
SEWAGE FACILITIES PLANNING MODULE
DEP Code No. TBD

for

NORTH SHORE ENTERTAINMENT PLAZA
City of Pittsburgh,
Allegheny County, Pennsylvania

Prepared For:

North Shore Hospitality
North Shore Plaza
North Shore Drive
Pittsburgh, PA 15212

Prepared By:

Langan Engineering and Environmental Services, Inc.
2400 Ansys Drive, Suite 403
Canonsburg, Pennsylvania 15317

LANGAN

November 2023
Last Revised January 2024
250101503

APPENDIX A

Transmittal Letter and Correspondence



**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)
 PA DEP 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 _____ (Name)
Langan Engineering and Environmental Services, Inc. for North Shore Entertainment Plaza
 (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.

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

 Municipal Secretary (print)

 Signature

 Date

CORRESPONDENCE

Most Limited Capacity Sewer (MLCS) Spreadsheet

PROJECT NAME: 20b Mazerowski Way
 PWSA PROJECT NUMBER: DEP-15-0923
 PWSA REVIEWER: Midori Bridges
 DATE: September 27, 2023

LEGEND:

Output Data
Input Data
Questionable Data
Hydraulically Limited Sewer

MLCS

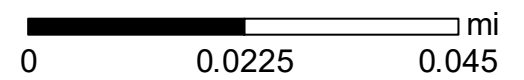
Upstream MH	Downstream MH	Upstream Invert	Downstream Invert	Length, ft	Diam., in.	Material	n	Area, sf	Wetted P, ft	Slope	Flow, gpd
MH008L070	MH008K057	719.55	715.05	403.26	12	PVC	0.01	0.79	3.142	1.12%	3,170,750
MH008K057	MH008K058	715.05	705.88	54.05	12	PVC	0.01	0.79	3.142	16.97%	12,363,321
MH008K058	VD008LA46	705.88	700.00	282.37	12	PVC	0.01	0.79	3.142	2.08%	4,331,394

20b Mazeroski Way SFPM



Legend

WATER	Pressure Monitoring Station	Private Inlet
Meter	Water Manhole	Outfall
Curb Box	Rising Main	End Cap
Water System Pump	Supply Main	Sewer Pump Station
Hydrant	Transmission Main	Combined Sewer
System Valve	Distribution Main	Sanitary Sewer
Dividing Pressure Valve	Hydrant Branch	Storm Sewer
Coupling	Private Main	Regulated Combined Sewer
Tee	Water Service Line	Overflow Sewer
Cross	SEWER	Interceptor
Reducer	Manhole	Sewer Force Main
End Cap	Junction	Private Sewer
Wash Out	Inlet	Undefined Sewer
		Green Infrastructure Underground Facilities



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

Date: 9/27/2023

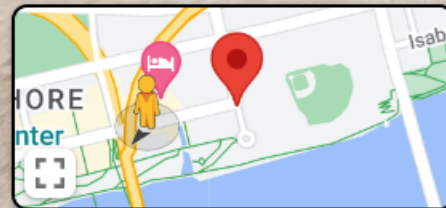
N Shore Dr & Mazeroski Way, Pittsbur

271 N Shore Dr
Pittsburgh, Pennsylvania
Google Street View
Jun 2022 See more dates

271
SAP
cadence

CBRE
FOR LEASE
+1 412 471 1000

Peak Flow Depth
Measurement
Location:
MH008K057



 Resolved

Adalee Jacobs 7 days ago



Good afternoon, Midori,

For the sewer flow monitoring, are we able to utilize the sewer flow monitoring data from the North Shore Mixed Use Building project?

This project, the North Shore Entertainment Plaza, proposes to tie into the infrastructure to be built with the North Shore Mixed Use Building. The North Shore Mixed Use Building project, PWSA Project No.: 20013.18, had required sewer flow monitoring of MH008K058 – directly downstream of MH008K057, the manhole requested to take flow depth measurements for the North Shore Entertainment Plaza project. The sewer flow monitoring data is from 1/21/2022 to 2/19/2022 and the North Shore Mixed Use Building has not yet been constructed. Sewage Facilities Planning Module approval had been granted by PWSA for the North Shore Mixed Use Building project on April 11, 2022 and received approval from PA DEP on August 10, 2022.

Please, let me know if you have any questions in regards to this request.

Thank you,
Addie

Midori Bridges 7 days ago

Hi Addie, since this project has a net flow decrease of less than 4,000 gpd we are only requiring peak flow depth measurements which is a 2 hour process rather than the 30 day flow monitoring. My only concern is that MH008K058 has 3 12" sewer segments flowing into it from some pretty commercial areas. This will cause the existing flow to be much greater than what is shown in MH008K057. Nevertheless, I can run it past Rob.

Midori Bridges 7 days ago

*increase

Midori Bridges 7 days ago

Addie, just talked to Rob- we will accept the flow monitoring! Please submit the flow monitoring data along with the SFPM submission. Thanks.

January 11, 2022

Adalee Jacobs
Langan
2400 Ansys Drive
Canonsburg, PA 15317

Subject: Water and Sewer (W&S) Use Approval
Project Name: North Shore Mixed Use Building (Project)
PWSA Project No.: 20013.18

Dear Adalee,

The W&S Use Application for the Project has been approved, as summarized below:

Type of Flow	Sanitary, gpd	Water, gpd
<i>Project Flow</i>	30,810	30,810
<i>Existing Flow</i>	0	0
<i>Net Flow</i>	30,810	30,810

The PWSA shall request the Department of Environmental Protection (DEP) to issue a Final Determination on the Need for Sewage Planning. If sewage planning is required, we have enclosed for your use the location of the most limited capacity sewer (MLCS). The hydraulic capacity of the MLCS shall be determined via the following method:

- Peak Flow Depth Measurements (Sanitary Net Flow \leq 4,000 gpd)
- Flow Monitoring (Sanitary Net Flow $>$ 4,000 gpd)

Our review was based on information provided by others under the assumption that this information was accurate and complete. Should you have any questions, please do not hesitate to contact me directly at 412-255-8800 x5523 or SConnell@pgh2o.com.

Sincerely,



Shannon Connell
Engineer III

Enclosure(s)

cc: Barry King, PE, PMP – PWSA (via email)
Kate Mechler, PE – PWSA (via email)
Robert Herring, PE, PMP – PWSA (via email)
eBuilder – Filing System (via email)



Water and Sewer (W/S) Use Application Form

Instructions The complete W/S Use Application shall be uploaded via e-builder. To obtain an e-builder project folder, please make a request on our website at www.pgh2o.com/permits. In addition, please refer to the Developer’s Manual for detailed information on application requirements.

- Requirements**
- Application Fee Application Form Narrative
- Flow Calculations Site Plan Floor Plan

Project Info

Project Name: _____

Address: _____

Is the Project located on a lot created prior to May 15, 1972? YES NO

Owner/Developer

Name: _____

Address: _____

Email: _____

Phone Number: _____

Consultant

Firm Name: _____

Address: _____

Contact Name: _____

Email: _____

Phone Number: _____

Flow Data

Type of Flow	Sanitary, gpd	Water, gpd	Storm, cfs
Project Flow			
Existing Flow			
Net Flow			Not Required

Signature

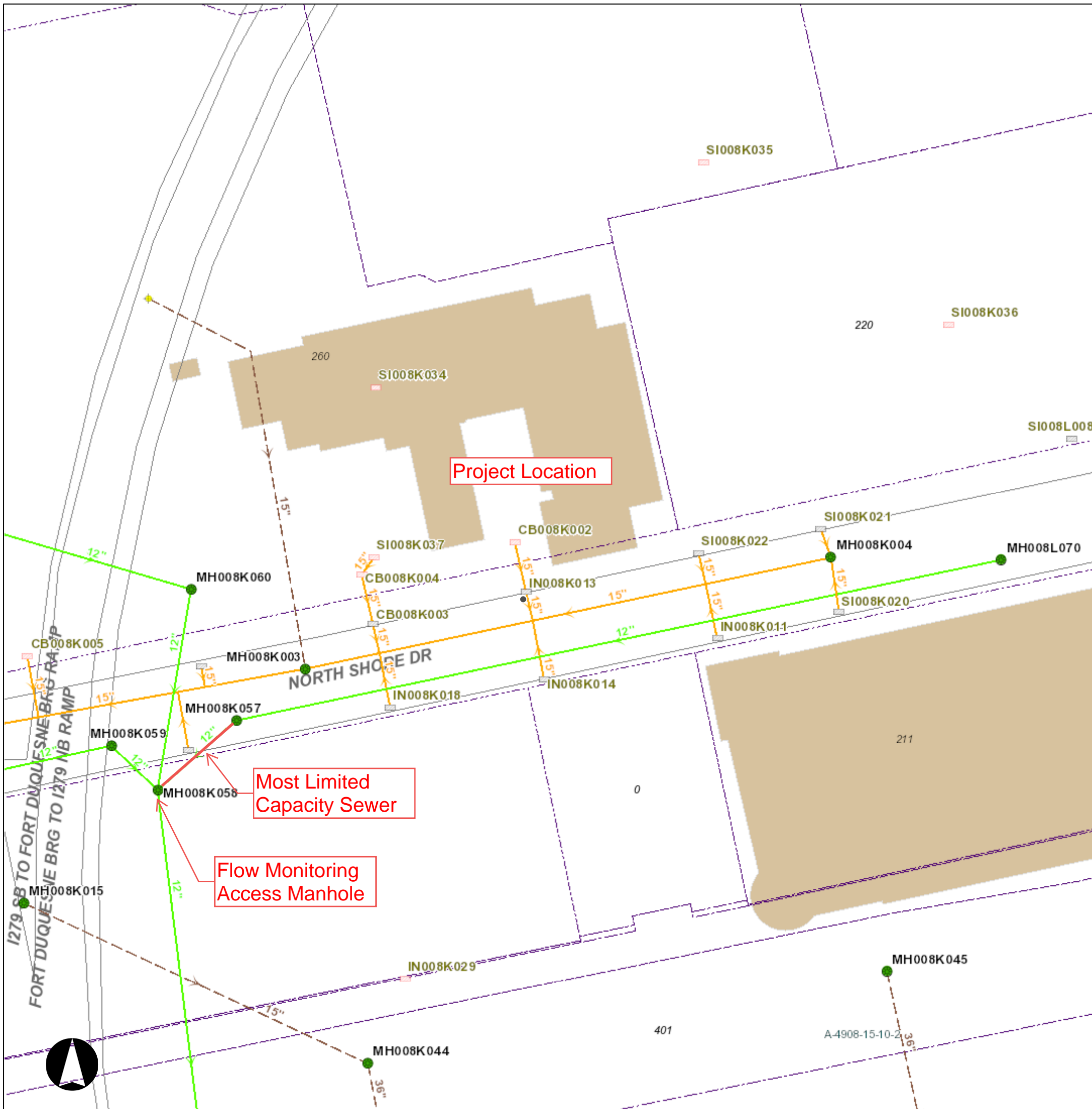
By signing below, I hereby certify, to the best of my knowledge, that the information provided within the Water and Sewer Use Application is true, complete and accurate.

Name, printed: _____

Signature: Scott S

Date: _____

North Shore Mixed Use Building MLCS



Legend

WATER

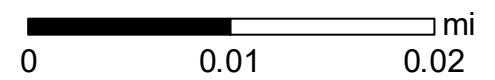
- Meter
- Curb Box
- Water System Pump
- Hydrant
- System Valve
- Dividing Pressure Valve
- Coupling
- Tee
- Cross
- Reducer
- End Cap
- Wash Out

- Pressure Monitoring Station
- Water Manhole
- Rising Main
- Supply Main
- Transmission Main
- Distribution Main
- Hydrant Branch
- Private Main
- Water Service Line

SEWER

- Manhole
- Junction
- Inlet

- Private Inlet
- Outfall
- End Cap
- Sewer Pump Station
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- Regulated Combined Sewer
- Overflow Sewer
- Interceptor
- Sewer Force Main
- Private Sewer
- Undefined Sewer
- Green Infrastructure Underground Facilities



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

Date: 1/11/2022

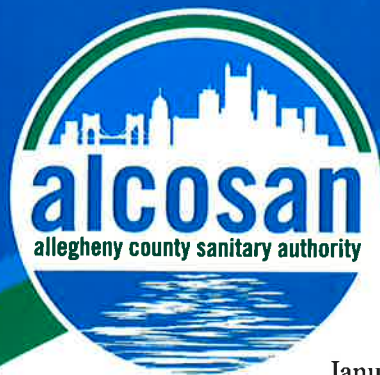
Most Limited Capacity Sewer (MLCS) Spreadsheet

PROJECT NAME:	North Shore Mixed Use Building
PWSA PROJECT NUMBER:	20013.18
PWSA REVIEWER:	Shannon Connell
DATE:	January 11, 2022

LEGEND:

Output Data
Input Data
Questionable Data
Hydraulically Limited Sewer

Upstream MH	Downstream MH	Upstream Invert	Downstream Invert	Length, ft	Diam., in.	Material	n	Area, sf	Wetted P, ft	Slope	Flow, gpd
MH008L070	MH008K057	719.55	710.05	403.26	12	PVC	0.01	0.79	3.142	2.36%	4,606,993
MH008K057	MH008K058	710.05	705.88	54.05	12	PVC	0.01	0.79	3.142	7.72%	8,337,167
MH008K058	VD008LA46	705.88	703.54	282.36	12	PVC	0.01	0.79	3.142	0.83%	2,732,465



January 11, 2024

Members of the Board

Sylvia C. Wilson
Chair Person

Shannah Tharp-Gilliam, Ph.D.

Harry Readshaw

Emily Kinkead

Paul Klein

Theresa Kail-Smith

Darrin Kelly

Arletta Scott Williams
Executive Director

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

Michelle M. Buys, P.E.
*Director
Environmental Compliance*

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

Karen Fantoni, CPA, CGMA
*Director
Finance*

Michael Lichte, P.E.
*Director
Regional Conveyance*

Jeanne K. Clark
*Director
Governmental Affairs*

Joseph Vallarian
*Director
Communications*

Julie Motley-Williams
*Director
Administration*

Phil Cole
*Chief Information Officer
Information Technology*

Rachel McCune
Langan Engineering & Environmental Services Inc
2400 Ansys Drive, Suite 403
Canonsburg, PA 15317

**Re: North Shore Entertainment Plaza
City of Pittsburgh– Allegheny County
PA DEP Sewage Facilities Planning Module
ALCOSAN Regulator Structure A-46 -00**

Dear Rachel McCune,

We have reviewed the Component 3 Planning Module for the referenced project to be located in the City of Pittsburgh. The project will generate a peak flow of 3639 gpd in the ALCOSAN Monongahela River Interceptor and the Woods Run Treatment Plant.

