Matthew Smuts
Associate Project Manager

CC (via email): Keith Gindlesperger - H.F. Lenz Company
Regis Ryan - PA DEP
Kate Mechler - PWSA
Julie Asciolla - PWSA
PWSA File



Pittsburgh
Water & Sewer
Authority

MEMO

To: Barry King *BK*
From: Matt Smuts *ms*
Date: May 14, 2019
Subject: **DEP Sewage Planning Module – Section J. Chapter 94**
Consistency Determination, Calculation Review for:
Petersen Sports Complex Support Building

Upon review of the submittal by H. F. Lenz Company for the above referenced development I have determined that the projected flows are less than the design capacity of the PWSA sewers and, therefore the sewers should have adequate capacity for the proposed development.

DEP Sewage Planning Module		Date: 5/14/2018	
Section J. Chapter 94 Consistency Determination		Calculation Review	
PROJECT NAME: Peterson Sports Complex Support Building		By: M. Smuts	
PROJECT FLOW:	800 gpd		
Formulas			
Manning Equation:		Q, flow, cfs	
Q = $(1.49/n) * A * R^{2/3} * S^{1/2}$		n, roughness coefficient	
$\Theta = 2 \arccos((r-d/r))$		S, slope from PWSA records (ft/ft)	
$A = r^2 (\Theta - \sin \Theta) / 2$		D, sewer diameter, ft	
$P_w = r * \Theta$		d, depth of flow measured, ft, (SUBMITTED WITH REPORT)	
$R_H = A / P_w$		Θ , central angle, radians	
		A, cross sectional area, ft ²	
		P_w , wetted perimeter, ft	
		R_H , hydraulic radius, ft	
SEWER PROPERTIES			Peaking Factor
n = 0.012	D = 1.25 ft		3.5 combined sewers
S = 0.1146	Material: VCP		3 sanitary sewers
DESIGN PEAK FLOW (FLOWING FULL)		AVERAGE DESIGN FLOW	
Q _{FULL} = 15,325,297 gpd		(Average flow is design peak flow divided by peaking factor)	
D = 1.250 ft		Q _{FULL, avg} = 4,378,656.17 gpd	
r = 0.625 ft			
Θ = 6.28 rad			
A = 1.23 ft ²			
P_w = 3.93 ft			
R_H = 0.313 ft			
Q = 23.75 cfs			
PRESENT PEAK FLOW		PRESENT AVERAGE FLOW	
Q _{peak} = 12,134,778 gpd		(Average flow is present peak flow divided by peaking factor)	

d=	0.833	ft	*Flow Depth	$Q_{avg} =$	3,467,080	gpd		
r =	0.630	ft						
$\Theta =$	3.80	rad						
A=	0.8751	ft ²						
$P_w =$	2.393	ft						
$R_H =$	0.3657	ft						
Q=	18.809	cfs						
PROJECTED AVERAGE FLOW								
$Q_{avg, PROJECTED} =$	$Q_{peak} projected / Peaking factor$		$Q_{pk, PROJECTED} = (Present Peak flow + Project Flow) * 1.05$					
$Q_{avg, PROJECTED} =$	3,640,673.55	gpd	$Q_{peak, PROJECTED} =$	12,742,357	gpd			
VALUES BY ENGINEER								
Q_{full}	11,931,010	-22%	* Design and/or Permitted Capacity Peak in gpd					
$Q_{full, avg}$	0	-100%						
Q_{avg}	3,406,090	-2%						
Q_{peak}	0	-100%						
$Q_{avg, proj}$	3,580,596	-2%						
$Q_{peak, proj}$	12,529,371	-2%	Projected peak flow, not peak design flow					



A.F. LENZ
COMPANY

Engineering

1407 Scalp Avenue
Johnstown, PA 15904
Phone: 814-269-9300

March 4, 2019

Mr. Matthew Smutts
Pittsburgh Water & Sewer Authority
Penn Liberty Plaza 1
1200 Penn Avenue
Pittsburgh, PA 15222

Subject: University of Pittsburgh
Petersen Sports Complex Support Building Renovation
City of Pittsburgh, Allegheny County, Pennsylvania
HFL File No. 2018-2045.02

RE: Sewage Planning

, Dear Mr. Smutts:

The University of Pittsburgh is proposing to construct a three-story addition as well as a third floor onto their existing two-story building located at 385 Champions Drive, Pittsburgh, Pennsylvania. Specifically, the project will encompass the building addition as well as site work to accommodate new storm water runoff and site utilities. The building addition will be connected to the existing service lateral but will create an estimated additional sewage flow of 1,725 GPD. Refer to the enclosed Site Location Map and Site Plan for the location of the project area and proposed improvements.

As part of this project, the Pennsylvania Department of Environmental Protection (PADEP) requires that sewage facilities planning be completed. Therefore, we are requesting your assistance in completing Section G (Page 3), Section J (Pages 6 and 7), and Section O (Page 8) within the enclosed Sewage Facilities Planning Module Component 3.

Enclosed for your use in completing the Component 3, please find five (5) three ring binder packages containing the following information:

- PADEP Form 3800-FM-BPNPSM0355, **Transmittal Letter for Sewage Facilities Planning Module**
- PADEP Form 3800-FM-BPNPSM0356, **Resolution for Plan Revisions for New Land Development**
- PADEP Form 3800-FM-BPNPSM0353, **Sewage Facilities Planning Module, Component 3 Sewage Collection and Treatment Facilities** (and associated documentation including Project Narrative, Alternative Analysis, PNDI Internet Database Search Results, Completeness Checklist, Site Location Map, and Site Plan)



H.F. LENZ
COMPANY

Mr. Matthew Smutts
March 4, 2019
Page 2

We respectfully request that all five (5) originals be completed. Upon completion, please return the binders to our office so we can forward to ALCOSAN for completion of the wastewater treatment system information. In the meantime, should you have any questions or require additional information, please feel free to contact our office.

Sincerely,

H.F. LENZ COMPANY

Joshua J. Shearman, E.I.T.

I:\PITT\PROJECTS\2018\182000\182045X02\LETTERS\PWSA\MATT SMUTTS\SENT\19_0225 JIS COMPONENT 3.DOCX

Enclosures

cc: John E. Nolan, Jr. - DLA+ Architecture & Interior Design
Scott A. Kraynak - H.F. Lenz Company
Keith A. Gindlesperger - H.F. Lenz Company



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 Petersen Sports Complex Support Building Renovation

2. Brief Project Description The University of Pittsburgh is proposing to construct a three-story addition as well as a third floor onto its existing two-story building located at 385 Champions Drive, Pittsburgh, Pennsylvania. Specifically, the project will encompass building addition as well as site work to accommodate new storm water runoff and site utilities.

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

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

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name

Petersen Sports Complex Support Building Renovation

Site Location Line 1
385 Champions Drive

Site Location Line 2

Site Location Last Line -- City
Pittsburgh

State
PA

ZIP+4
15213

Latitude
40.443936

Longitude
-79.967023

Detailed Written Directions to Site The site is located near the intersection of Robinson Street and Champions Drive at the Olympic Sports Complex, see coordinates.

Description of Site Existing building at the Olympic Sports Complex.

Site Contact (Developer/Owner)

Last Name	First Name	MI	Suffix	Phone	Ext.
Bernotas	Scott			412-624-9510	

Site Contact Title Associate Vice Chancellor	Site Contact Firm (if none, leave blank) University of Pittsburgh
---	--

FAX	Email bernotas@pitt.edu
-----	----------------------------

Mailing Address Line 1 3400 Forbes Avenue, Eureka Building	Mailing Address Line 2
---	------------------------

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

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

Last Name	First Name	MI	Suffix
Gindlesperger	Keith	A	P.E.

Title Principal	Consulting Firm Name H.F. Lenz Company
--------------------	---

Mailing Address Line 1 1407 Scalp Avenue	Mailing Address Line 2
---	------------------------

Address Last Line -- City Johnstown	State PA	ZIP+4 15904	Country
--	-------------	----------------	---------

Email kgindlesperger@hflenz.com	Area Code + Phone 814-269-9300	Ext. 339	Area Code + FAX 814-269-9301
------------------------------------	-----------------------------------	-------------	---------------------------------

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 & Sewer Authority

F. PROJECT NARRATIVE (See Section F of instructions)

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

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

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

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

1. COLLECTION SYSTEM

a. Check appropriate box concerning collection system

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

Clean Streams Law Permit Number _____

b. Answer questions below on collection system

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

Connections _____

Name of:

existing collection or conveyance system _____

owner _____

existing interceptor _____

owner _____

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 _____

NPDES Permit Number for existing facility PA 0025984

Clean Streams Law Permit Number _____

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

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

As an authorized representative of the permittee, I confirm that the ALCOSAN
(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 Michael L. Cotto

Agent Signature [Signature] Date 5/29/19

(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. | j. Any designated recreational or open space area. |
| b. Lot lines and lot sizes. | k. Wetlands - from National Wetland Inventory Mapping and USGS Hydric Soils Mapping. |
| c. Adjacent lots. | l. Flood plains or Flood prone areas, floodways, (Federal Flood Insurance Mapping) |
| d. Remainder of tract. | m. Prime Agricultural Land. |
| 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. | n. Any other facilities (pipelines, power lines, etc.) |
| f. Show tap-in or extension to the point of connection to existing collection system (if applicable). | o. Orientation to north. |
| g. Existing and proposed water supplies and surface water (wells, springs, ponds, streams, etc.) | p. Locations of all site testing activities (soil profile test pits, slope measurements, permeability test sites, background sampling, etc. (if applicable). |
| h. Existing and proposed rights-of-way. | q. Soils types and boundaries when a land based system is proposed. |
| i. Existing and proposed buildings, streets, roadways, access roads, etc. | 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 1,725 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	4,378,656	15,325,297	3,467,080	12,134,778	3,640,674	12,742,357
Conveyance		12.1mgd	5.1mgd	5.81mgd	5.15	5.86mgd
Treatment		250mgd	194.8mgd	250mgd	194.8	250mgd

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

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

Agent Signature [Signature] Date 5/14/2019

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

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSSAN

Name of Responsible Agent M. D. L. L. L.

Agent Signature [Signature]

Date 5/29/19

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 ALCOSSAN

Name of Responsible Agent M. D. L. L. L.

Agent Signature [Signature]

Date 5/29/19

☐ **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 1725 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.

Keith A. Gindlesperger, P.E. - H.F. Lenz Company

Name (Print)

Principal

Title

1407 Scalp Avenue, Johnstown, PA 15904

Address

3/4/19

Signature

Date

814-269-9300

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 \$ 250.00 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.

$$\# \underline{5} \text{ Lots (or EDUs) X } \$50.00 = \$ \underline{250.00}$$

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:

$$\# \underline{\hspace{2cm}} \text{ Lots (or EDUs) X } \$35.00 = \$ \underline{\hspace{2cm}}$$

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)

Shearman, Joshua J.

From: Shearman, Joshua J.
Sent: Friday, February 22, 2019 8:48 AM
To: Gindlesperger, Keith A.
Cc: Kraynak, Scott A.
Subject: FW: Petersen Sports Complex Sewage Planning Module Component 4A
Attachments: Petersen Sports Complex 4A.pdf

Follow Up Flag: [>To be processed by MailToFile<]
Flag Status: Flagged

Tracking:	Recipient	Delivery	Read
	Gindlesperger, Keith A.	Delivered: 2/22/2019 8:47 AM	Read: 2/22/2019 9:18 AM
	Kraynak, Scott A.	Delivered: 2/22/2019 8:47 AM	Read: 2/22/2019 9:36 AM

>| MailToFile Info: >]
Arch. d.d.: 2/22/2019 8:48:00 AM
Arch. nr.: 2
Arch. OK: >]

From: Battistone, Martina <martina.battistone@pittsburghpa.gov>
Sent: Friday, February 22, 2019 8:31 AM
To: Shearman, Joshua J. <JShearman@hflenz.com>
Subject: RE: Petersen Sports Complex Sewage Planning Module Component 4A

Josh,
Attached is your completed Component 4A Form. I have sent it along to our City Solicitor and DEP, per my procedures, but you may submit your completed packages as planned as well.
Please let me know if you need anything else.

Best,
Marti

From: Shearman, Joshua J. [<mailto:JShearman@hflenz.com>]
Sent: Wednesday, February 13, 2019 2:48 PM
To: Battistone, Martina <martina.battistone@pittsburghpa.gov>
Cc: Gindlesperger, Keith A. <KGindlesperger@hflenz.com>; Kraynak, Scott A. <SKraynak@hflenz.com>
Subject: Petersen Sports Complex Sewage Planning Module Component 4A

H.F. Lenz Company ShareFile Attachments

Expires February 20, 2019

19_0213 JJS Component 4A.pdf

10.8 MB

Download Attachments

Joshua Shearman uses ShareFile to share documents securely. [Learn More.](#)

Dear Ms. Battistone,

Attached is the Sewage Planning Module Component 4A for the Petersen Sports Complex project for your completion. The download link to the ShareFile site is only valid for seven (7) days. We are also sending one set of hardcopies to your office for your convenience. Should you have any questions or require additional information, please feel free to contact our office.

H.F. Lenz Company ShareFile Attachments

Expires February 20, 2019

19_0213 JJS Component 4A.pdf

10.8 MB

Download Attachments

Joshua Shearman uses ShareFile to share documents securely. [Learn More.](#)

Sincerely,

Joshua J. Shearman, E.I.T.

H.F. Lenz Company

Phone: 814-269-9300 x288

Email: JSHEARMAN@HFLENZ.COM



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

Petersen Sports Complex Support Building Renovation

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

1. Date plan received by municipal planning agency 2-13-192. Date review completed by agency 2-22-19

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

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

SECTION C. AGENCY REVIEW (continued)

- | Yes | No | |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 13. Is this proposal consistent with the ordinance?
If no, describe the inconsistencies _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 14. Is this plan consistent with the municipal Official Sewage Facilities Plan?
If no, describe the inconsistencies _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 15. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?
If yes, describe _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 16. Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision? |
| <input type="checkbox"/> | <input type="checkbox"/> | If yes, is the proposed waiver consistent with applicable ordinances?
If no, describe the inconsistencies _____ |

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

Name: Marti BattistoneTitle: Senior Environmental PlannerSignature: MBattistoneDate: 2-22-19Name of Municipal Planning Agency: City of Pittsburgh, City PlanningAddress: 200 Ross St. 4th Floor Pittsburgh, PA 15219Telephone Number: (412) 255-2516**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.

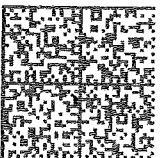
This component and any additional comments are to be returned to the applicant.



Water Pollution Control
& Solid Waste Management
3901 Penn Avenue
Building 5
Pittsburgh, PA 15224-1318



PRESORTED
FIRST CLASS

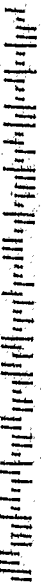


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Mr. Joshua J. Shearman, E.I.T.
1407 Scalp Avenue
Johnstown, PA 15904

FEB 22 19

ACX-AEF 15904



27-5

COUNTY OF



ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

February 19, 2019

Joshua J Shearman, E.I.T.
1407 Scalp Avenue
Johnstown, PA 15904

RE: SEWAGE FACILITIES PLANNING MODULE
PETERSON SPORTS COMPLEX RENOVATION
PITTSBURGH, PA. 15213

Dear Mr. Shearman:

Enclosed is a signed copy of Component 4C, County or Joint County Health Department Review, for the above-referenced development. This Planning Module Component was received on February 13, 2019. The project proposes the following:

Project Description:	3 story addition as well as adding a 3rd floor to the existing building at 365 Robinson Street, University of Pittsburgh Peterson Sports Center.
Sewage Flow:	1,725 GPD
Conveyance:	Connects to existing sewer line on owner's property via 6" lateral to PWSA 15" combination sewer to an 18" combination sewer and eventually to the ALCOSAN Interceptor M-19 then to the ALCOSAN sewage treatment plant
Sewer's Owner:	PWSA
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, Ivo Miller, Plumbing Program Manager at 412-578-8393.

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

Sincerely,

Michael W. Scheer
Environmental Health Administrator II
Water Pollution Control & Solid Waste Management

Enclosure

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



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

WATER POLLUTION CONTROL & SOLID WASTE MANAGEMENT
3901 PENN AVENUE • BUILDING 5 • PITTSBURGH, PA 15224-1318
PHONE: 412.578.8040 • FAX: 412.578.8053 • WWW.ACHD.NET





COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

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

Peterson Complex

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

1. Date plan received by county or joint-county health department. February 13, 2019

Agency name Allegheny County Health Department (ACHD)

2. Date review completed by agency February 15, 2019

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: Michael Scheer

Title: Environmental Health Administrator II

Signature: 

Date: February 19, 2019

Name of County Health Department: ACHD

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

Telephone Number: 412-578-8388

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

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

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

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



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

Remove and recycle these instructions prior to mailing component to the approving agency (DEP or delegated local 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 or agencies 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 (DEP 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, 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 it deems necessary, as described in the form. Attach additional sheets, if necessary.



H.F. LENZ
COMPANY

PROJECT NARRATIVE

PETERSEN SPORTS COMPLEX SUPPORT BUILDING RENOVATION PITTSBURGH, PENNSYLVANIA

The University of Pittsburgh is proposing to construct a three-story addition as well as a third floor onto their existing two-story building known as the Petersen Sports Complex Support Building located at 385 Champions Drive in the 5th Ward of the City of Pittsburgh, Pennsylvania. The block and lot number for the property is 27-N-201. Specifically, the project will encompass the building addition as well as site work to accommodate new storm water runoff and site utilities.

Anticipated sanitary flows were calculated by utilizing anticipated occupancy loads and facility uses to estimate sewage generated in gallons per day (GPD). It was assumed that an office space would generate 10 GPD, a classroom would generate 3 GPD per seat, and a locker room would generate 17 GPD per locker.

Proposed

PROPOSED SANITARY SEWER FLOW							
FACILITY	FACILITY USE						TOTAL SANITARY SEWAGE FLOW (GPD)
	OFFICE		CLASSROOM		LOCKER ROOM		
	NUMBER OF OFFICES	SANITARY SEWER FLOW (AMOUNT x 10 GPD)	NUMBER OF SEATS	SANITARY SEWER FLOW (AMOUNT x 3 GPD)	NUMBER OF LOCKERS	SANITARY SEWER FLOW (AMOUNT x 17 GPD)	
1st Floor	0	0	0	0	6S	110S	110S
2nd Floor	11	110	0	0	0	0	110
3rd Floor	30	300	70	210	0	0	510
				TOTAL PROPOSED SANITARY SEWER FLOW =			172S 5.0 GPD EDUs

Increase in Sewage Flow = 1,725 gpd

Existing sanitary sewer connections will remain unchanged for the final construction of the addition. The proposed addition will be connected to the existing sewer line on the owner's property by a 6-inch lateral with an estimated additional sewage flow of 1,725 GPD. The additional flow is based on the anticipated occupancy loads and facility uses determined above.

The building is serviced by a 6-inch fire protection line and a 3-inch domestic service line. The existing water meter will need to be resized to accommodate the additional flows to service the additional third floor and three story addition.



H.F. LENZ
COMPANY

ALTERNATIVE NARRATIVE

PETERSEN SPORTS COMPLEX SUPPORT BUILDING RENOVATION

Sanitary sewage from the building expansion will be conveyed to the existing sanitary sewer located near the intersection of Champions Drive and Robinson Street where it will continue to utilize the existing lateral connected to the existing PWSA main. Upon completion, the building expansion will generate an increase of 1,725 gpd or 5 EDU's. Refer to the Project Narrative. This disposal method is the ultimate method which will serve the development beyond a five-year period.

The only potential alternative sewage disposal method for the proposed development would be the construction of an on-lot sewage system. This alternative was not feasible due to the lot size and insufficient area to construct an on-lot system.