The capacity at the ALCOSAN A-46-00 structure is approximately 5.44 MGD. The previously monitored peak dry weather flows are 0.430 MGD. Dry weather capacity exists for this connection. However, the ALCOSAN Allegheny River Interceptor and the Woods Run Treatment Plant do not have the capacity for the flows generated by tributary communities during wet weather periods. This limitation will be addressed as ALCOSAN implements its Clean Water Plan.

ALCOSAN requests that this letter be made part of the planning module submission. The signed Component 3 Planning Module is attached. If you have any questions regarding this matter, please contact me at 412-734-6266.

Sincerely,

ALLEGHENY COUNTY SANITARY AUTHORITY

Zach Hughes

Attachment

cc: C. Dean (w/o attachment)
L. Sanford (w/o attachment)
M. Lichte (w/o attachment)

Zach Rinker/PWSA (w/o attachment)
Mahuba Iasmin/PADEP (w/o attachment)
Issa Tijani /ACHD (w/o attachment)

COUNTY OF



ALLEGHENY

SARA INNAMORATO
COUNTY EXECUTIVE

January 31, 2024

Scott Rowland, Principal
Langan Engineering & Environmental Services, Inc
2400 Ansys Drive,
Canonsburg, PA 15317

**RE: SEWAGE FACILITIES PLANNING MODULE; ALLEGHENY COUNTY
North Shore Entertainment Plaza – City of Pittsburgh**

Dear Mr. Rowland:

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 January 23, 2024. The project proposes the following:

Project Description:	The construction involves development of an entertainment plaza that will consist of a food stand, feature wall and outdoor seating area.
Sewage Flow:	3639 GPD
Conveyance:	Sewage from proposed development will be conveyed through 12" PVC sanitary line on North Shore Drive. Subsequently, it will be linked to the Allegheny River Interceptor and ultimately transported to ALCOSAN at Wood Run Road for treatment.
Sewer's Owner:	PWSA (collection), ALCOSAN (interceptor)
Sewage Treatment Plant:	ALCOSAN

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



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.ALLEGHENYCOUNTY.US/HEALTHDEPARTMENT



In addition, it should be noted that the approval of this sewage facilities planning module does not include approval of pipe size and/or type. Approval for pipe size and/or type must be obtained by filing a specific plumbing plan with the ACHD's Plumbing Section. If you should have any questions relative to ACHD's plumbing requirements, please contact Drew Grese, Plumbing Program Manager at 412-578-8055.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Issa Tijani', with a stylized, cursive style.

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

Enclosure

cc: Regis Ryan, PA Department of Environmental Protection w/attachment
Drew Grese, ACHD w/attachment

APPENDIX B

Resolution for Plan Revision for New Land Development

Fiscal Impact Statement

Updated 1/29/2020 to satisfy City Code §219.07

Department	Law
Preparer	Cameron Crowe
Contact	Rachel McCune, P.E.
Type of Legislation	Other

Description of Legislation

The property owner, North Shore Hospitality, has proposed the development of North Shore Entertainment Plaza located at 220 North Shore Drive, Pittsburgh, PA 15212, at block and lots 8-K-36, and described in the attached Sewage Facilities Planning Module (the "Planning Module") and proposes that the project be served by existing sewer tap-ins to the City of Pittsburgh sewage systems; and

The City of Pittsburgh must adopt, and North Shore Hospitality must submit, this Planning Module for land development to the Department of Environmental Protection for its approval as a Plan Addition to the City of Pittsburgh's Official Sewage Facilities Plan.

Total Cost	\$ 0			
Frequency of Expenditure	<input type="checkbox"/> One-Time		<input type="checkbox"/> Multi-Year	
Funding Source	<input type="checkbox"/> Operating	<input type="checkbox"/> Capital	<input type="checkbox"/> Grant	<input type="checkbox"/> Trust Fund
Is this item budgeted?	<input type="checkbox"/> Yes		<input type="checkbox"/> No	

JDE Account Information

N/A

Additional Operational Costs

N/A

Impact on City Revenue

N/A

If the resolution authorizes a professional services contract, complete this page:

Method of Procurement <i>Select one.</i>	<input type="checkbox"/> RFP	<input type="checkbox"/> Signed Waiver from OMB	<input type="checkbox"/> Amendment to Existing Contract <i>Do not fill out the rest of the form.</i>
--	------------------------------	--	---

Name of Vendor and Award Justification

List the name of the awarded vendor and its qualifications.

Other Respondents

List the other respondents. If there were none, clearly state that.

Selection Criteria

Describe the selection or scoring criteria.

Selection Committee Representation

List the department(s) or bureau(s) represented on the committee. Do not list individual names.

Waiver Justification

If a waiver was granted, explain the justification.

EORC Synopsis

Insert synopsis that was presented.

Date Presented at EORC: Insert date.	<input type="checkbox"/> Approved	<input type="checkbox"/> Not Approved
---	-----------------------------------	---------------------------------------

*Per §219.07 of the City Code, you **must** include an electronic copy of the solicitation or your signed waiver with your submission to the Office of Management and Budget.*

Attachments

- *Please attach any additional documents and/or exhibits.*

City of Pittsburgh
Sewer Facilities Planning Module Questionnaire

PROJECT NAME: North Shore Entertainment Plaza

1) What was the previous permitted use for this property?

Parking lot

2) What is the proposed use for the property?

Entertainment plaza with restaurant

3) How is green stormwater mitigation being integrated into the proposed project?

The entertainment plaza includes landscaped areas which will assist in mitigating stormwater runoff from the site.

4) Will the development result in a net positive or net negative change in stormwater flow?

The development will result in a net negative change in stormwater flow.

Resolution adopting Plan Revision to the City of Pittsburgh's Official Sewage Facilities Plan for 220 North Shore Drive, Pittsburgh, PA 15212, at no cost to the City.

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

WHEREAS, North Shore Hospitality has proposed development of North Shore Entertainment Plaza located at 220 North Shore Drive, Pittsburgh, PA 15212, Allegheny County, at block and lots 8-K-36, in the City of Pittsburgh and described in the attached Sewage Facilities Planning Module (the "Planning Module") for land development and proposes that the project be served by one existing sewer tap-ins to the City of Pittsburgh sewage systems; and

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

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

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

SECTION 1. The City of Pittsburgh hereby adopts as a Plan Revision to the City of Pittsburgh's Official Sewage Facilities Plan the above-referenced Planning Module for land development, at no cost to the City, which is attached hereto as **Exhibit A**.

Said Planning Module includes the proposed 220 North Shore Drive, Pittsburgh, PA 15212, Allegheny County, at block and lots 8-K-36, in the 22nd Ward of the City of Pittsburgh.

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

APPENDIX C

Component 3, Narrative Description of Project, Supporting Documentation



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

Code No.

SEWAGE FACILITIES PLANNING MODULE

Component 3. Sewage Collection and Treatment Facilities

(Return completed module package to appropriate municipality)

DEP USE ONLY

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

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

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

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

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

A. PROJECT INFORMATION (See Section A of instructions)

1. Project Name North Shore Entertainment Plaza

2. Brief Project Description The proposed entertainment plaza will consist of a food stand, feature wall, and outdoor seating area.

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

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

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name

North Shore Entertainment Plaza

Site Location Line 1

220 North Shore Drive

Site Location Line 2

Site Location Last Line -- City

Pittsburgh

State

PA

ZIP+4

15212

Latitude

Longitude

Detailed Written Directions to Site Get on PA-28 S from Waterfront Drive, Continue on PA-28 S, Take the I-279 S / I-376 W exit toward Airport, Take exit 1 B from I-279 S, Merge onto Reedsdale St, Left on Tony Doresett Dr, and Left on W General Robinson St, Destination on Right past Champions Garage

Description of Site The proposed entertainment plaza will consist of a food stand, feature wall, and outdoor seating area.

Site Contact (Developer/Owner)

Last Name

Singer

First Name

Drew

MI

Suffix

Phone

412-325-4960

Ext.

Site Contact Title

Site Contact Firm (if none, leave blank)

North Shore Hospitality

FAX

Email

Mailing Address Line 1

115 Federal Street

Mailing Address Line 2

Mailing Address Last Line -- City

Pittsburgh

State

PA

ZIP+4

15212

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

Last Name

Rowland

First Name

Scott

MI

Suffix

D

Title

Principal/Vice President

Consulting Firm Name

Langan Engineering and Environmental Services, Inc.

Mailing Address Line 1

2400 Ansys Drive

Mailing Address Line 2

Suite 403

Address Last Line -- City

Canonsburg

State

PA

ZIP+4

15317

Country

USA

Email

srowland@langan.com

Area Code + Phone

724-514-5100

Ext.

Area Code + FAX

E. AVAILABILITY OF DRINKING WATER SUPPLY

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

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

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

Name of water company: Pittsburgh Water and Sewer Authority (PWSA)

F. PROJECT NARRATIVE (See Section F of instructions)

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

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

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

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

1. COLLECTION SYSTEM

a. Check appropriate box concerning collection system

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

Clean Streams Law Permit Number _____

b. Answer questions below on collection system

Number of EDU's and proposed connections to be served by collection system. EDU's 9

Connections 1

Name of:

existing collection or conveyance system 10-inch sanitary sewer / North Shore Drive 12-in PVC Sanitary Sewer

owner Private - Continental Development, Inc. / Pittsburgh Water and Sewer Authority (PWSA)

existing interceptor Allegheny River Interceptor

owner Allegheny County Sanitary Authority (ALCOSAN)

2. WASTEWATER TREATMENT FACILITY

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

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

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

Name of existing facility Allegheny County Sanitary Authority (ALCOSAN) Wastewater Treatment Facility

NPDES Permit Number for existing facility 25984

Clean Streams Law Permit Number PA 0025984

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

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

As an authorized representative of the permittee, I confirm that the ALCOSAN (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 Zach Hughes

Agent Signature [Signature] Date 1/11/2024

(Also see Section I. 4.)

G. PROPOSED WASTEWATER DISPOSAL FACILITIES (Continued)

3. PLOT PLAN

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

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

4. WETLAND PROTECTION

YES NO

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

5. PRIME AGRICULTURAL LAND PROTECTION

YES NO

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

6. HISTORIC PRESERVATION ACT

YES NO

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

(CRN), a return receipt for its submission to the PHMC and the PHMC review letter.

7. PROTECTION OF RARE, ENDANGERED OR THREATENED SPECIES

Check one:

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

Applicant or Consultant Initials _____.

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

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

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

1. Waters designated for Special Protection

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

2. Pennsylvania Waters Designated As Impaired

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

3. Interstate and International Waters

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

4. Tributaries To The Chesapeake Bay

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

Name of Permittee Agency, Authority, Municipality _____

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

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

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

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

1. Project Flows 3639 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	1058647	3175941	24000	72000	26474	79421
Conveyance	—	9,440,000	143,000	430,000	175,548	465,418
Treatment	250,000,000	250,000,000	194,200,000	250,000,000	248,000,000	295,000,000

3. Collection and Conveyance Facilities

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

YES NO

- a. 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 PWSA

Name of Responsible Agent Zach Rinker

Agent Signature  Zach Rinker Date Jan 2, 2024

2024.01.02
11:49:41 -05'00'

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

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Zach Hughes

Agent Signature Zach Hughes

Date 1/11/2024

4. Treatment Facility

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

YES NO

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

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

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

- b. Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Zach Hughes

Agent Signature Zach Hughes

Date 1/11/2024

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

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

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

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

L. PERMEABILITY TESTING (See Section L of instructions)

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

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

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

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

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

O. SEWAGE MANAGEMENT (See Section O of instructions)

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

Yes No

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

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

2. Project Flows _____ gpd

Yes No

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

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

(For completion by non-municipal facility agent)

4. Collection and Conveyance Facilities

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

Yes No

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

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

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

- b. Collection System

Name of Responsible Organization _____

Name of Responsible Agent _____

Agent Signature _____

Date _____

- c. Conveyance System

Name of Responsible Organization _____

Name of Responsible Agent _____

Agent Signature _____

Date _____

5. Treatment Facility

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

Yes No

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

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

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

- b. Name of Facility _____
Name of Responsible Agent _____
Agent Signature _____
Date _____

(For completion by the municipality)

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

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

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

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

Yes No

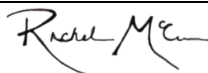
1. Does the project propose the construction of a sewage treatment facility ?
2. Will the project change the flow at an existing sewage treatment facility by more than 50,000 gallons per day?
3. Will the project result in a public expenditure for the sewage facilities portion of the project in excess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

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

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

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

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

<p>Rachel McCune, P.E.</p> <hr/> <p style="text-align: center;">Name (Print)</p> <p>Project Engineer</p> <hr/> <p style="text-align: center;">Title</p> <p>2400 Ansys Drive, Suite 403</p> <p>Canonsburg, PA 15317</p> <hr/> <p style="text-align: center;">Address</p>	 <hr/> <p style="text-align: center;">Signature</p> <p>11/9/2023</p> <hr/> <p style="text-align: center;">Date</p> <p>724-972-3781</p> <hr/> <p style="text-align: center;">Telephone Number</p>
---	--

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 \$450.00 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.

$$\#9 \text{ _____ Lots (or EDUs) X } \$50.00 = \$ \underline{450.00}$$

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:

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

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

The fee is based upon:

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

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

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

NARRATIVE DESCRIPTION OF PROJECT

SECTION F SEWAGE FACILITIES PLANNING MODULE COMPONENT 3

**Re: Project Narrative
North Shore Entertainment Plaza
City of Pittsburgh, Allegheny County, Pennsylvania
Langan Project No.: 250101503**

The project is located in the North Shore neighborhood of the City of Pittsburgh, Allegheny, County, Pennsylvania. The project site is within the Riverfront North Shore (RIV-NS) Zoning District. The site is bound by 8-K-35 to the south, Mazeroski Way to the east, West General Robinson Street to the north, and City of Pittsburgh parcel 8-K-37 to the west (Champions Garage). The site is currently occupied by a surface parking lot. The proposed entertainment plaza will consist of a food stand, feature wall, and outdoor seating area.

The project includes one 8-inch sanitary sewer service lateral to discharge into an existing private 10-inch sewer stub off of the existing Mixed Use Building that was a part of the North Shore Lot 10 project (PWSA DEV-155-0822 and DEP Code No. 02001-21-090). The private infrastructure outfalls into an existing 12-inch PWSA sanitary sewer in North Shore Drive. The anticipated average sewage flow for the proposed development is 7,402 gallons per day (GPD), or 24.7 EDUs.

The proposed project also includes use of a 6-inch water service lateral tapping into an existing private 8-inch water service stub off of the existing Mixed Use Building that was a part of the North Shore Lot 10 project (PWSA DEV-155-0822 and DEP Code No. 02001-21-090). The private infrastructure taps into an existing 12-in PWSA water main located in the sidewalk fronting North Shore Drive. A new fire service line will be installed after the existing water stub. A domestic service line will tee off the fire service. Proposed pipe sizes will be confirmed prior to construction. The anticipated water consumption for the plaza is expected to be the same as the anticipated average sewage flow for the plaza (7,402 gallons per day total) , or 24.7 EDUs.

The calculations of the total anticipated sanitary flows are based on the flow estimates found in Table 3.1: Peak Daily Wastewater Flow Estimates in the PWSA Developer's Manual. The North Shore Entertainment Plaza flows had been previously accounted for in permitting for the North Shore Lot 10 project (PWSA DEV-155-0822 and DEP Code No. 02001-21-090). However, the proposed flows are greater than that permitted. The North Shore Lot 10 project had anticipated an average sewage flow of 30,810 GPD, or 102.7 EDUs (refer to Appendix K). The revised anticipated average sewage flow for the North Shore Lot 10 project is 34,449 GPD, or 114.8 EDUs. For the North Shore Entertainment Plaza project, the increase in flows is 3,639 GPD, or 12.1 EDUs. A more detailed breakdown of proposed versus permitted water consumption can

be found in Appendix C Anticipated Sewage Flow Reference. Permitting for this project will be for the increase in flows.

The proposed sanitary flow for the plaza is expected to be the same as the anticipated average water consumption for the plaza (7,402 gallons per day total). Since the North Shore Lot 10 project is included in the overall North Shore development, the sewage flows are accounted for in the North Shore Sewage Facilities Planning Module (SFPM), which was approved on April 19th, 2000 (see Appendix C – Approved Sewage Facilities Planning Module). However, PWSA had required that a separate SFPM be submitted for the Mixed Use Building. This SFPM was approved on August 10, 2022 (see Appendix C – Approved Sewage Facilities Planning Module).

Section J of Component 3 was completed using the calculation methodology and procedures outlined by the PWSA Developer's Manual, revised April 24th, 2020. Method #2 Flow Monitoring from the Developer's Manual was implemented to estimate the Present Peak Flow based on flow measurements at the most limited capacity sewer (between PWSA MH008K057 and PWSA MH008K058) for 30 days from January 21, 2022 to February 19, 2022. The most limited capacity sewer (between PWSA MH008K057 and PWSA MH008K058) was determined by PWSA. As PWSA MH008K058 is downstream of PWSA MH008K057, PWSA MH008K058 was chosen as the location to monitor the flow. The flow meter was installed inside PWSA MH008K058 for the duration of the flow monitoring – January 21, 2022 to February 19, 2022 – with measurements of the head and the velocity of the water taken every five minutes.

Data from the flow monitoring can be found in Appendix C under Anticipated Sewage Flow Reference. Pipe capacity information provided by PWSA was used in conjunction with Manning's Equation to estimate the Peak Design Capacity, and a Peak Factor of 3.5 was used to estimate the Average Design Capacity. The Projected Peak Flow was calculated by multiplying the sum of the Present Peak Flow and the Anticipated Flow Contribution for the project by a factor of 1.05 to estimate the projected flow in 5 years. The Projected Average Flow was calculated by dividing the Projected Peak Flow by the Peak Factor of 3.5. Based on these calculations, it has been determined that the anticipated flow contribution for the proposed project will not create undue stress on the existing PWSA system's capacity.

**ANTICIPATED SEWAGE
FLOW REFERENCE**

**PROPOSED SANITARY PIPE CALCULATIONS
NORTH SHORE ENTERTAINMENT PLAZA**

Q_{max}	Based on Total Units Discharging
Q_{design}	$3.5 * Q_{max}$
Q_{full}	$1.49/n * A_{pipe} * R^{2/3} * S^{1/2}$
Q_{half}	FLOW AT HALF FULL = $0.48 * Q_{full}$
V_{max}	VELOCITY AT 80% FULL = $1.15 * Q_{full} / A_{pipe}$
V_{half} , (fps)	VELOCITY OF FLOW AT HALF FULL = $Q_{half} / (A_{pipe} * 0.5)$
PIPE SIZED ACCORDINGLY	CHECKS IF Q_{design} IS LESS THAN Q_{half}

FROM PLAZA TO MIXED USE BLDG

MINIMUM SLOPE WITHIN THIS ENTIRE RUN = 1.0%

MATERIAL	SDR26	Q_{full} , cfs	Q_{full} , gpd	Q_{half} , cfs	Q_{half} , gpd	V_{max} , fps	V_{half} , fps
LENGTH, ft	20	2.02	1,308,197	0.97	627,935	6.67	5.80
DIAMETER, in	8						
SLOPE	2.00%	PIPE SIZED ACCORDINGLY: TRUE					
n	0.011	$V_{max} < 10$ fps: TRUE					
Q_{max} , gpd	7,402	$V_{half} > 2$ fps: TRUE					
Q_{design} , gpd	22,206						

Date: 9/12/2023
 Langan Project Number: 250101503
 Calc by: AXJ
 Check by: RIM

NORTH SHORE ENTERTAINMENT PLAZA			
PROPOSED SEWAGE FLOW ESTIMATION (FOR DEP PERMITTING)			
Unit Description	Number of Units	Anticipated Average Rate (GPD/Occupant)¹	Anticipated Average Sewage Flow (GPD)
Restaurants (kitchen and toilet wastes, single-service utensils/person) + Bar/Cocktail Lounge ²	705	10.5	7,402
Proposed GPD (Water Supply)=			7,402
Proposed GPD (Sanitary Load) =			7,402
Proposed EDUs³ (Water Supply)=			19
Proposed EDUs³ (Sanitary Load)=			19

Notes:

1 – Rate is based on the flow estimate defined in Table 1 of the PWSA developers manual (equivalent to estimates defined in Appendix A of the PA DEP Small Flow Treatment Facilities Manual)

2– Number of patrons (units) includes an assumed turnover rate of 3 and 50 SF of restaurant space per patron

3– EDUs are based on 400 GPD/EDU.

PERMITTED - 30,810 GPD

Restail/Restaurant Tenant	Total (SF)	Patron Area (SF) 0.75 x Total SF	Patrons 50 SF/Patron	gpd/Patron	Total Flow (gpd)	Turnover Rate	Total Flow with Turnover Rate (gpd)	Total (EDUs) (300 gpd/EDU)
Retail/Restaurant Space 1	14628	10971	219	12	2633	3	7900	26
Restaurant Space 2	4370	3278	66	12	787	3	2360	8

Unit Type	Units	gpd/Unit	Total Flow (gpd)	Total (EDUs)
1 BR Apts	79	150	11850	39.5
2 BR Apts	29	300	8700	29

PROPOSED - 27,491 GPD

Restail/Restaurant Tenant	Total (SF)	Patron Area (SF) 0.75 x Total SF	Patrons 50 SF/Patron	gpd/Patron	Total Flow (gpd)	Turnover Rate	Total Flow with Turnover Rate (gpd)	Total (EDUs) (300 gpd/EDU)
Experiential Restaurant - Outdoor Seating	3255	2441	49	12	586	3	1758	6
Experiential Restaurant - Indoor Seating	8775	6581	132	12	1580	3	4739	16
Food Stand	15664	11748	235	10.5	2467	3	7402	25

Unit Type	Units	gpd/Unit	Total Flow (gpd)	Total (EDUs)
1 BR Apts	79	150	11850	39.5
2 BR Apts	29	300	8700	29

PERMITTED vs. PROPOSED

	Total Flows	Total (EDUs) (300 gpd/EDU)	Total (EDUs) (400 gpd/EDU)
Permitted	30810	103	77
Proposed	34449	115	86
Difference (Proposed - Permitted)	3639	12	9

Existing and Proposed Sanitary Pipe Calculations
North Shore Entertainment Plaza
North Shore Drive 12-IN PWSA Sanitary Sewer (MH008L070 - MH008K057)
Dry Flow Comparison Calculations

Given Information	
Pipe Location:	North Shore Drive
Pipe Type:	PVC
Pipe Diameter (IN) ⁽¹⁾ :	12
Slope ⁽²⁾ :	1.12%
Depth of Flow (IN) ⁽²⁾ :	2.8
Manning's n Value:	0.01

Solve for Present Average Dry Flow Based on Flow Monitoring	
Flow (GPD):	24,000

Solve for Present Peak Flow	
Peak Factor:	3.0
Flow (GPD)⁽³⁾:	72,000

Solve for Peak Design Capacity (Present)	
Flow (CFS):	4.915
Flow (GPD):	3,175,941

Solve for Average Design Capacity (Present)	
Peak Factor:	3.0
Flow (GPD):	1,058,647

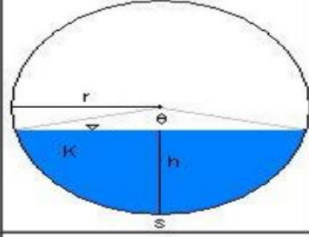
Solve for Projected Peak Flow in 5 Years	
PWSA 5-year Factor	1.05
Anticipated Flow Contribution (GPD) ⁽⁴⁾ :	3,639
Flow (GPD):	79,421

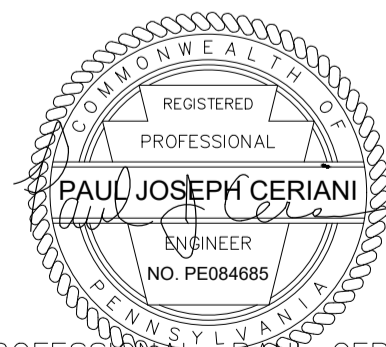
Solve for Average Flow in 5 years	
Flow (GPD):	26,474

Summary	
Anticipated Peak Flow Contribution (GPD) ⁽⁴⁾ :	3,639
Present Average Flow (GPD):	24,000
Present Peak Flow (GPD):	72,000
Average Design Capacity (GPD):	1,058,647
Peak Design Capacity (GPD):	3,175,941
Average Projected Flow (GPD)	26,474
Peak Projected Flow (GPD)	79,421

$$V = \frac{k}{n} R^{2/3} S^{1/2} \quad k = 1.4859 \text{ ft}^{1/3} / \text{s} \quad Q = VA$$

1. Sewer diameter referenced from PWSA output data provided September 27, 2023
2. Sewer slope referenced from PWSA output data provided September 27, 2023
3. Present flow based on peak hourly average dry flow as monitored in PWSA Manhole MH008K058 for 30 days between January 21, 2022 through February 19, 2022
4. Flow estimation calculation based on floor plan provided by Barker\Nestor, Strada, and Continental. Flow estimation is difference between previously approved flows (27,941 GPD) and proposed flows (30,810 GPD), net flow is 3,639 GPD. 30,810 - 27,941 = 3,639

step	solve for	if flow depth < radius
		
1	circular segment height	$h = d$
2	central angle	$\theta = 2 \arccos\left(\frac{r-h}{r}\right)$
3	circular segment area	$K = \frac{r^2(\theta - \sin \theta)}{2}$
4	arc length	$s = r \times \theta$
5	flow area	$A = K$
6	wetted perimeter	$P_w = s$
7	hydraulic radius	$R_h = \frac{A}{P_w}$



PROFESSIONAL ENGINEER
 STATE LIC. No. PE084685

FLOW MONITORING GRAPHICAL RESULTS

Most Limited Capacity Sewer (MLCS) Spreadsheet

PROJECT NAME: 20b Mazerowski Way
 PWSA PROJECT NUMBER: DEP-15-0923
 PWSA REVIEWER: Midori Bridges
 DATE: September 27, 2023

LEGEND:

Output Data
Input Data
Questionable Data
Hydraulically Limited Sewer

MLCS

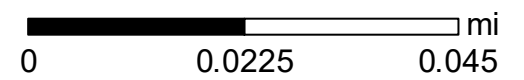
Upstream MH	Downstream MH	Upstream Invert	Downstream Invert	Length, ft	Diam., in.	Material	n	Area, sf	Wetted P, ft	Slope	Flow, gpd
MH008L070	MH008K057	719.55	715.05	403.26	12	PVC	0.01	0.79	3.142	1.12%	3,170,750
MH008K057	MH008K058	715.05	705.88	54.05	12	PVC	0.01	0.79	3.142	16.97%	12,363,321
MH008K058	VD008LA46	705.88	700.00	282.37	12	PVC	0.01	0.79	3.142	2.08%	4,331,394