SEWER PLANNING MODULE DRY WEATHER FLOW CALCULATIONS

**PETERSEN SPORTS COMPLEX
SUPPORT BUILDING RENOVATION
CITY OF PITTSBURGH, ALLEGHENY COUNTY**



Prepared by

HFC H.F. LENZ
COMPANY
1407 Scalp Avenue
Johnstown, Pennsylvania 15904

*March 4, 2019
HFL File No. 2018-2045.02*



H.F. LENZ
COMPANY

PROJECT NARRATIVE

PETERSEN SPORTS COMPLEX SUPPORT BUILDING RENOVATION PITTSBURGH, PENNSYLVANIA

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FACILITY	FACILITY USE						TOTAL SANITARY SEWAGE FLOW (GPD)	
	OFFICE		CLASSROOM		LOCKER ROOM			
	NUMBER OF OFFICES	SANITARY SEWER FLOW (AMOUNT x 10 GPD)	NUMBER OF SEATS	SANITARY SEWER FLOW (AMOUNT x 3 GPD)	NUMBER OF LOCKERS	SANITARY SEWER FLOW (AMOUNT x 17 GPD)		
1st Floor	0	0	0	0	65	110S	110S	
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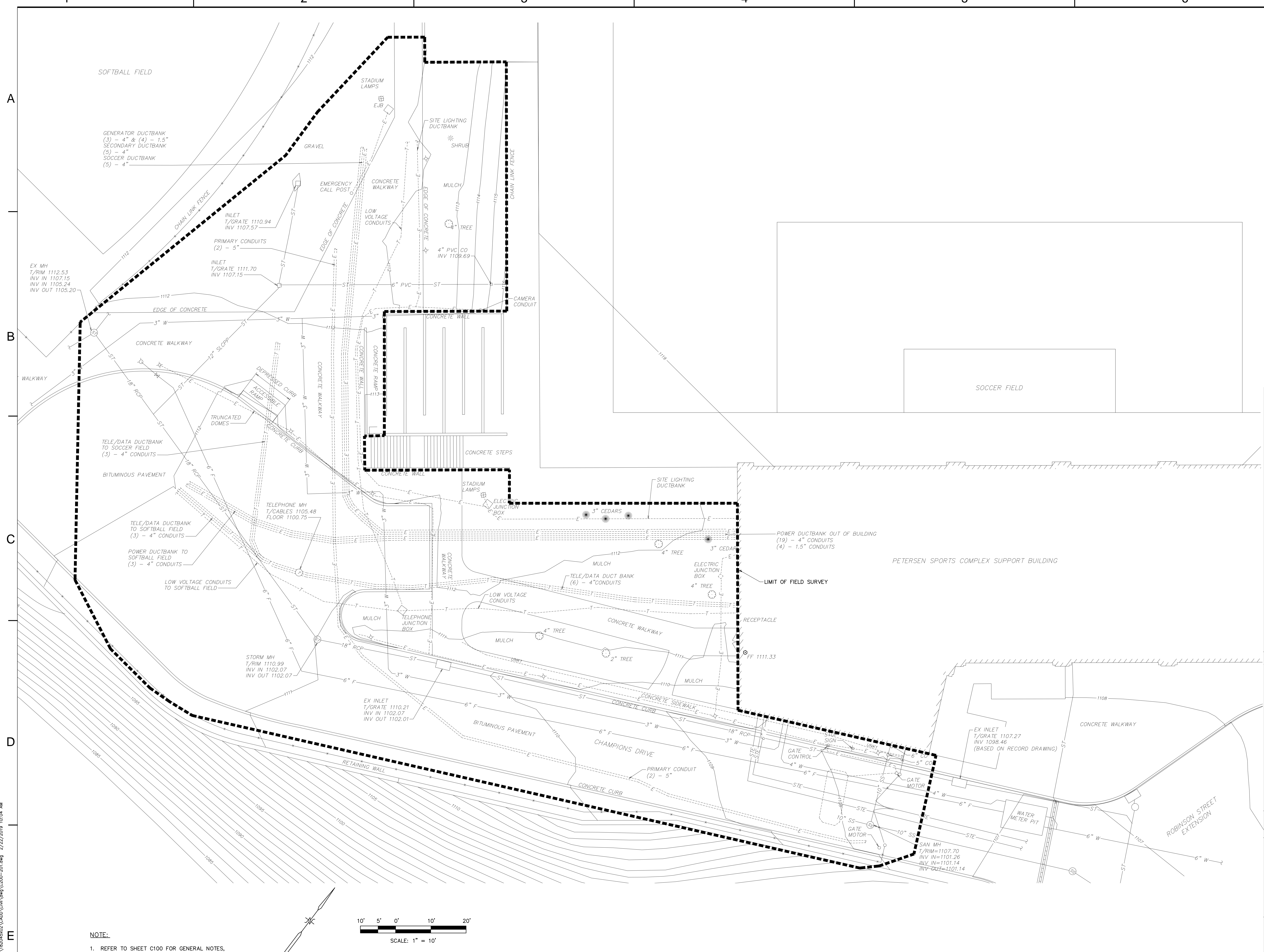
SEWER FROM PETERSEN SPORTS COMPLEX (MH027N011) TO POC M-19B

MANHOLE NUMBER	INVERT ELEVATION	LENGTH (FT)	PIPE SIZE (IN)	SLOPE (FT/FT)	CAPACITY (CFS)	CAPACITY (MGD)	AREA (ACS)	FLOW (CFS)	PERCENT CAPACITY
ORIGINAL CONNECTION IN PRIVATE SEWER TO MH027N011									
MH027N011	1085								
MH0278A001	1082.73	175	12	0.0130	4.07	2.63			
MH028A002	1080.49	22.99	15	0.0974	20.20	13.05			
JCT028A001	1038.41	391.03	15	0.1076	21.23	13.72			
JCT028E005	996.32	464.51	15	0.0906	19.48	12.59			
MH028E003	992.85	30.28	15	0.1146	21.91	14.16	25 Acres	94.25	430.22%
JCT028E001	977.14	113.05	20	0.1390	51.95	33.58			
MH028I001	910	798.14	20	0.0841	40.42	26.12	43 Acres	162.11	401.04%
MH028I004	902.5	149.05	36	0.0503	149.89	96.87			
JCT028I002	878.54	155.16	36	0.1544	262.57	169.69			
BK028I003	850.44	137.76	36	0.2040	301.78	195.03			
MH028I005	848.04	34.34	36	0.0699	176.65	114.16			
MH028I014	832.19	245.91	36	0.0645	169.64	109.63			
BK028I001	814.99	134.05	36	0.1283	239.35	154.68			
BK028I002	778.34	65.92	36	0.5560	498.23	321.99			
MH01S003	749.84	96.4	36	0.2956	363.31	234.80			
JCT01S004	741.84	59.22	36	0.1351	245.59	158.72	53 Acres	199.81	81.36%
MH01S018	736.4	2.46	60	2.2114	3879.95	2507.51			
ADC011SM19BA	725.3	158.22	60	0.0702	691.08	446.62	59 Acres	222.43	32.19%

Flow Calculations based on 25 Year intensity (5.8 in/hr) and C value of 0.65 (moderately steep residential approx. 50% impervious)

XXX GPD Addition	PWSA EDU
X	

REVISIONS		
NO.	DATE	DESCRIPTION



- NOTE:
1. REFER TO SHEET C100 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
 2. EXISTING CONDITIONS PLAN BASED ON TOPOGRAPHIC FIELD SURVEY WITHIN LIMIT DEPICTED SUPPLEMENTED WITH RECORD DRAWING INFORMATION PROVIDED BY OWNER.



FOSTER PLAZA 9
SUITE 200
750 HOLIDAY DRIVE
PITTSBURGH, PA 15220

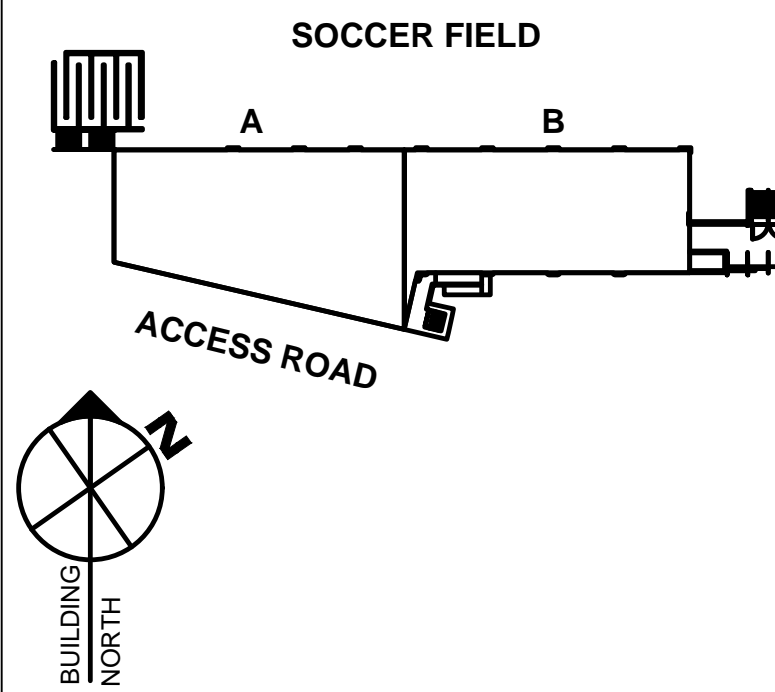


H.F. LENZ COMPANY
1051 Brinton Road
Pittsburgh, PA 15221
Phone: 412-371-9073
caso@hflen.com

Engineers
Planners
Surveyors
Energy Consultants

Pittsburgh, PA 15221
FAX: 412-371-9076
www.hflen.com

KEYPLAN



University of Pittsburgh
Facilities Management



Project Name: Petersen Sports Complex Support Building Renovation
365 Robinson Ext.
Pittsburgh, PA 15219