20b Mazeroski Way SFPM



Legend

WATER	SEWER	



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

Date: 9/27/2023

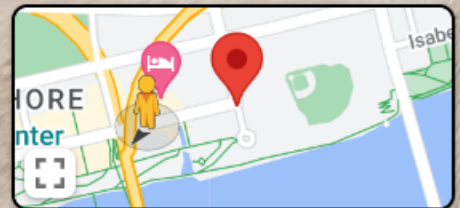
N Shore Dr & Mazeroski Way, Pittsbur

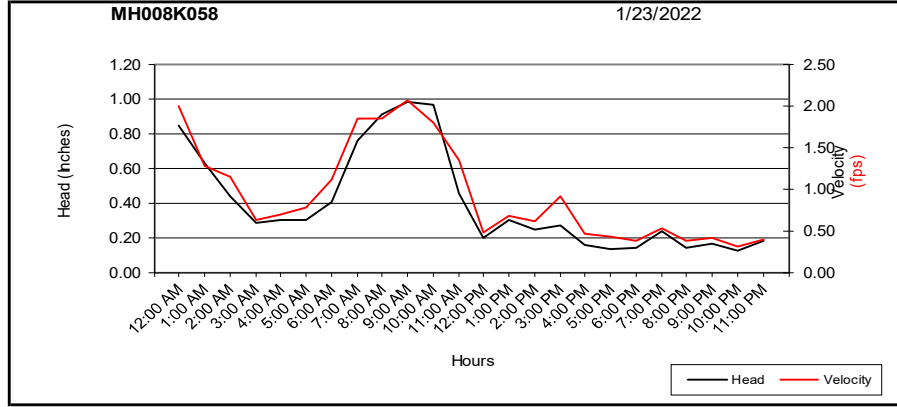
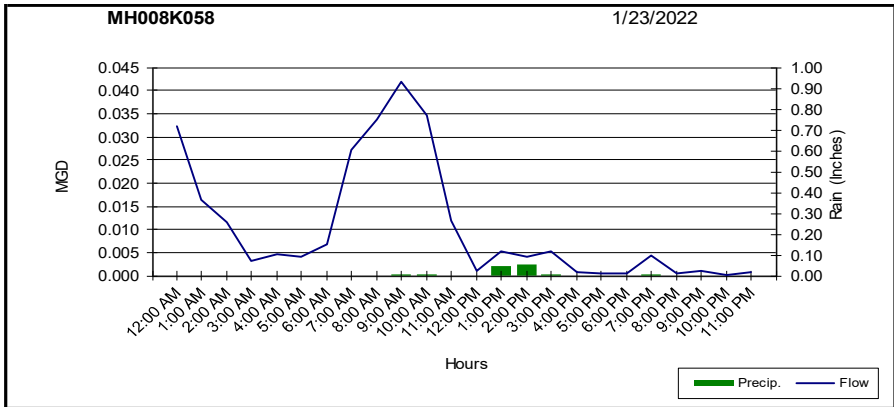
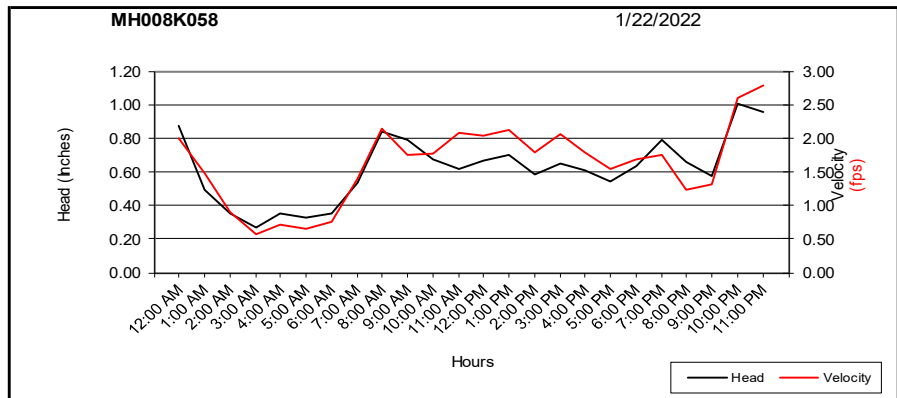
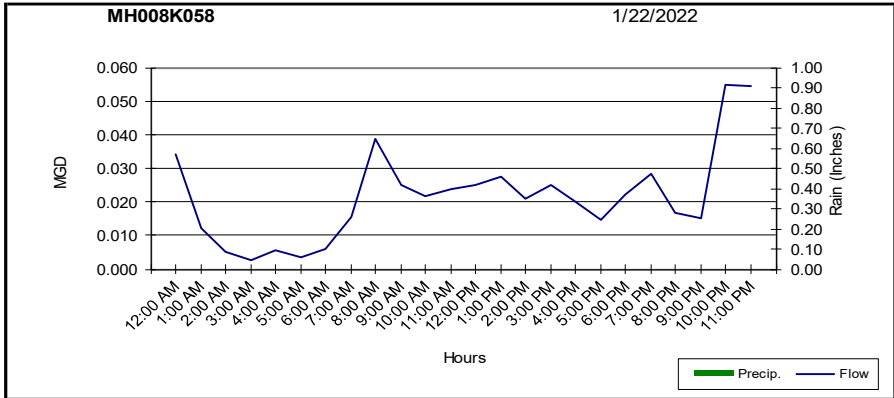
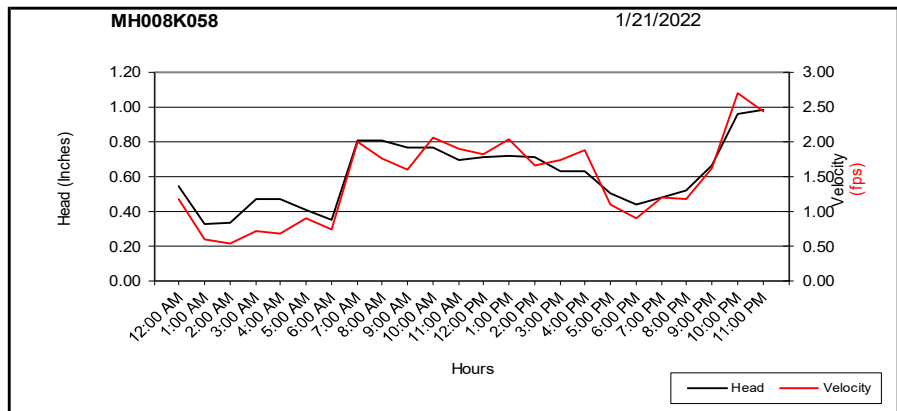
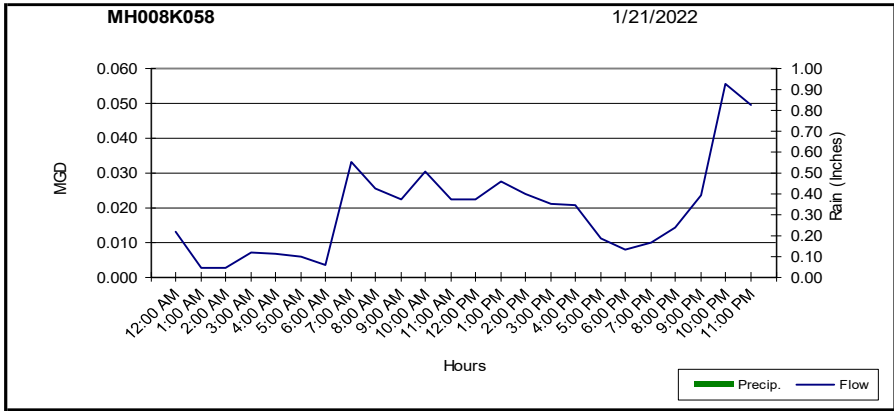
271 N Shore Dr
Pittsburgh, Pennsylvania
Google Street View
Jun 2022 See more dates

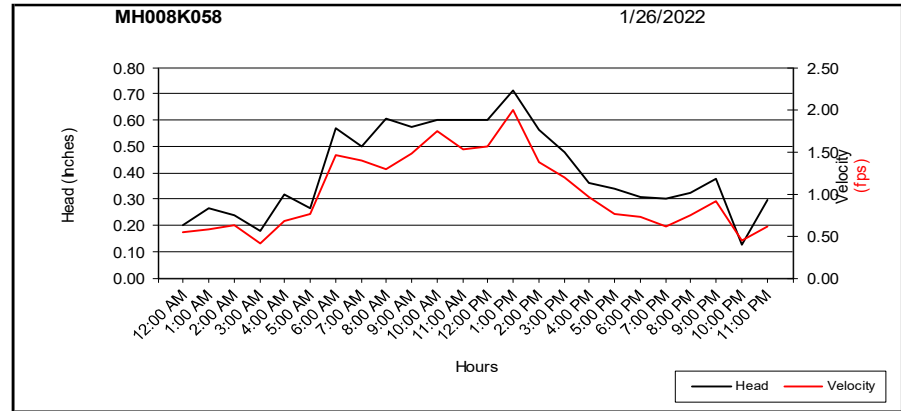
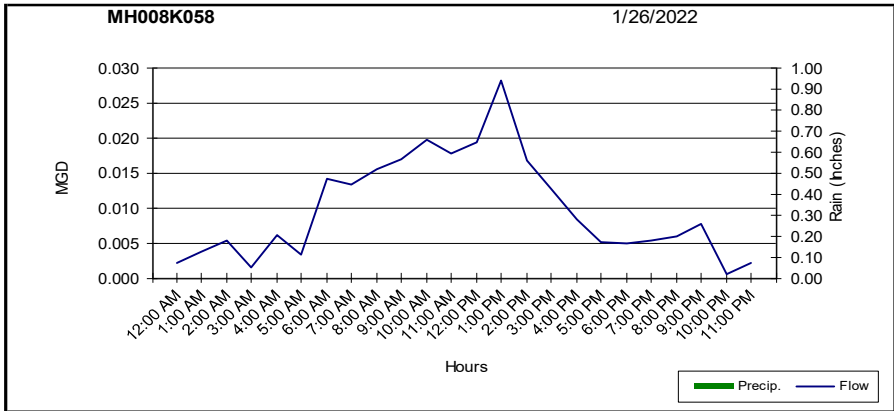
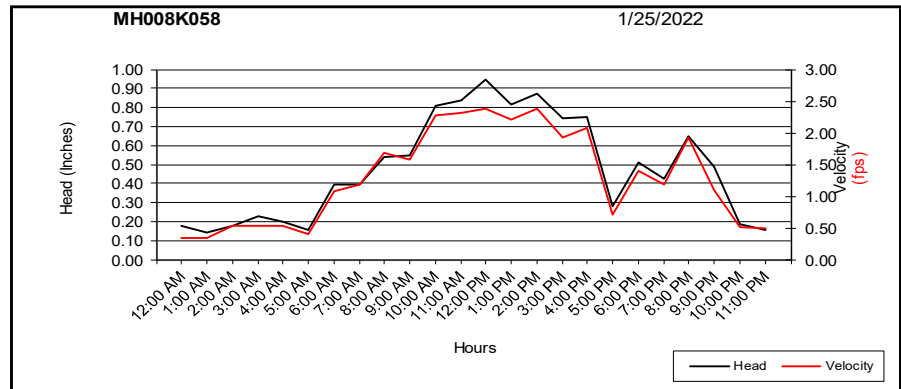
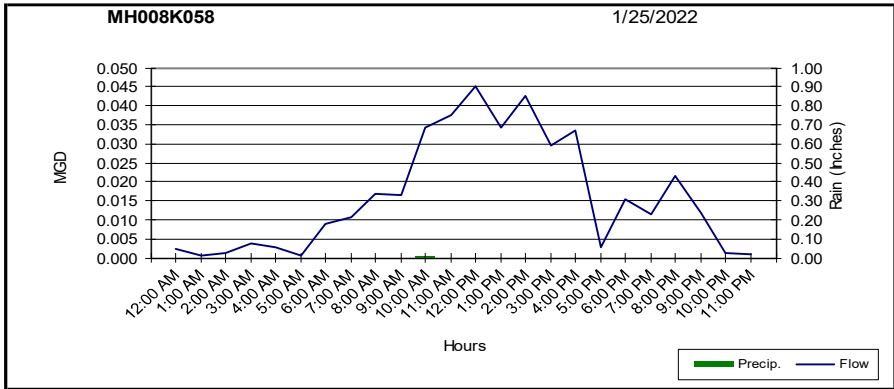
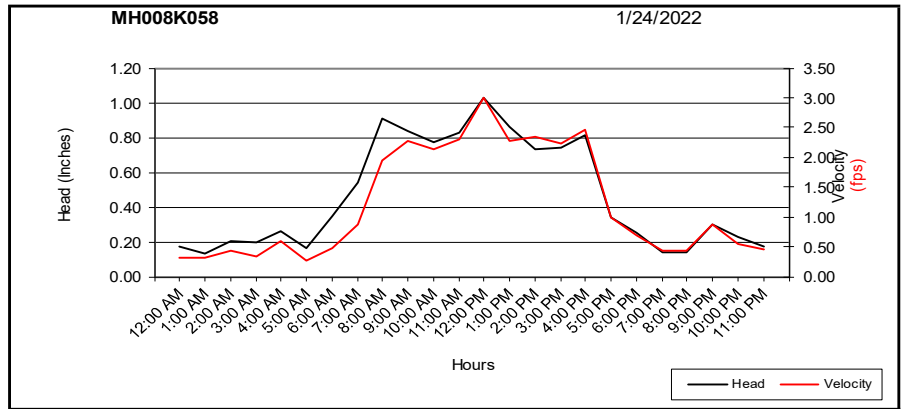
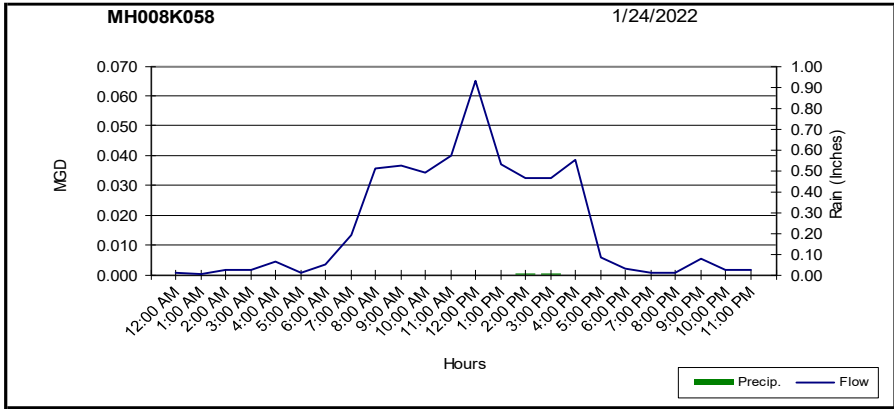
271
SAP
cadence

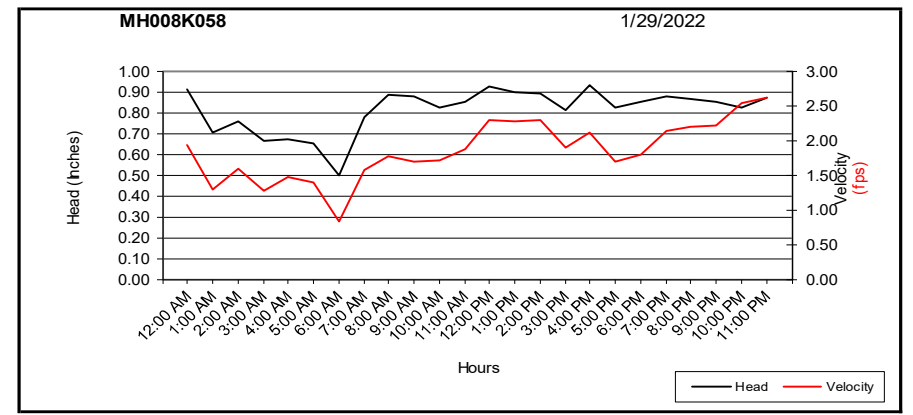
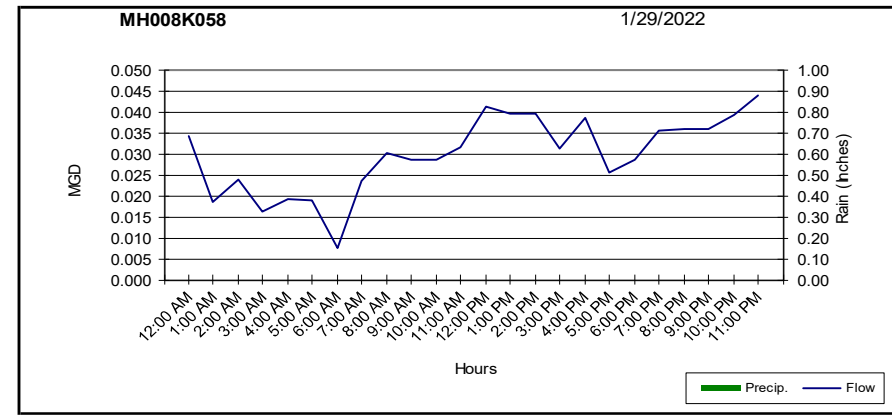
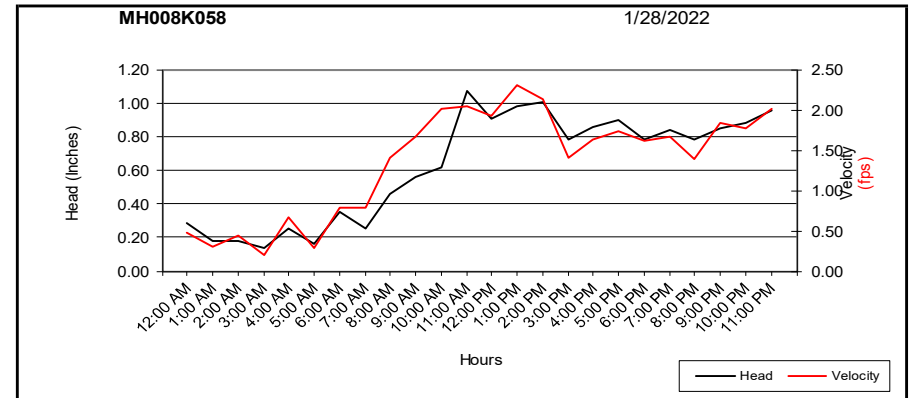
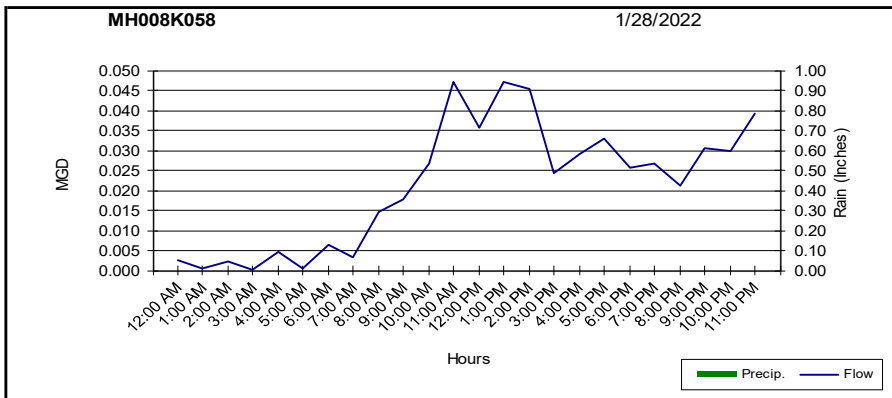
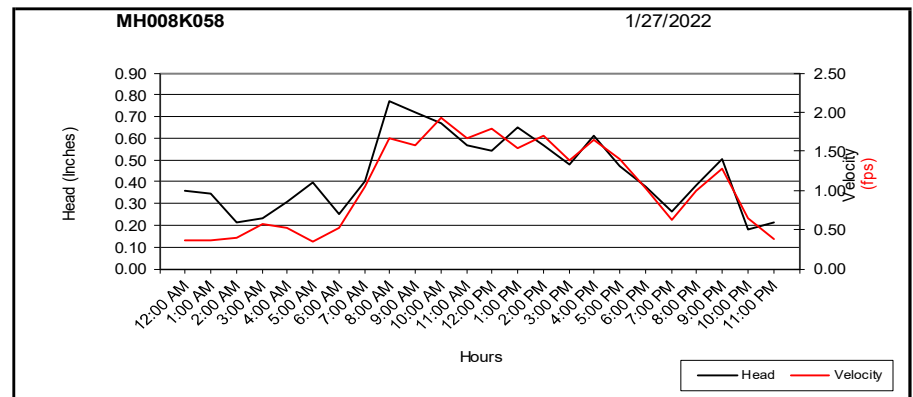
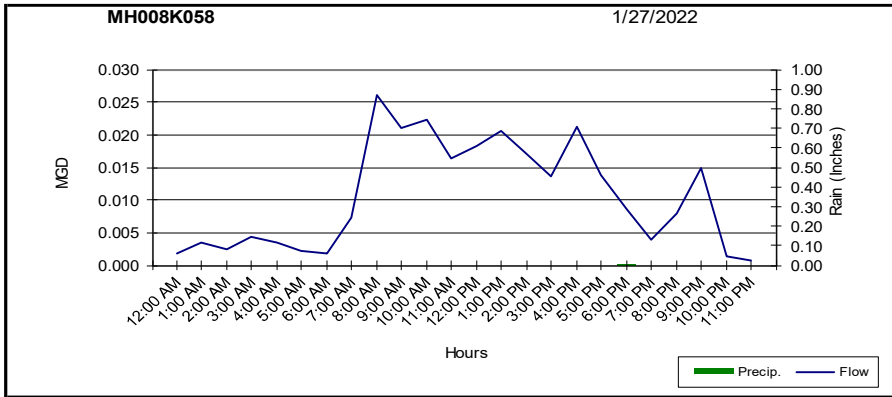
CBRE
FOR LEASE
+1 412 471 1000

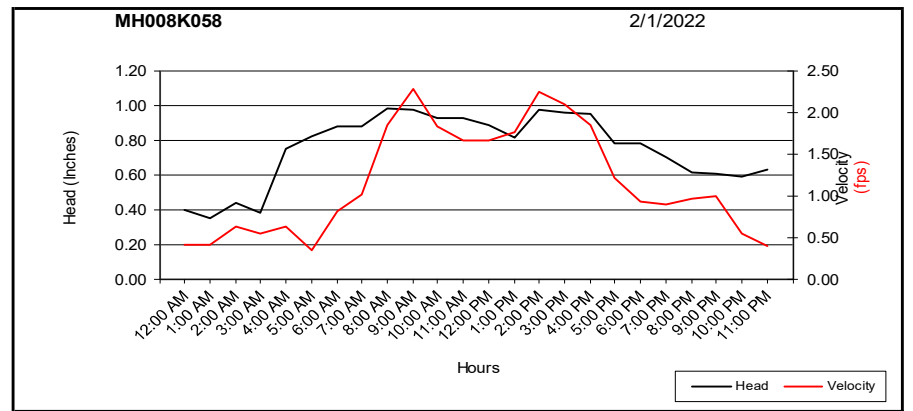
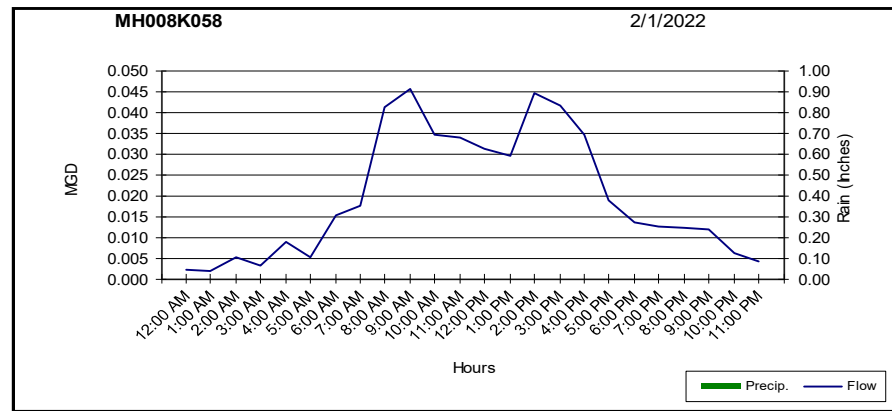
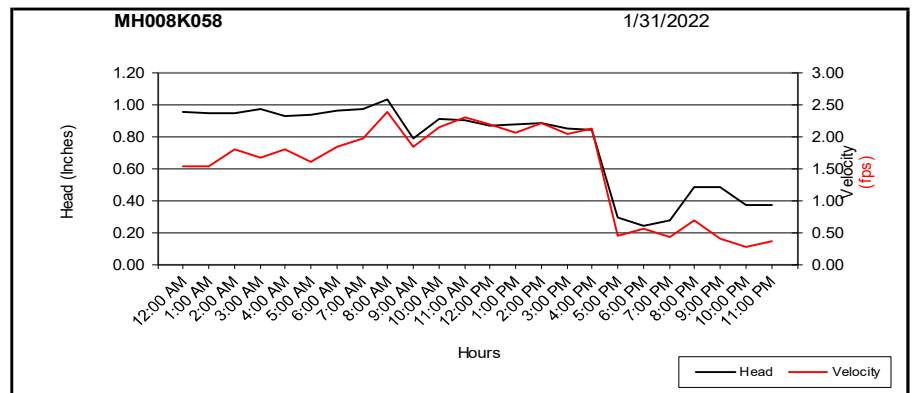
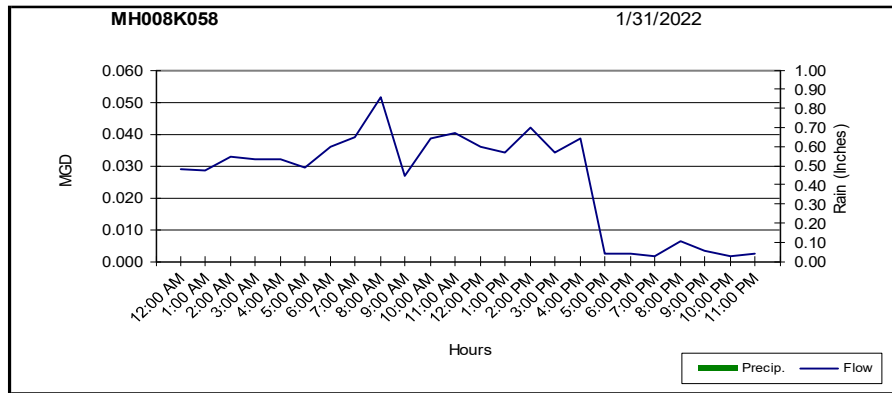
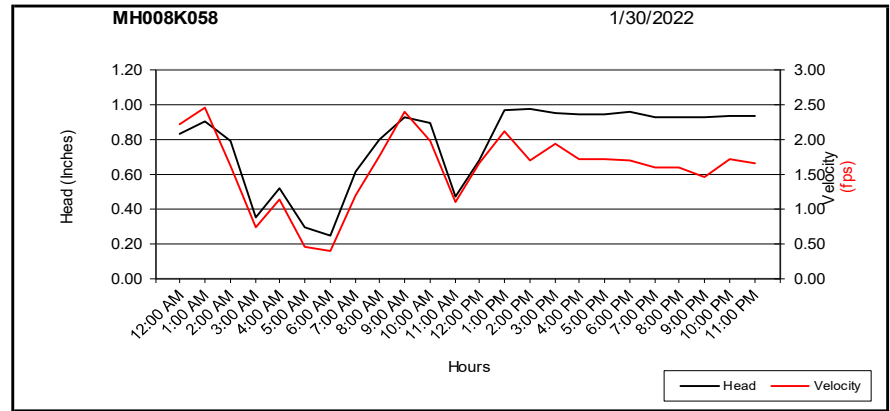
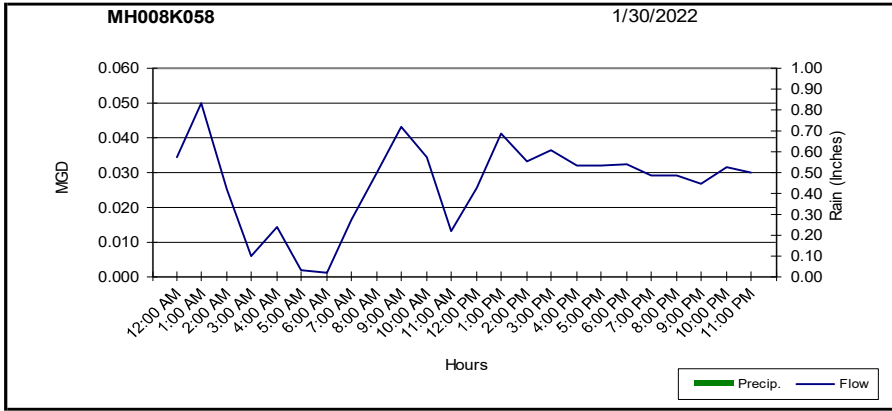
Peak Flow Depth
Measurement
Location:
MH008K057