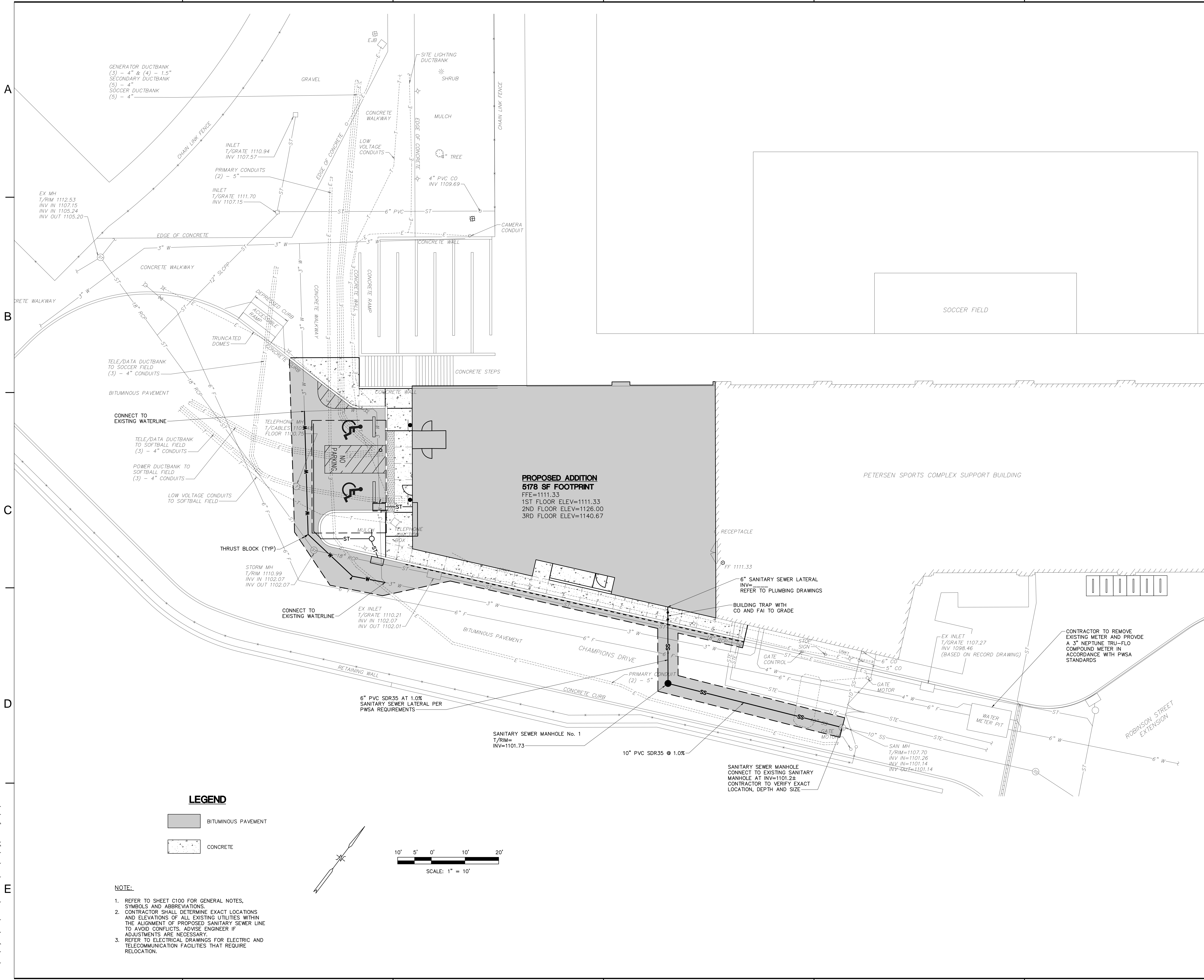
Job No.: X6543
Issue Date: 00.00.00

Drawing Description:
EXISTING CONDITIONS PLAN

CAD File Name: C200.dwg
Drawing Number: 10994-C200

Drawn By: EPL
Set Order: of

I:\VIT\Projects\2018\182000\182045-02\CADD\Civil\dwg\C500.dwg 2/22/2019 10:19 AM



REVISIONS		
NO.	DATE	DESCRIPTION

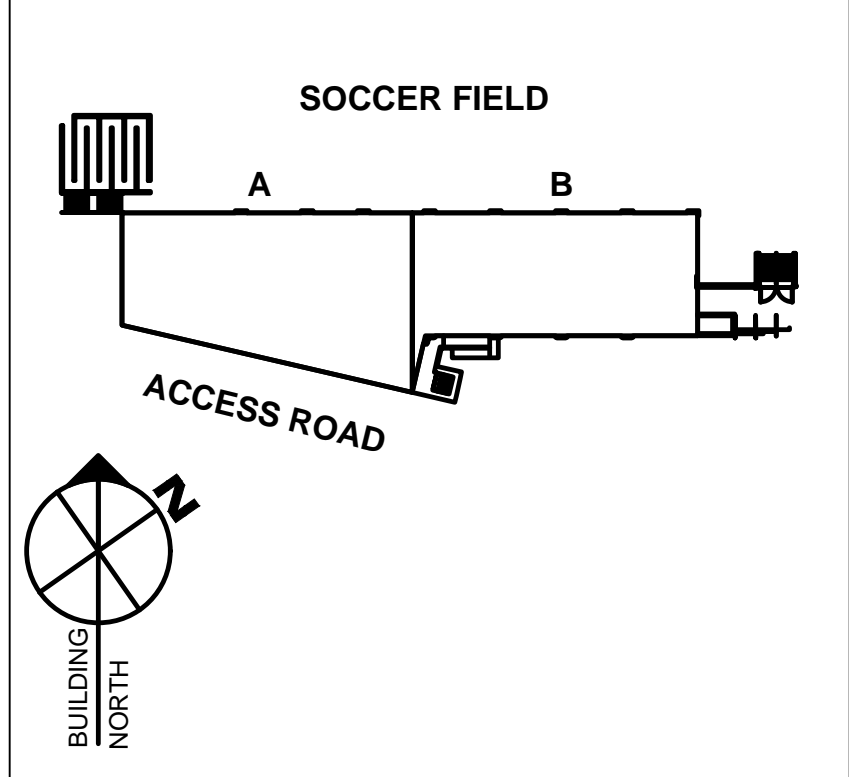


FOSTER PLAZA 9
SUITE 200
750 HOLIDAY DRIVE
PITTSBURGH, PA 15220

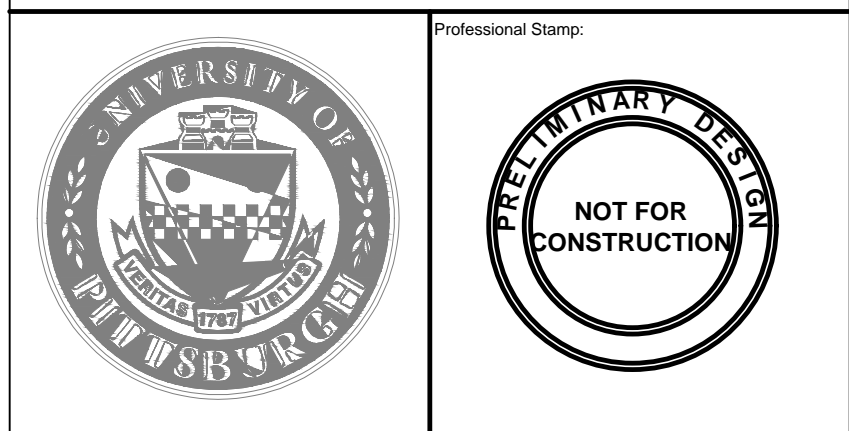
H.F. LENZ COMPANY
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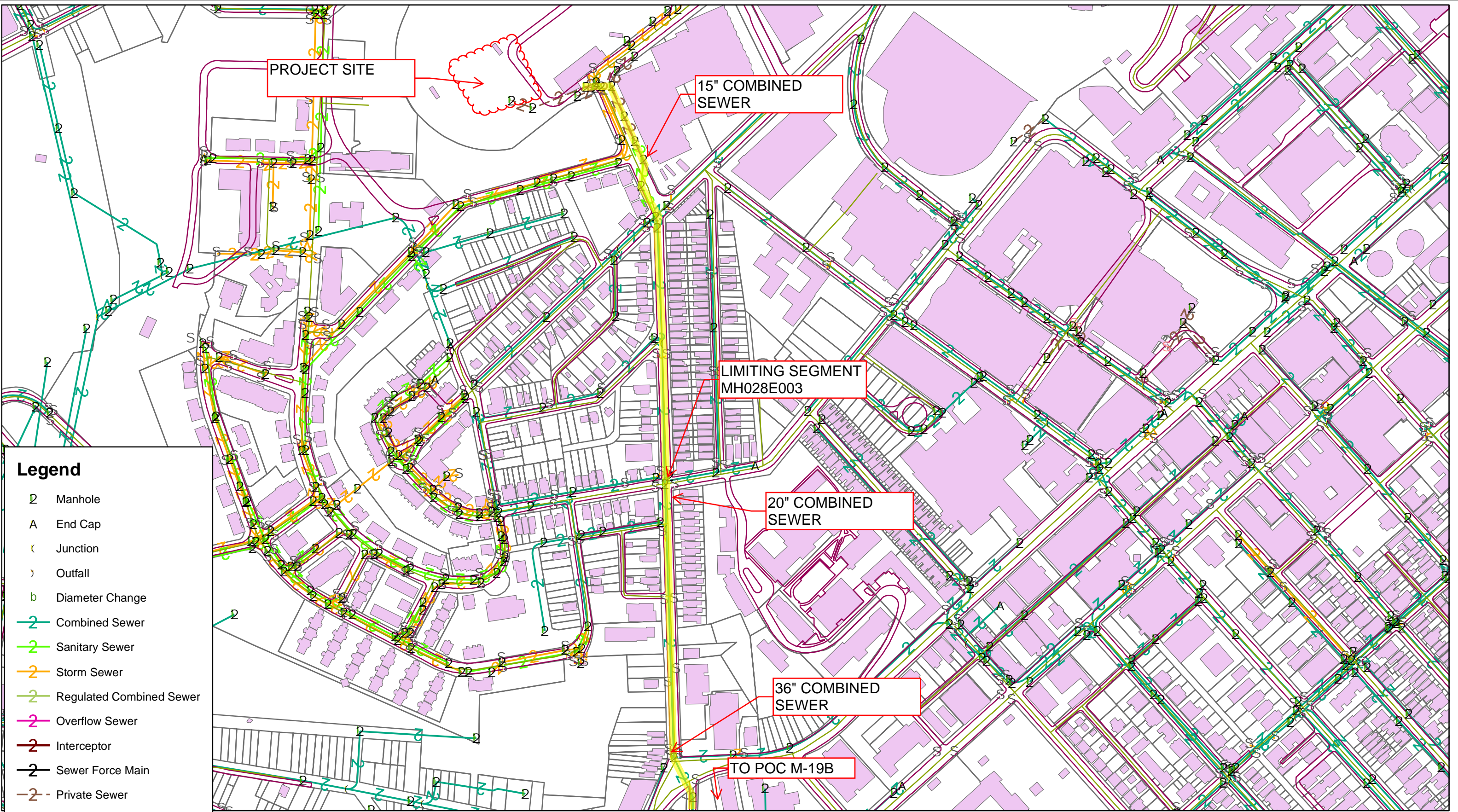
KEYPLAN



University of Pittsburgh
Facilities Management



Project Name: Petersen Sports Complex Support Building Renovation 365 Robinson Ext. Pittsburgh, PA 15219	Job No.: X6543 Issue Date: 00.00.00
Drawing Description: UTILITY PLAN	
CAD File Name: C500.dwg	Drawn By: EPL
Drawing Number: 10994-C500	Set Order: of



- Legend**
- 2 Manhole
 - A End Cap
 - (Junction
 -) Outfall
 - b Diameter Change
 - 2 Combined Sewer
 - 2 Sanitary Sewer
 - 2 Storm Sewer
 - 2 Regulated Combined Sewer
 - 2 Overflow Sewer
 - 2 Interceptor
 - 2 Sewer Force Main
 - 2 Private Sewer
 - 2 Undefined Sewer
 - S Inlet
 - S Private Inlet

Neither the City of Pittsburgh nor the PW&SA 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 PW&SA 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 PW&SA.

4

PGH₂O

Pittsburgh Water & Sewer Authority

0 90 180 360 540 720

Feet

M

M

MOTT MACDONALD

1200 Penn Avenue

Pittsburgh, PA 15222

SEWER MAPPING

PITTSBURGH, PA

FIGURE 1

Designed	Drawn	Checked	Approved	Date
	TRS			2/6/2019



Flush It!

See where your wastewater goes when you flush!