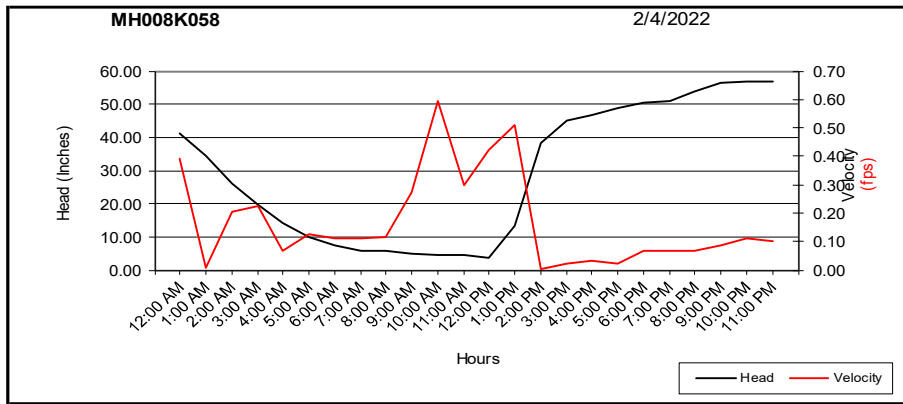
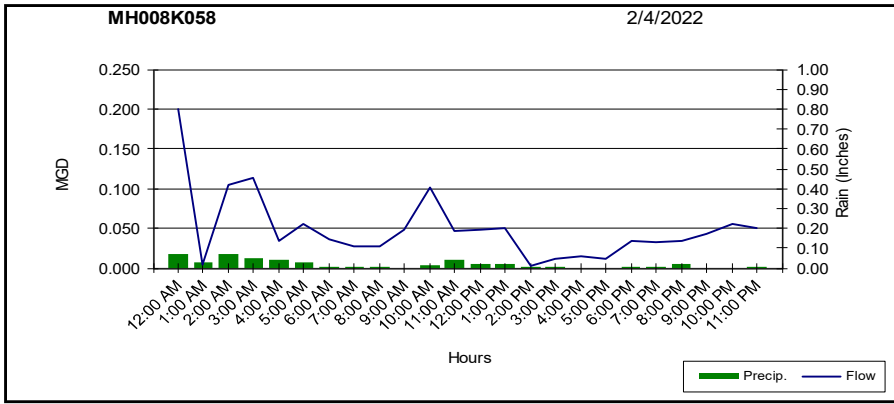
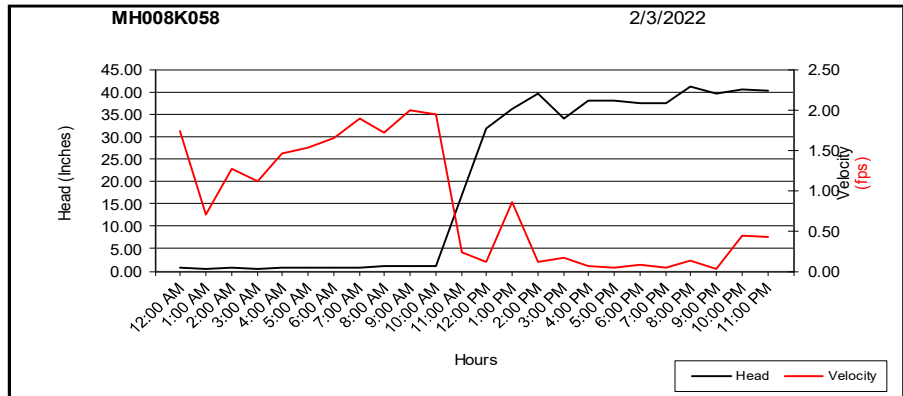
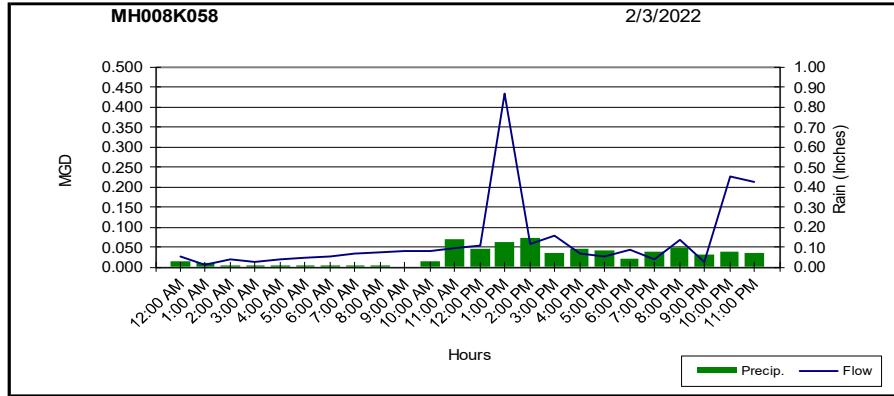
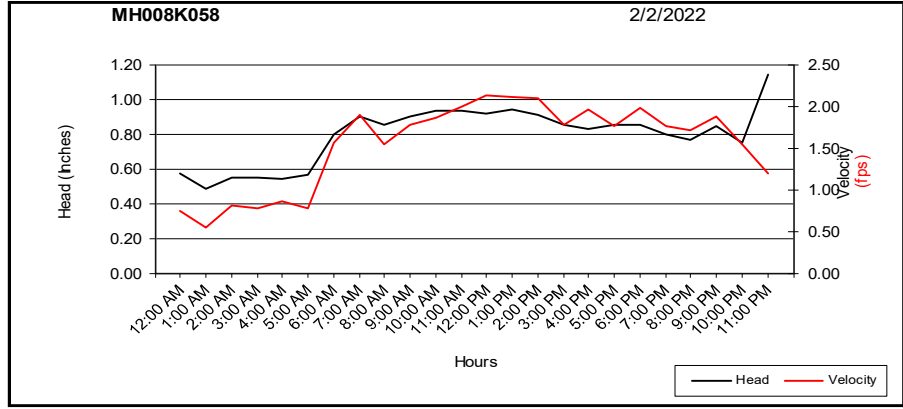
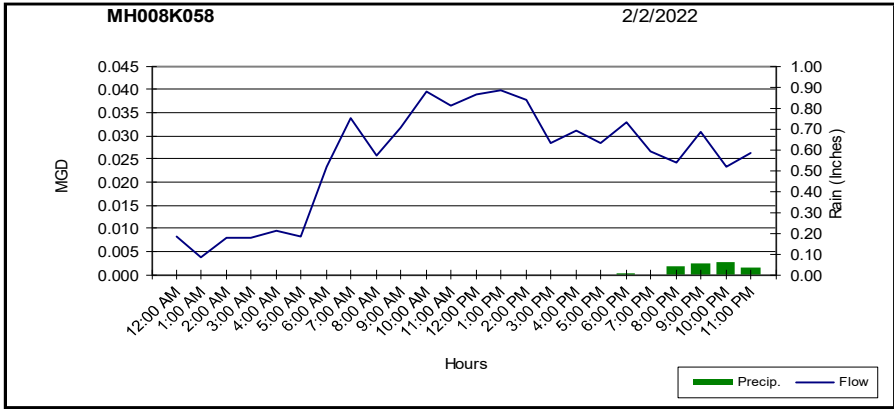


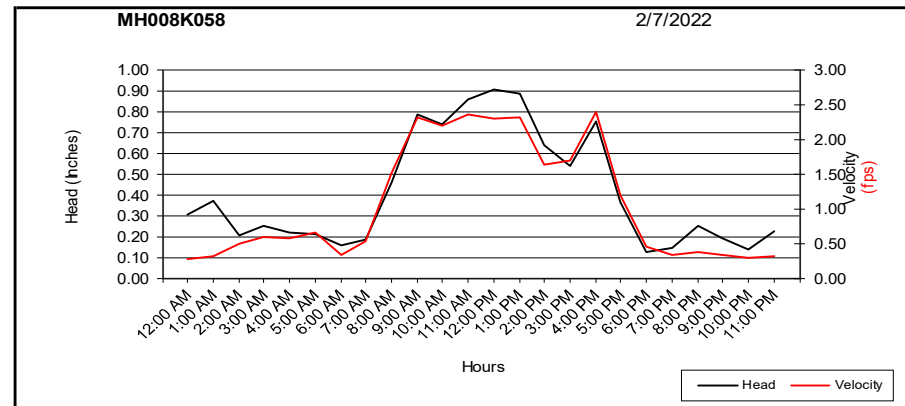
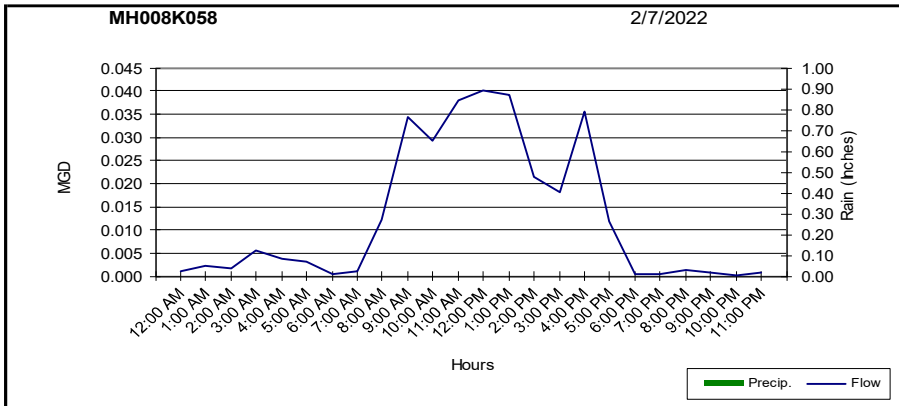
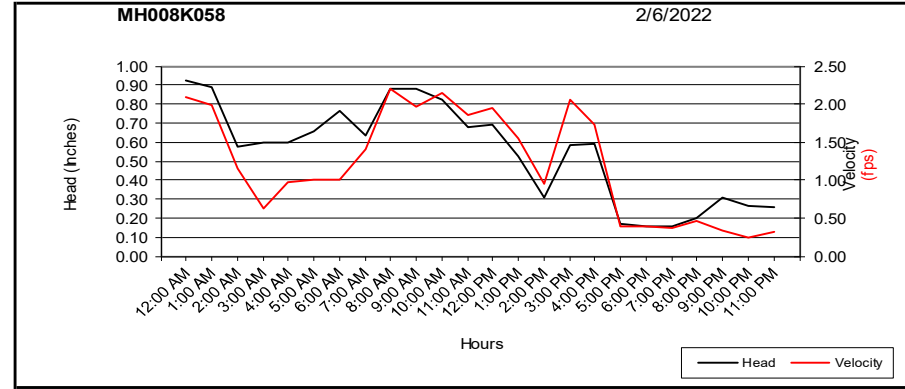
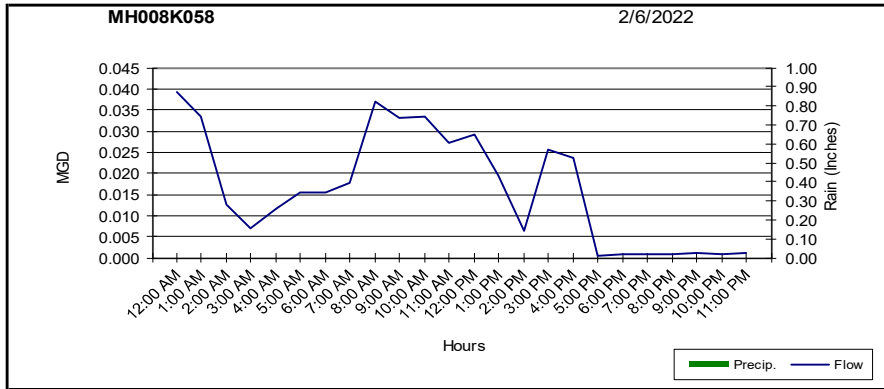
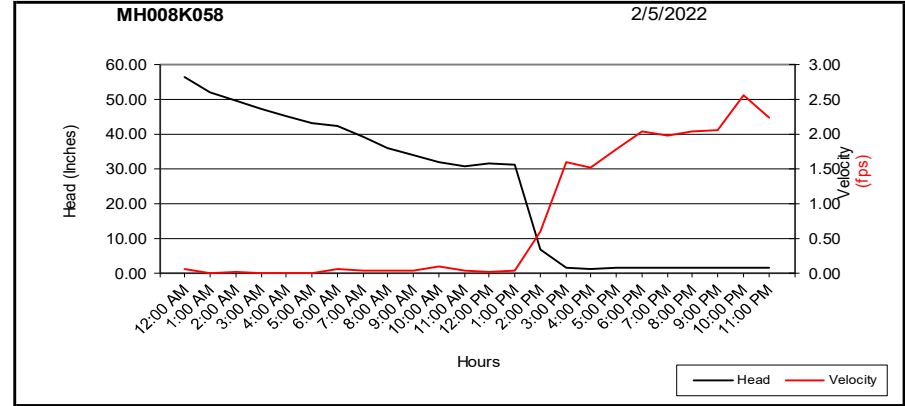
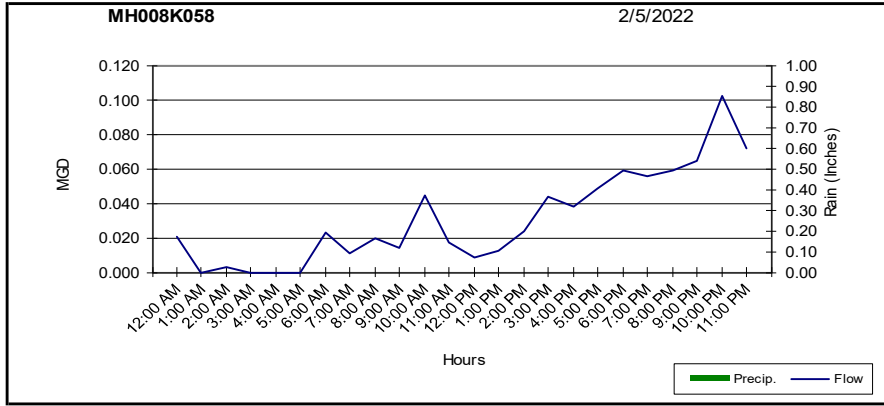


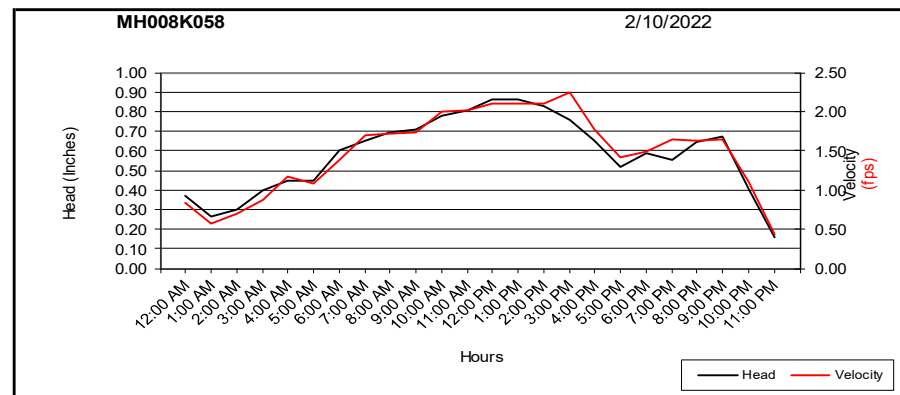
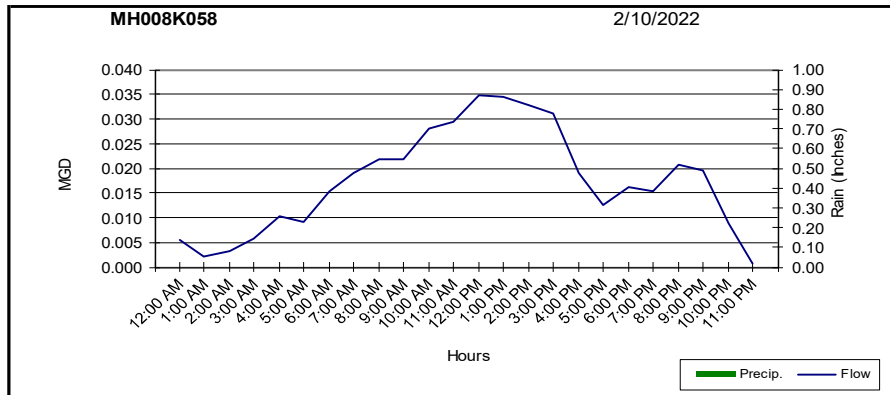
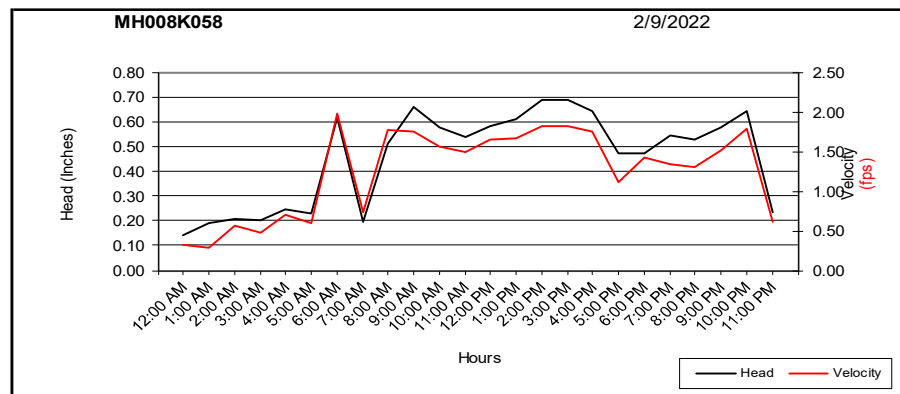
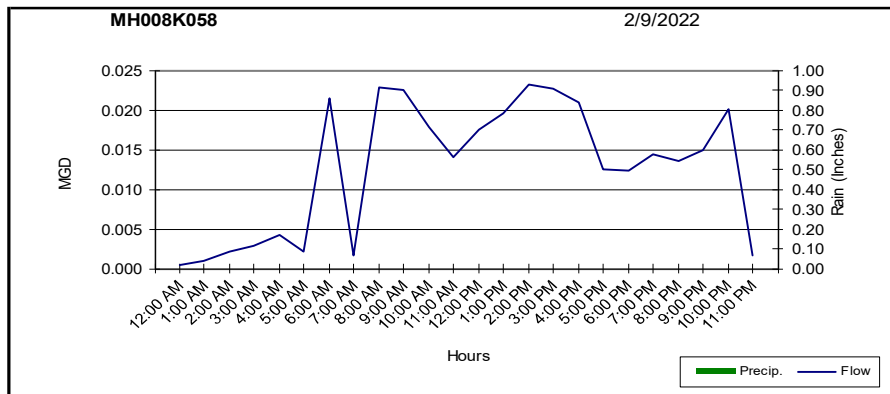
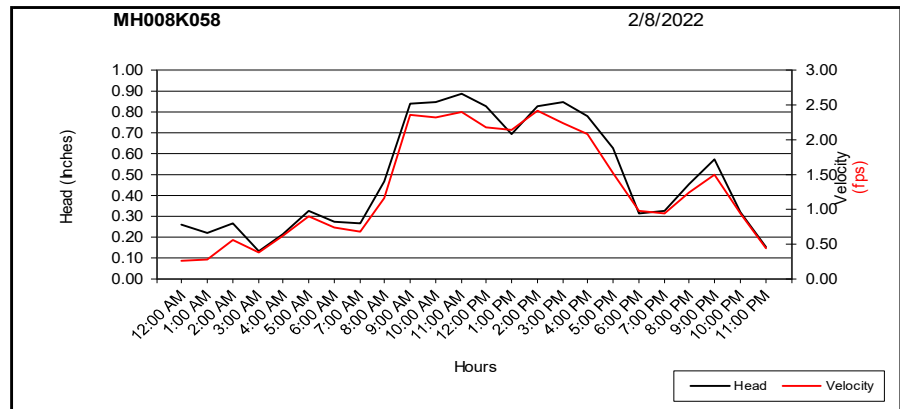
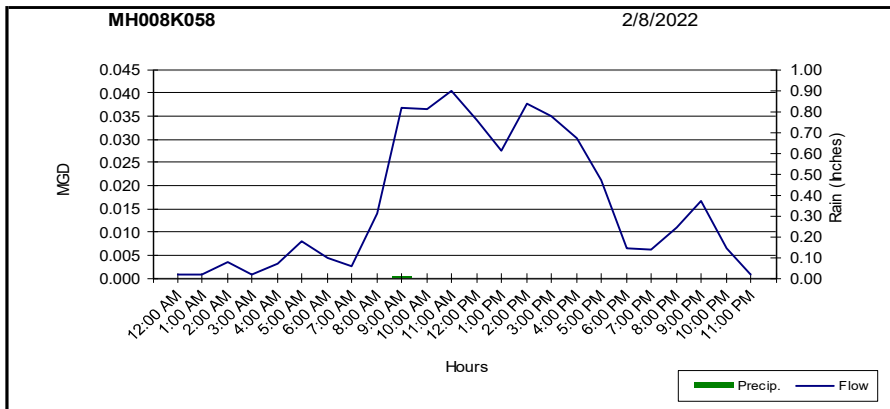


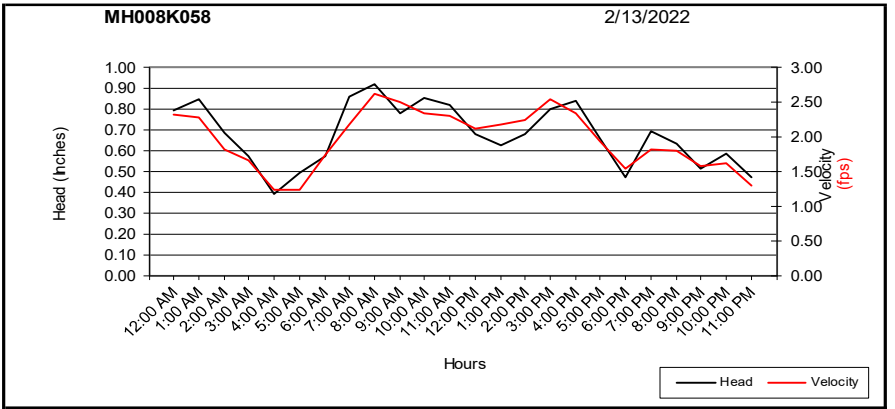
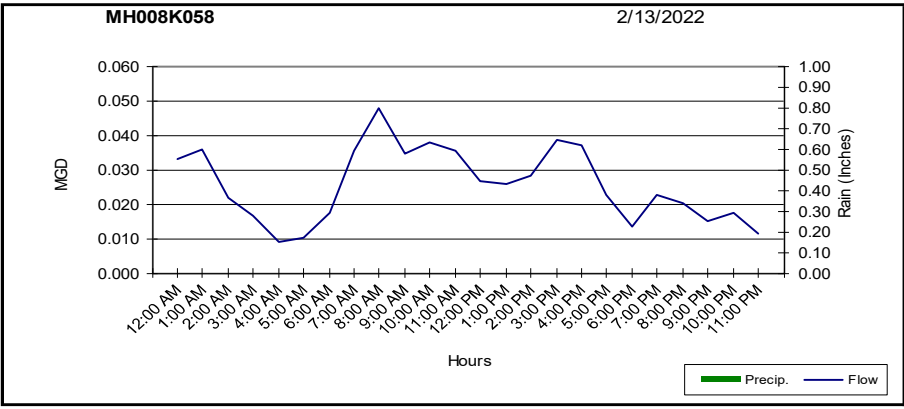
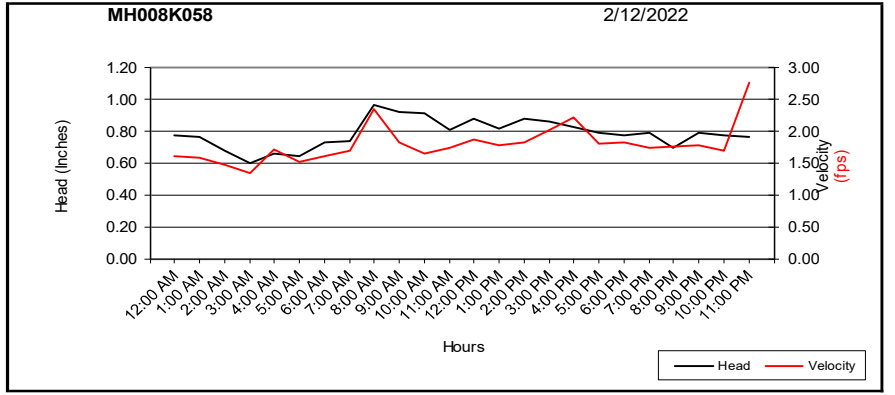
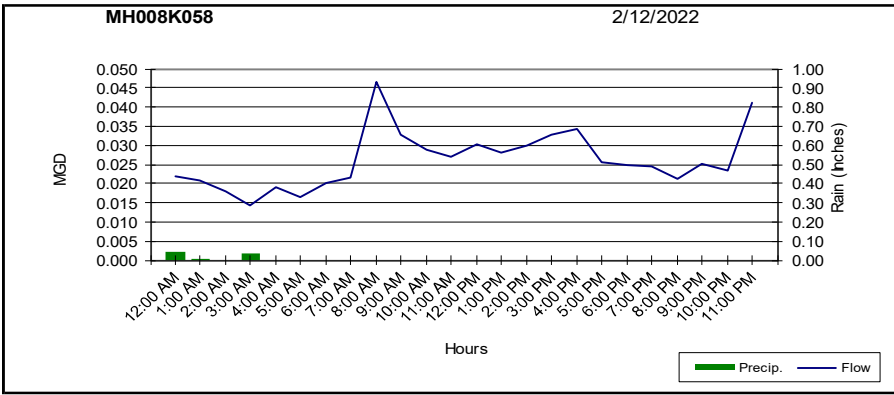
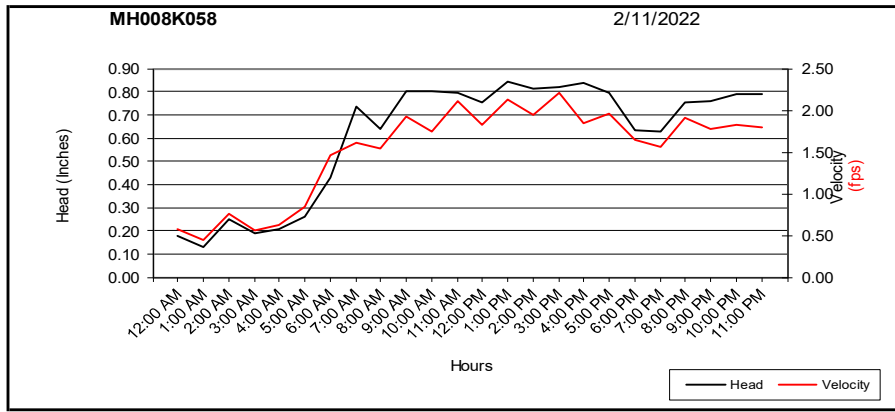
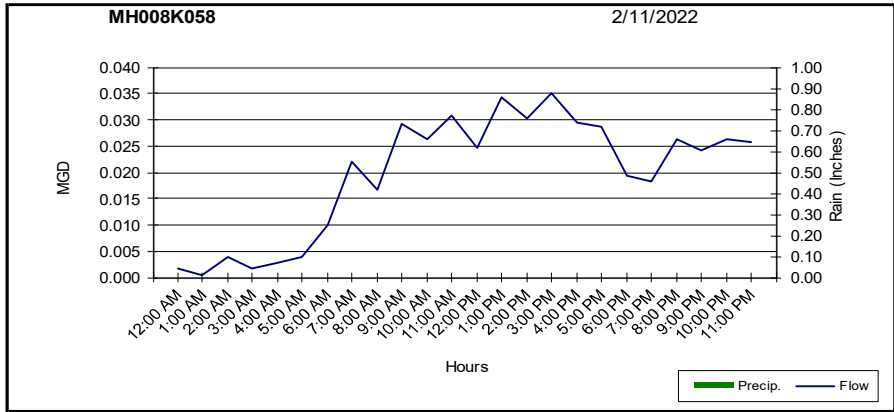