About



3 RIVERS PROUD



3 Rivers Wet Weather

A project by:



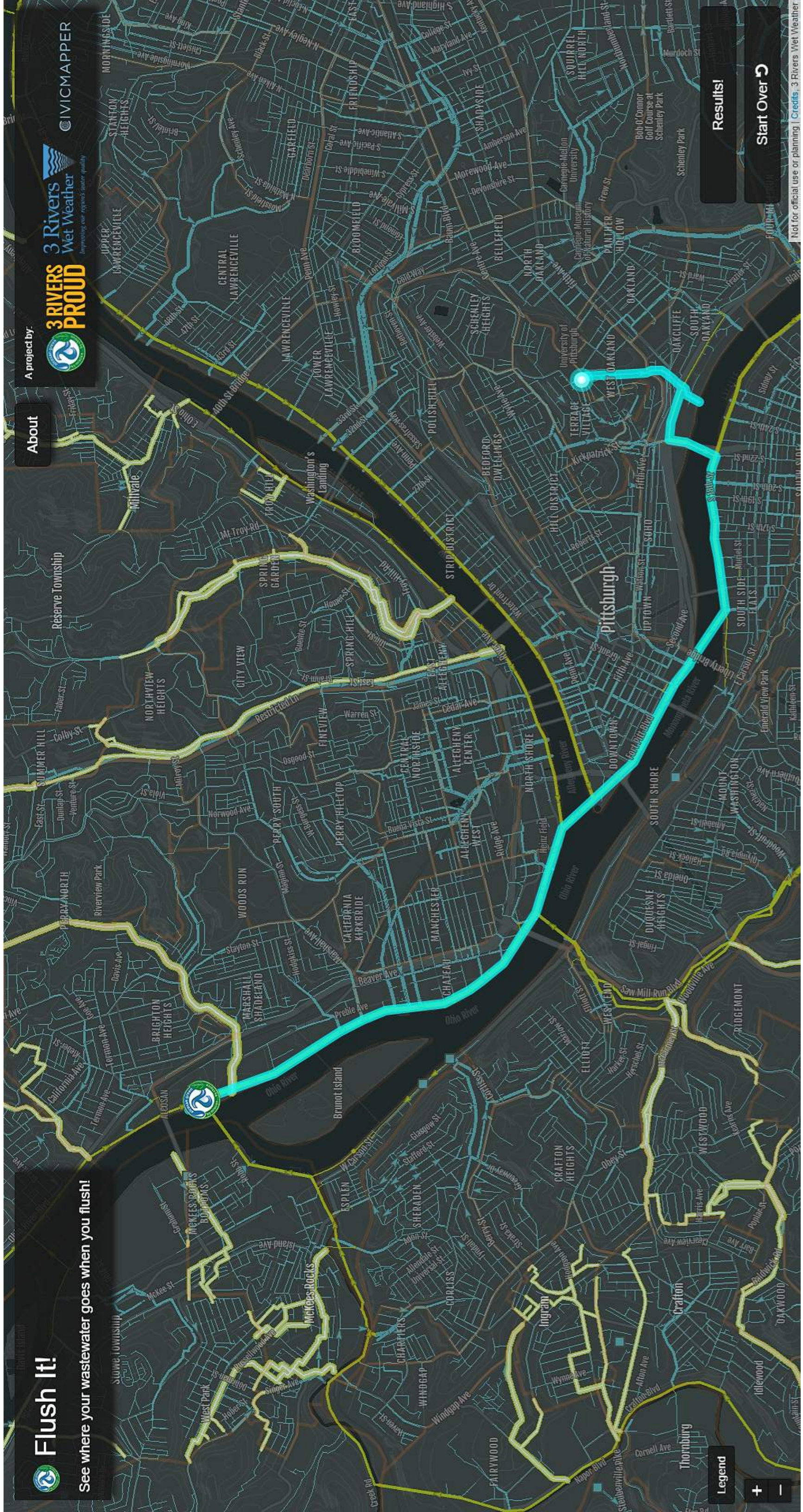
CIVIMAPPER

Results!

Start Over ↻

Legend

+ -





Flush It!

See where your wastewater goes when you flush!

About

A project by:



3 RIVERS
PROUD

3 Rivers
Wet Weather
Improving our region's water quality

CIVICMAPPER

Legend



Results!

Start Over ↺

Not for official use or planning | Credits, 3 Rivers Wet Weather



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

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

Peterson Complex

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

1. Date plan received by county or joint-county health department. February 13, 2019Agency name Allegheny County Health Department (ACHD)2. Date review completed by agency February 15, 2019

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: Michael ScheerTitle: Environmental Health Administrator IISignature: Date: February 19, 2019Name of County Health Department: ACHDAddress: 3901 Penn Avenue, Building #5, Pittsburgh PA 15224-1318Telephone Number: 412-578-8388

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

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

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

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

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

Remove and recycle these instructions prior to mailing component to the approving agency (DEP or delegated local 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 or agencies 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.

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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, 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.

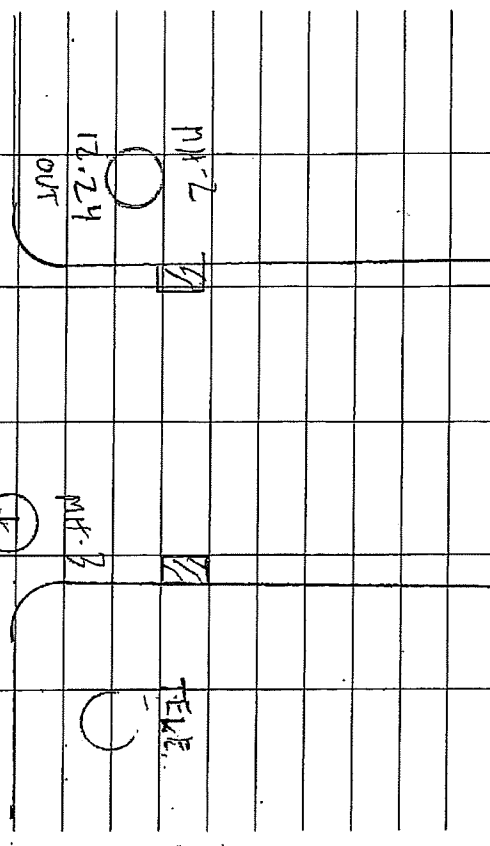
Section C. Agency Review

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 it deems necessary, as described in the form. Attach additional sheets, if necessary.

KETTERSON HOOTS COMPLEX



2018-2045.02 5th CDD

MARCH 1, 2019 J.W. NY JS

BM + 8.52 MAG. 1011.819'

MH-1 - 7.60

MH-2 - 4.18

MH-3 - 4.64

NOTE: SURVEYED INVERT ELEVATIONS

DIFFER FROM THOSE PROVIDED BY

APPROXIMATELY 5.5' THIS DIFFERENCE

IS BELIEVED TO BE BECAUSE OF

DIFFERENT DATUMS BEING USED.

THE FLOW DEPTH WAS MEASURED

TO BE 10' FROM THE INVERT OF

A 15" PIPE AT 7:00AM ON 3/1/19.

Petersen Sports Complex - Sewer Design Flow Data - Depth vs. Flow

CALCULATED

Depth (ft)	Q (cfs)	Q (GPD)	Area (sqft)	Veloc (ft/s)	Wp (ft)	Yc (ft)	TopWidth (ft)	Energy (ft)
0.25	2.10	1354414.24	0.18	11.90	1.16	0.58	1.00	2.45
0.50	7.99	5163058.10	0.46	17.41	1.71	1.12	1.22	5.21
0.75	15.97	10319654.30	0.77	20.71	2.22	1.24	1.22	7.42
1.00	23.16	14965760.40	1.05	22.00	2.77	1.25	1.00	8.52
1.25	23.68	15301779.20	1.23	19.30	3.93	1.25	0.00	7.04
Design Peak Flow								

$$\text{DESIGN AVG FLOW} = \frac{\text{DESIGN PEAK FLOW}}{3.5 \text{ (COMBINED SEWER)}} = \frac{23.68 \text{ cfs}}{3.5} = \underline{\underline{6.77 \text{ cfs}}}$$

a. Design and/or Permitted Capacity (GPD)

The Designed flow data was calculated with Manning's Equation as shown the table above utilizing the pipe slope, material, size and inverts. The inverts were found from site survey data. The minimum slope for the 15 inch pipe was calculated at 11.46%.

b. Present Flows (gpd)

The present flows were calculated by using a measured flow depth that was obtained by surveying the most restrictive point on 3/1/19 at 7:00 AM. The Peak Flow Depth was measured to be 10 inches. To determine the Average flow the peak was divided by 3.5 for the combination system.

b. Projected Flows in 5 years (gpd)

The projected flows were calculated using the Peak Present Flow and increased by 5% per PWSA. This was then added to the proposed increase of flow for the proposed addition to the Carnegie Science Center. Which is calculated in narrative section of the sewer module (Tab 6)

Projected Peak = (Present Peak + Proposed Peak) 1.05

Petersen Sports Complex Support Building

The information represented as the Dry Weather Flow Calculation has been performed based on available information including field survey, record information and standard engineering practices and judgement.

Channel Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc.

Monday, Mar 4 2019

Petersen Sports Complex Sewer Flow Calculations - Peak Present Flow

Circular

Diameter (ft) = 1.25

Invert Elev (ft) = 992.85

Slope (%) = 11.46

N-Value = 0.012

Calculations

Compute by: Known Depth

Known Depth (ft) = 0.83

Highlighted

Depth (ft) = 0.83

Q (cfs) = 18.46

Area (sqft) = 0.87

Velocity (ft/s) = 21.34

Wetted Perim (ft) = 2.38

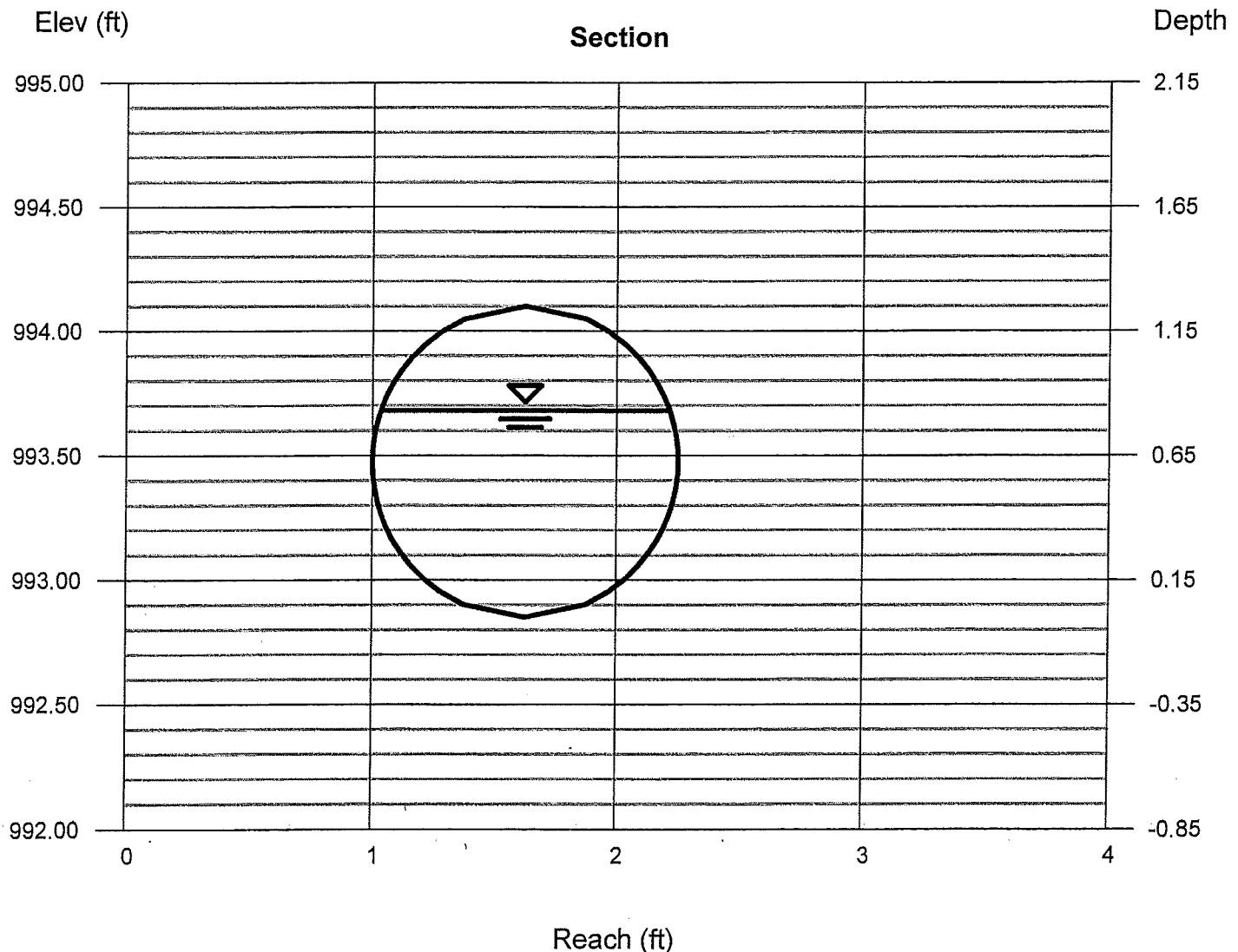
Crit Depth, Yc (ft) = 1.25

Top Width (ft) = 1.18

EGL (ft) = 7.91

PEAK
PRESENT
FLOW

Q = 11,931,010 GPD





H.F. LENZ
COMPANY

Subject PETERSEN SPORTS COMPLEX - SEWER CALCULATIONS

HFL File No. 2018 - 2045.02 Scale N/A Sheet 1 of 1

Calculated by JJS Date 3/4/19 Checked by _____ Date _____

PRESENT FLOWS

$$\begin{aligned}\text{PRESENT AVG. FLOW} &= \frac{\text{PRESENT PEAK FLOW}}{3.5 \text{ (COMBINED SEWER)}} = \frac{18.46 \text{ CFS}}{3.5} = \underline{\underline{5.27 \text{ CFS}}} \\ &= \underline{\underline{3406090 \text{ GPD}}}\end{aligned}$$

PROJECTED FLOWS

$$\begin{aligned}\text{PROJECTED PEAK FLOW} &= (\text{PRESENT PEAK FLOW} + \text{PROJECT FLOW}) \times 1.05 \\ &= (11,931,010 \text{ GPD} + 1,725 \text{ GPD}) \times 1.05 = \underline{\underline{12,529,371.8 \text{ GPD}}} \\ &= \underline{\underline{19.39 \text{ CFS}}}\end{aligned}$$

$$\begin{aligned}\text{PROJECTED AVG. FLOW} &= \frac{\text{PROJECTED PEAK FLOW}}{3.5 \text{ (COMBINED SEWER)}} = \frac{19.39 \text{ CFS}}{3.5} = \underline{\underline{5.54 \text{ CFS}}} \\ &= \underline{\underline{3,580,596 \text{ GPD}}}\end{aligned}$$

1. PROJECT INFORMATION

Project Name: **Petersen Sports Complex Support Building Renovation**

Date of Review: **2/8/2019 10:25:28 AM**

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

Project Area: **0.86 acres**

County(s): **Allegheny**

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

ZIP Code: **15213**

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

Watersheds HUC 8: **Lower Monongahela**

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

Decimal Degrees: **40.443932, -79.967239**

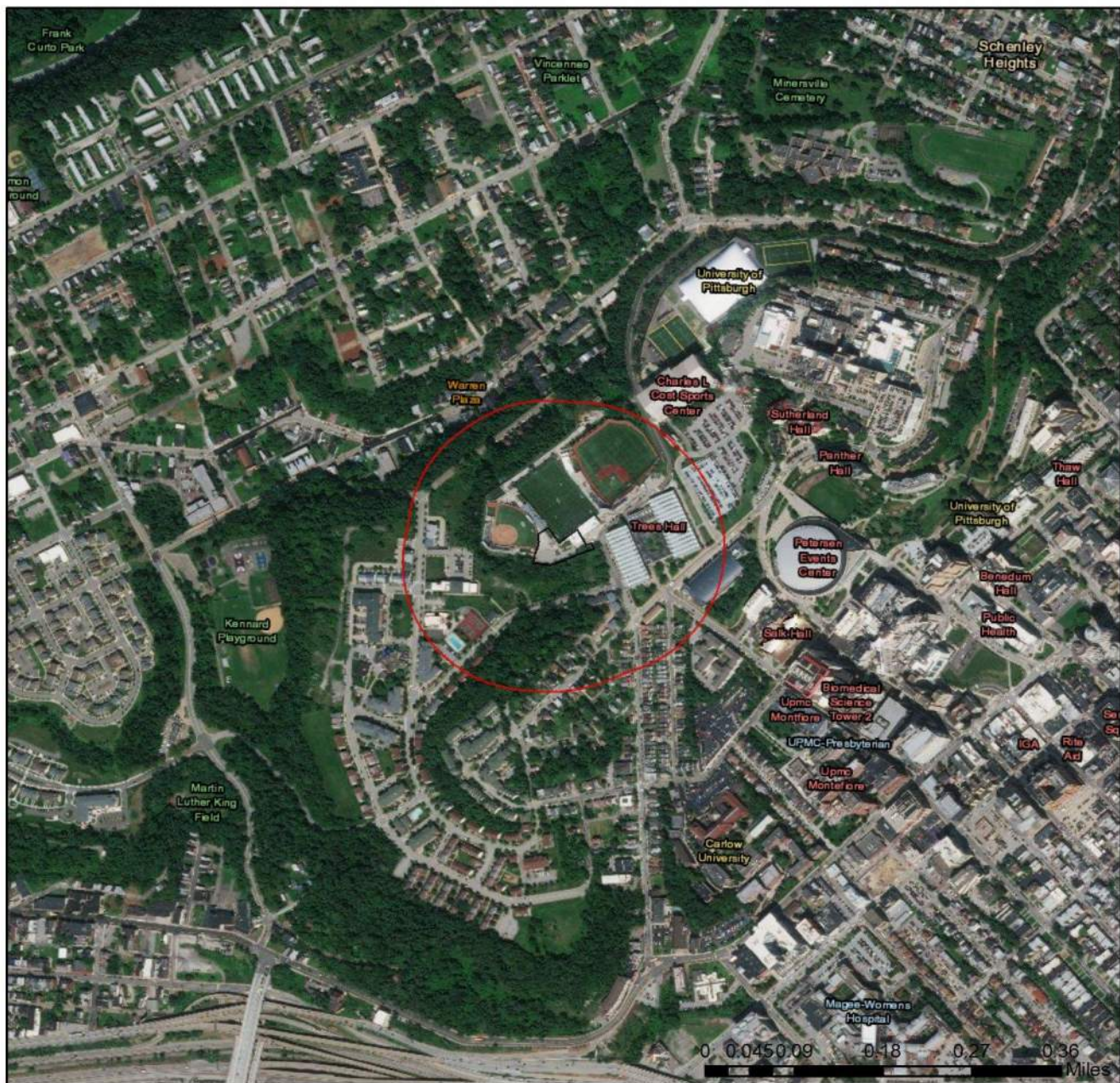
Degrees Minutes Seconds: **40° 26' 38.1566" N, 79° 58' 2.599" W**

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.

Petersen Sports Complex Support Building Renovation

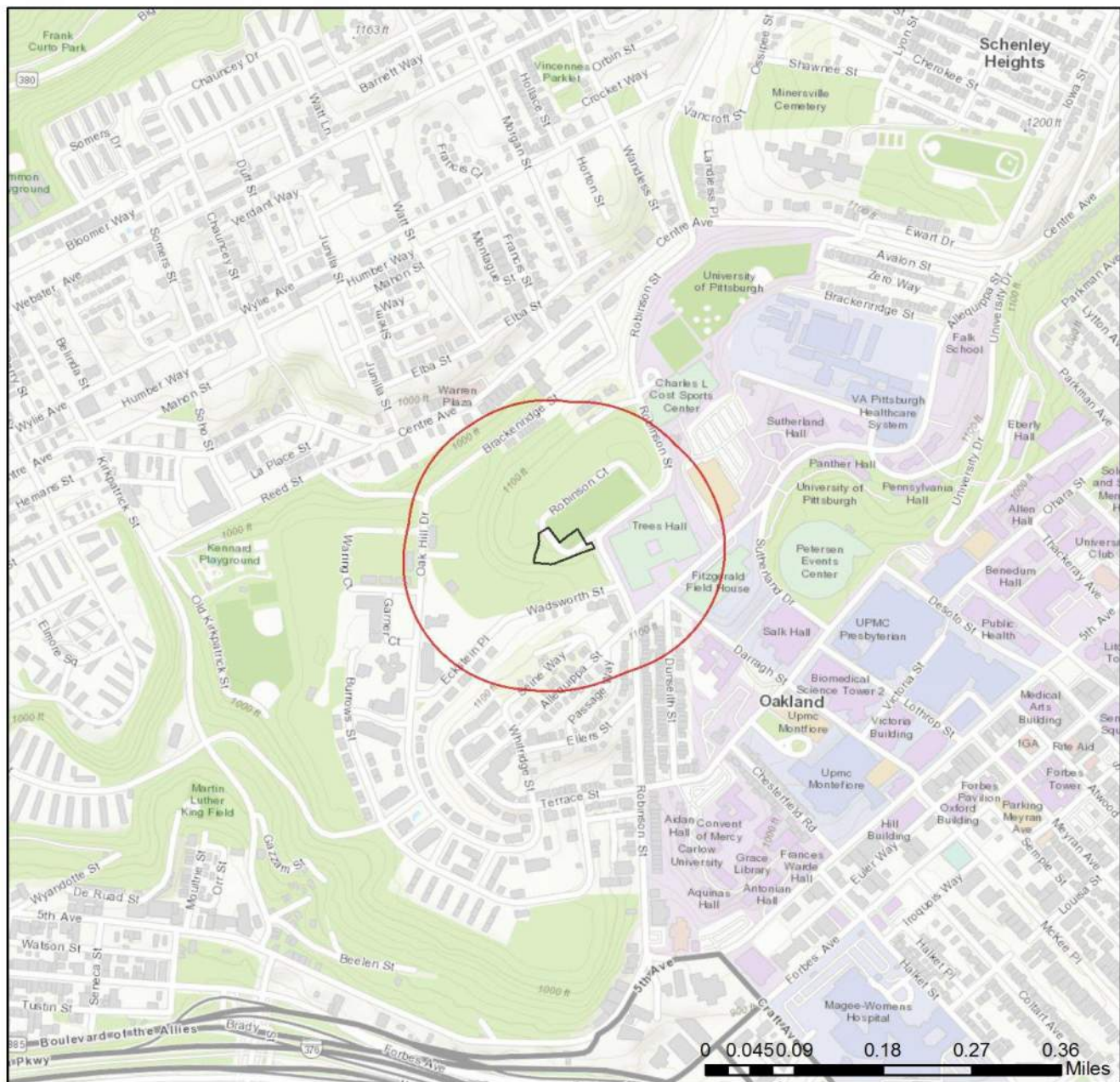


- ☐ Project Boundary
- ☐ Buffered Project Boundary



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

Petersen Sports Complex Support Building Renovation



- ☐ Project Boundary
- ☐ Buffered Project Boundary

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



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: JOSHUA J. SHEARMAN
Company/Business Name: H.F. LENZ COMPANY
Address: 1407 SCALP AVENUE
City, State, Zip: JOHNSTOWN, PA 15904
Phone: (814) 269-9300 x 288 Fax: (814) 269-9301
Email: jshearman@hflenzen.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.

Joshua J. Shearman
applicant/project proponent signature

2/8/2019
date

Checklist



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

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

Completeness Checklist

The individual completing the component should use the checklist below to assure that all items are included in the module package. The municipality should confirm that the required items have been included within 10 days of receipt, and if complete, sign and date the checklist.

Sewage Collection and Treatment Facilities

- ☒ Name and Address of land development project.
- ☒ U.S.G.S. 7.5 minute topographic map with development area plotted.
- ☒ Project Narrative.
- ☐ Letter from water company (if applicable).
- ☒ Alternative Analysis Narrative.
- ☒ Details of chosen financial assurance method.
- ☐ Proof of Public Notification (if applicable).
- ☒ Name of existing collection and conveyance facilities.
- ☒ Name and NPDES number of existing treatment facility to serve proposed development.
- ☒ Plot plan of project with required information.
- ☒ Total sewage flows to facilities table.
- ☒ Signature of existing collection and/or conveyance Chapter 94 report preparer.
- ☒ Signature of existing treatment facility Chapter 94 report preparer.
- ☐ Letter granting allocation to project (if applicable).
- ☒ Signature acknowledging False Swearing Statement.
- ☒ Completed Component 4 (Planning Agency Review) for each existing planning agency and health department.
- ☒ Information on selected treatment and disposal option.
- ☐ Permeability information (if applicable).
- ☐ Preliminary hydrogeology (if applicable).
- ☐ Detailed hydrogeology (if applicable).

Municipal Action

- ☐ Component 3 (Sewage Collection and Treatment Facilities).
- ☐ Component 4 (Planning Agency Comments and Responses).
- ☐ Proof of Public Notification.
- ☐ Long-term operation and maintenance option selection.
- ☐ Comments, and responses to comments generated by public notification.
- ☐ Transmittal Letter

Signature of Municipal Official

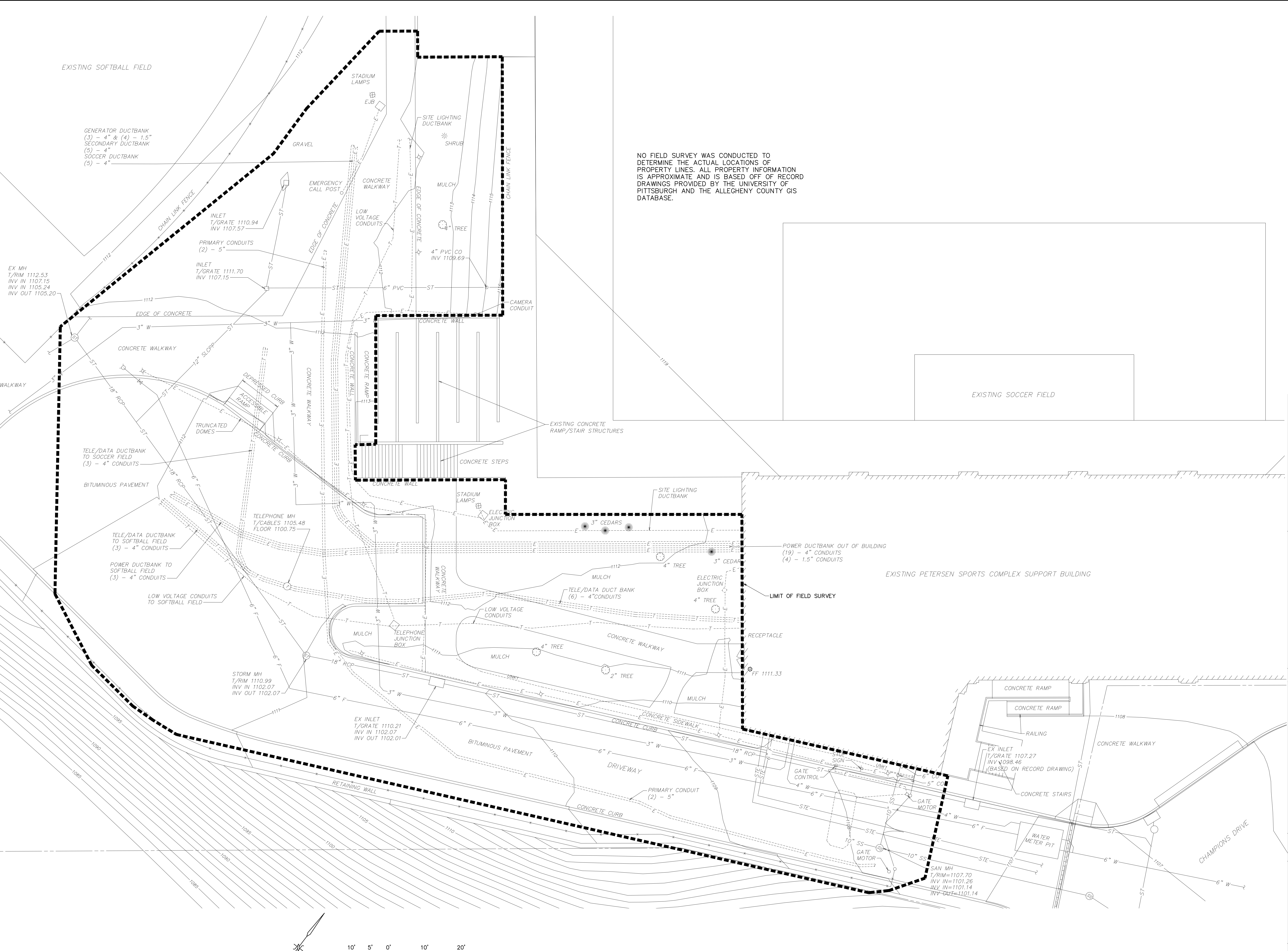
Date submittal determined complete.

This is a detailed topographic map of Pittsburgh, Pennsylvania. The map shows the Allegheny River flowing through the northern part of the city and the Monongahela River flowing through the southern part. Key neighborhoods labeled include Herr's Island, Bloomfield, Schenley Heights, Oakland, and Soho. The map features numerous streets, including major thoroughfares like the Allegheny River, Monongahela River, and various bridges such as the Thirty-First Street Bridge and the Herron Bridge. Contour lines indicate elevation, with labels like 1000, 1200, and 1400. A red circle in the Oakland neighborhood is labeled 'SITE LOCATION'. A line connects this location to a larger map of Pennsylvania, which is partially visible on the right side of the page. The map also shows the University of Pittsburgh-Pittsburgh Campus and the Carnegie Mellon University.

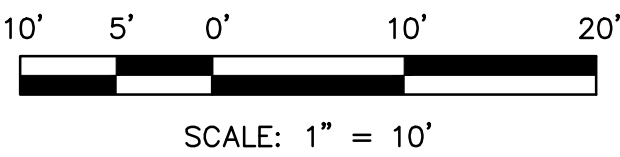
SCALE: 1" = 2000'

LOCATION MAP

REVISIONS		
NO.	DATE	DESCRIPTION



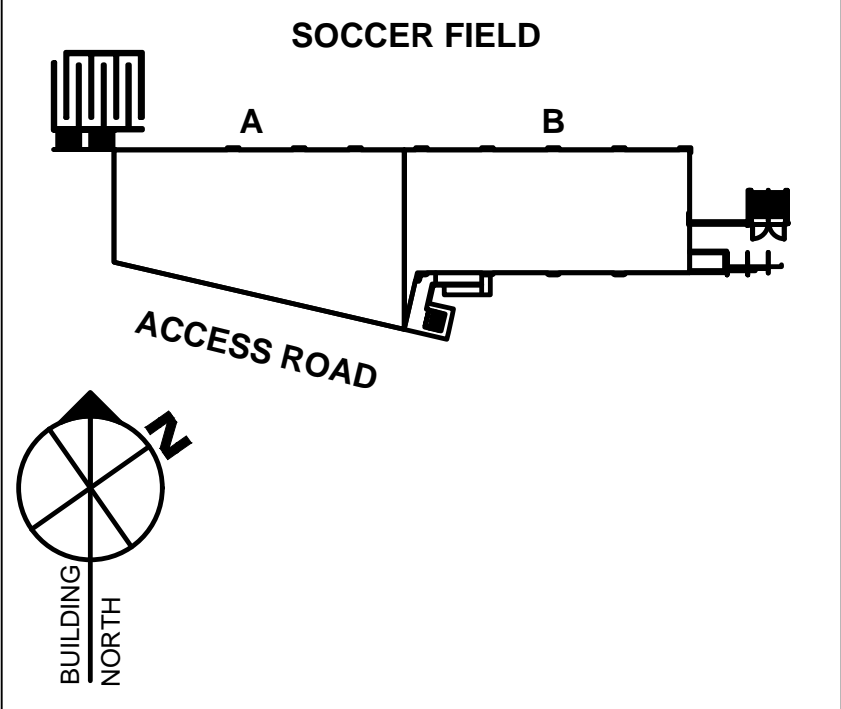
- NOTE:
1. REFER TO SHEET C100 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
 2. EXISTING CONDITIONS PLAN BASED ON TOPOGRAPHIC FIELD SURVEY WITHIN LIMIT DEPICTED SUPPLEMENTED WITH RECORD DRAWING INFORMATION PROVIDED BY OWNER.



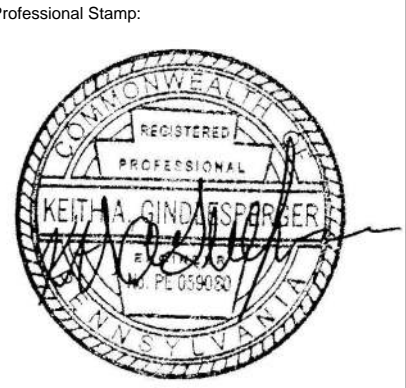
Foster Plaza 9
Suite 200
750 Holiday Drive
Pittsburgh, PA 15220

H.F. LENZ COMPANY
ENGINEERING
1051 Brinton Road - Suite 100
Pittsburgh, PA 15221
Phone: 412-371-9073
cadd@hflenz.com
www.hflenz.com
HFL PROJECT #2018-2045-01

KEYPLAN

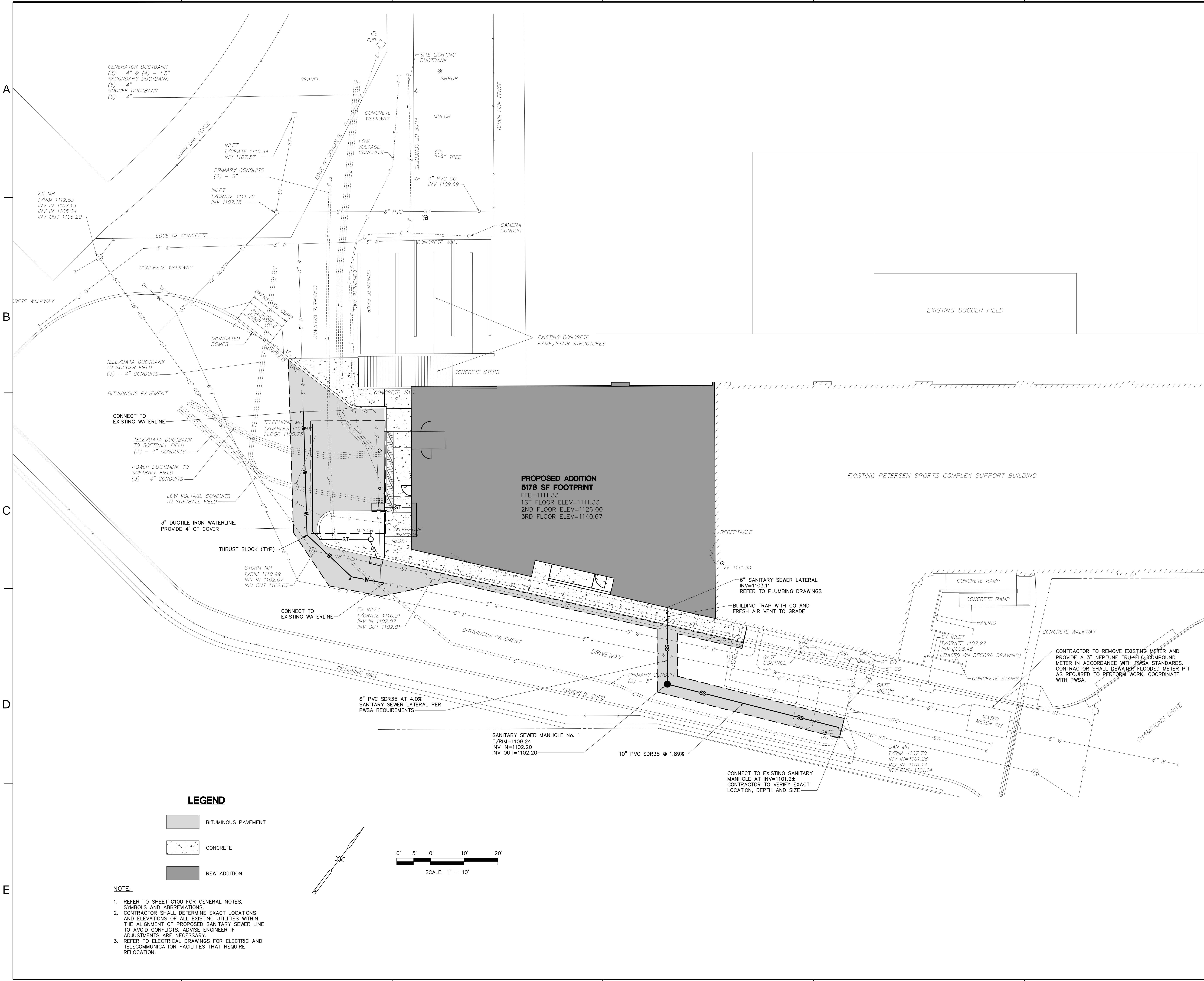


University of Pittsburgh
Facilities Management



Project Name: Petersen Sports Complex Support Building Addition 385 Champions Drive Pittsburgh, PA 15213	Job No.: X6543 Issue Date: 05.29.19
Drawing Description: EXISTING CONDITIONS PLAN	
CAD File Name: C200.dwg	Drawn By: EPL
Drawing Number: 10994-C200	Set Order: of

I:\VIT\Projects\2018\182000\182045-02\CADD\Civil\dwg\C500.dwg 5/23/2019 7:50 AM



LEGEND

- BITUMINOUS PAVEMENT
- CONCRETE
- NEW ADDITION

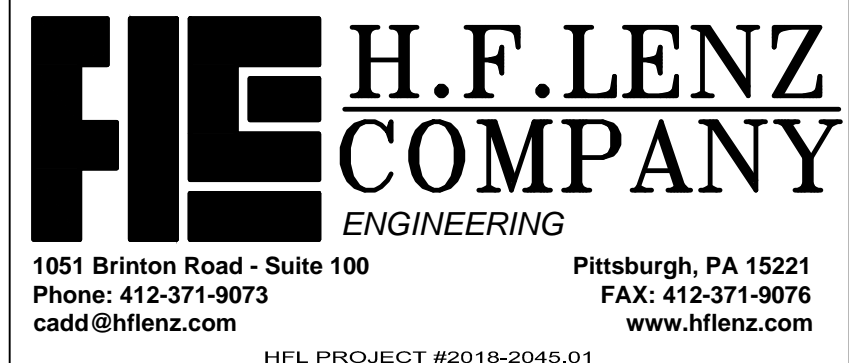
NOTE:

- REFER TO SHEET C100 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- CONTRACTOR SHALL DETERMINE EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES WITHIN THE ALIGNMENT OF PROPOSED SANITARY SEWER LINE TO AVOID CONFLICTS. ADVISE ENGINEER IF ADJUSTMENTS ARE NECESSARY.
- REFER TO ELECTRICAL DRAWINGS FOR ELECTRIC AND TELECOMMUNICATION FACILITIES THAT REQUIRE RELOCATION.

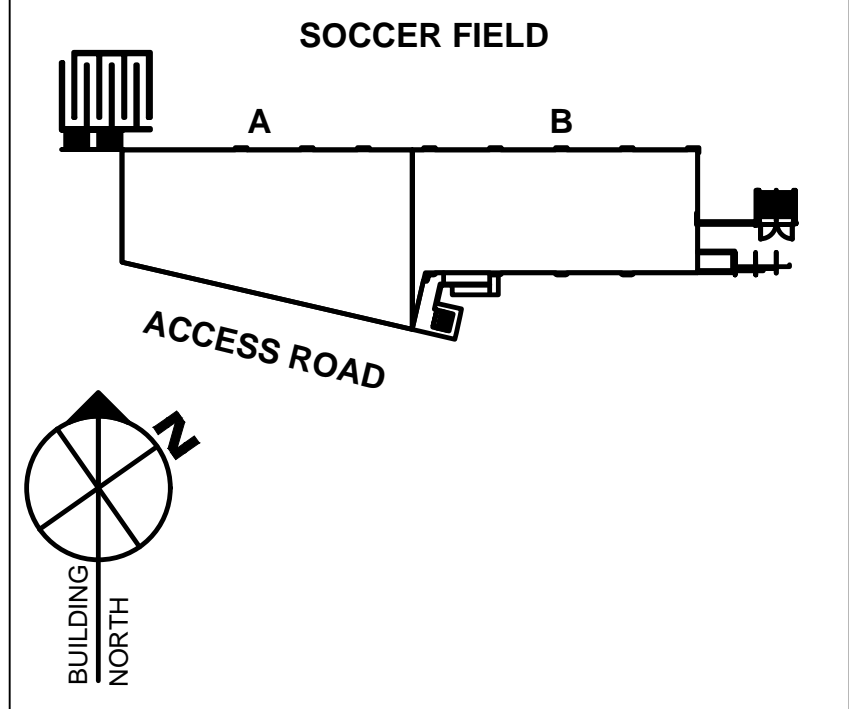
REVISIONS		
NO.	DATE	DESCRIPTION



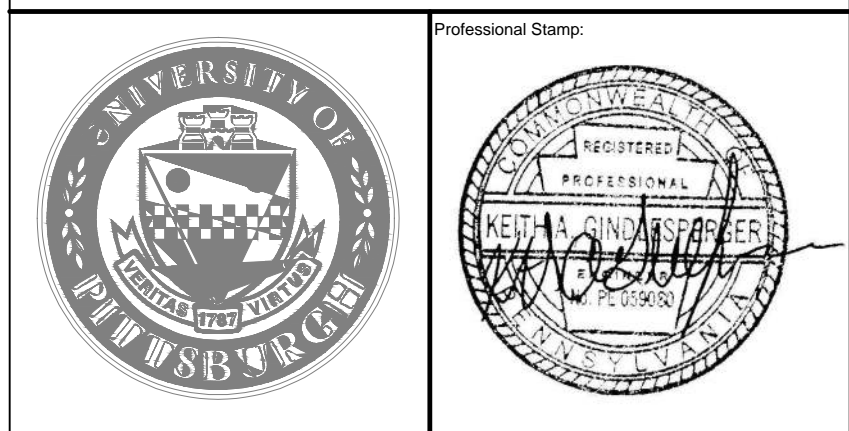
Foster Plaza 9
Suite 200
750 Holiday Drive
Pittsburgh, PA 15220



KEYPLAN



University of Pittsburgh
Facilities Management



Project Name: Petersen Sports Complex Support Building Addition 385 Champions Drive Pittsburgh, PA 15213	Job No.: X6543 Issue Date: 05.29.19
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Drawing Description:
UTILITY PLAN

CAD File Name: C500.dwg	Drawn By: EPL
Drawing Number: 10994-C500	Set Order: of