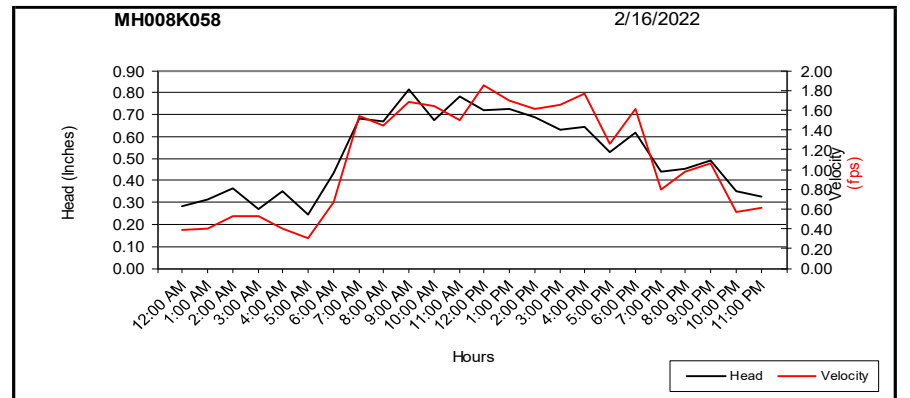
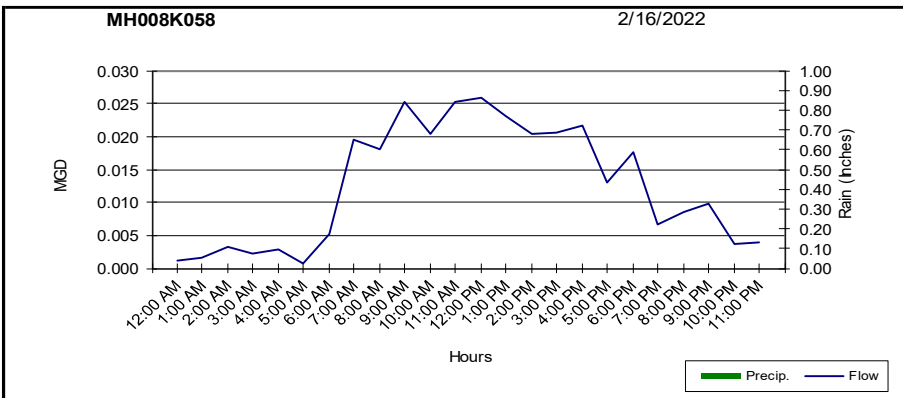
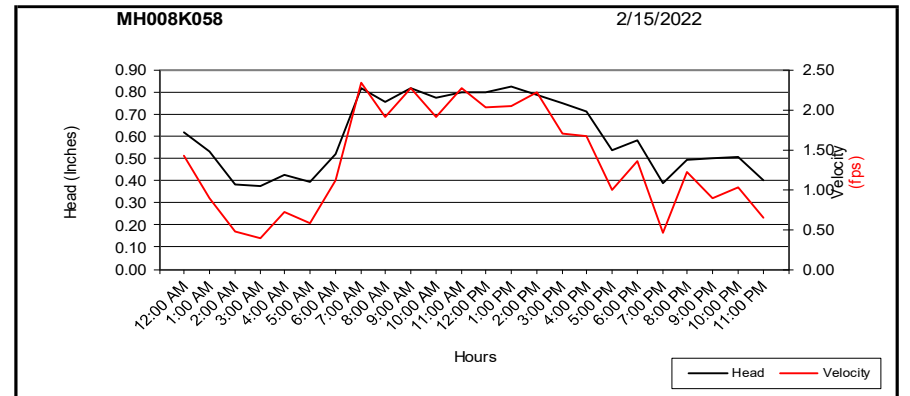
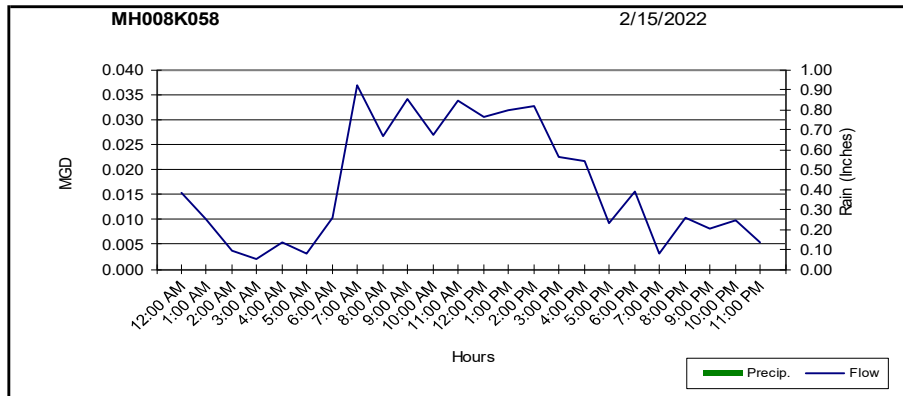
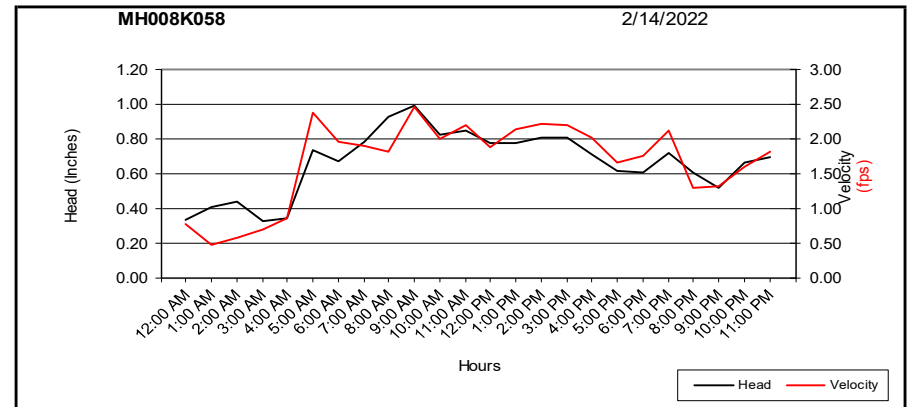
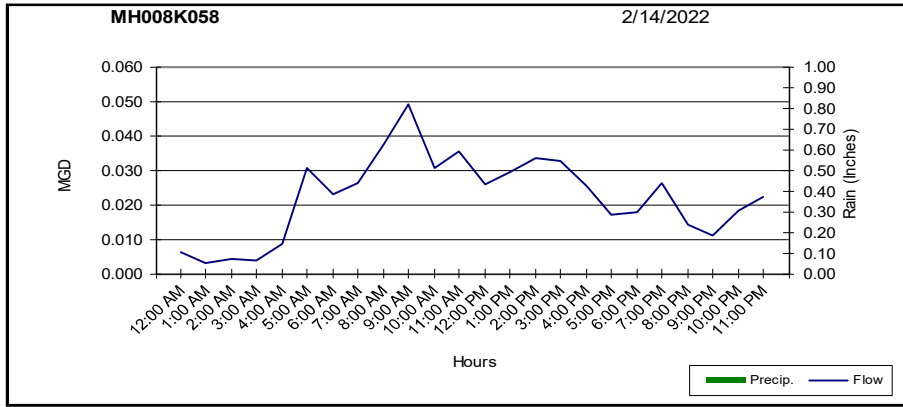


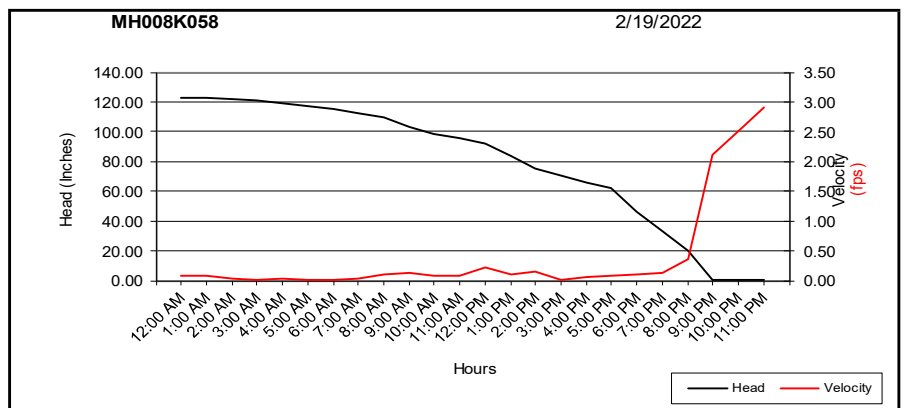
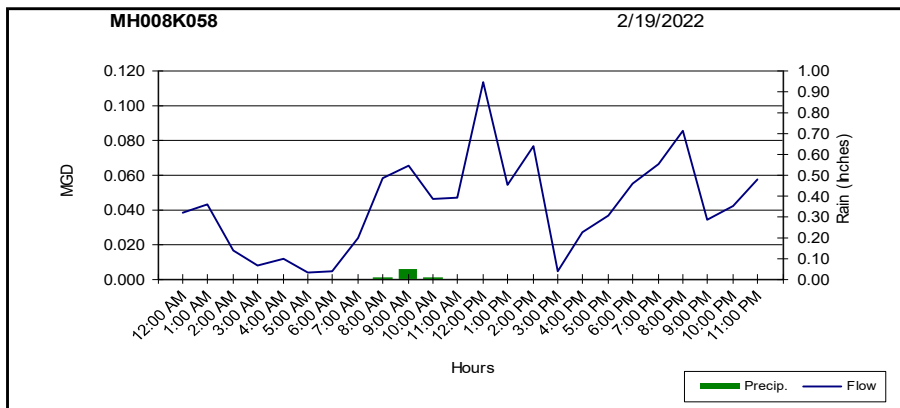
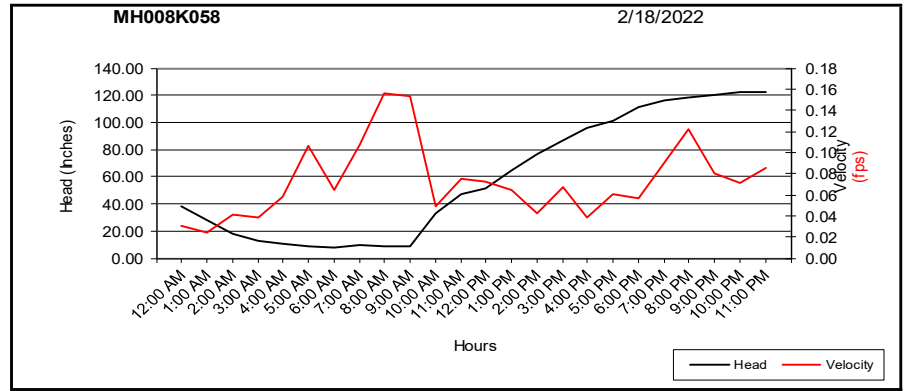
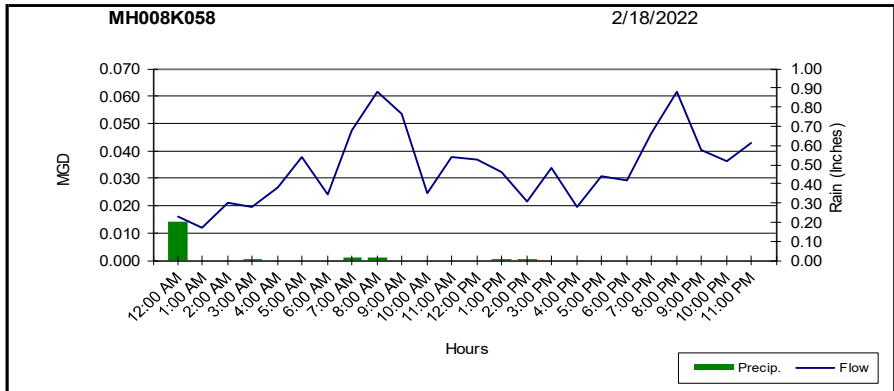
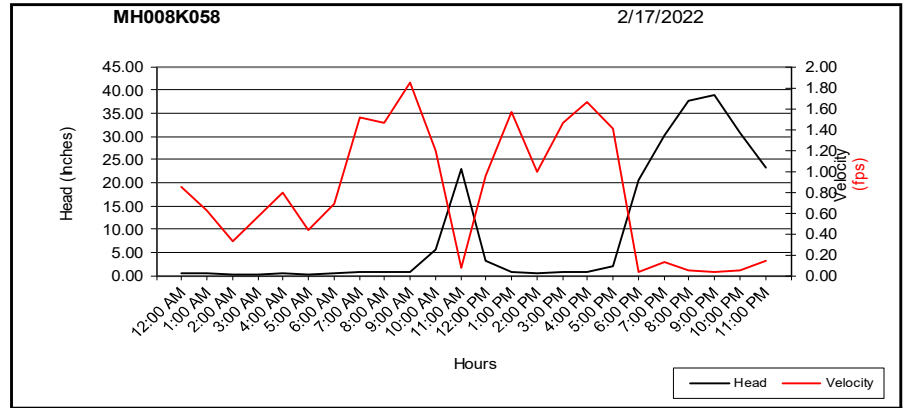
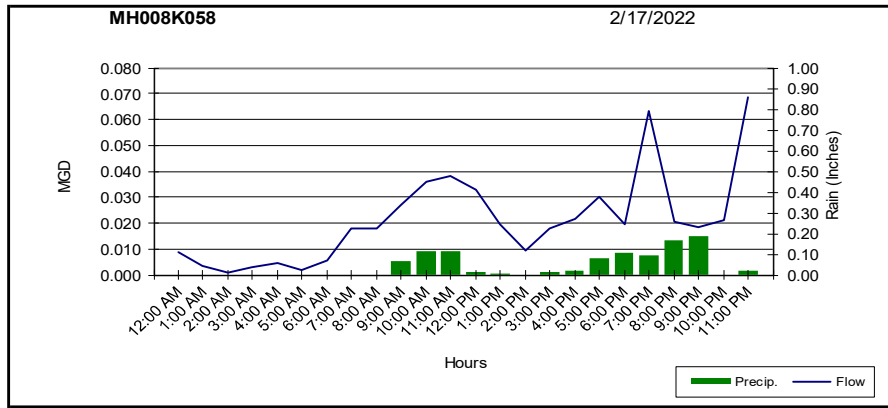












APPENDIX D

Alternative Sewage Facilities Analysis

SECTION H SEWAGE FACILITIES PLANNING MODULE COMPONENT 3

**Re: Alternative Sewage Facilities Analysis
North Shore Entertainment Plaza
City of Pittsburgh, Allegheny County, Pennsylvania
Langan Project No.: 250101503**

The project is located in the North Shore neighborhood of the City of Pittsburgh, Allegheny, County, Pennsylvania. The project site is within the Riverfront North Shore (RIV-NS) Zoning District. The site is bound by 8-K-35 to the south, Mazeroski Way to the east, West General Robinson Street to the north, and City of Pittsburgh parcel 8-K-37 to the west (Champions Garage). The site is currently occupied by a surface parking lot. The proposed entertainment plaza will consist of a food stand, feature wall, and outdoor seating area.

The project includes one 8-inch sanitary sewer service lateral to discharge into an existing private 10-inch sewer stub off of the existing Mixed Use Building that was a part of the North Shore Lot 10 project (PWSA DEV-155-0822 and DEP Code No. 02001-21-090). The private infrastructure outfalls into an existing 12-inch PWSA sanitary sewer in North Shore Drive. The anticipated average sewage flow for the proposed development is 7,402 gallons per day (GPD), or 24.7 EDUs. The North Shore Entertainment Plaza flows had been previously accounted for in permitting for the North Shore Lot 10 project (DEV-155-0822). However, the proposed flows are greater than that permitted. The North Shore Lot 10 project had anticipated an average sewage flow of 30,810 GPD, or 102.7 EDUs (refer to Appendix K). The revised anticipated average sewage flow for the North Shore Lot 10 project is 34,449 GPD, or 114.8 EDUs. For the North Shore Entertainment Plaza project, the increase in flows is 3,639 GPD, or 12.1 EDUs

Alternative methods of sewage disposal that could be considered include on-site subsurface disposal systems (septic systems) and an individual package wastewater treatment plant. The existing building and the existing neighboring developments in the area are all currently connected to the public sewer system; therefore, an on-site septic system would not be consistent with the neighboring buildings, nor would it be a practical solution to provide adequate service for the site. The nearest discharge point from the site for a stream discharge is the Allegheny River, approximately 730 feet south of the site. A package wastewater treatment plant with discharge to the Allegheny River is not feasible due to the size and cost of the site.

APPENDIX E

Public Notice

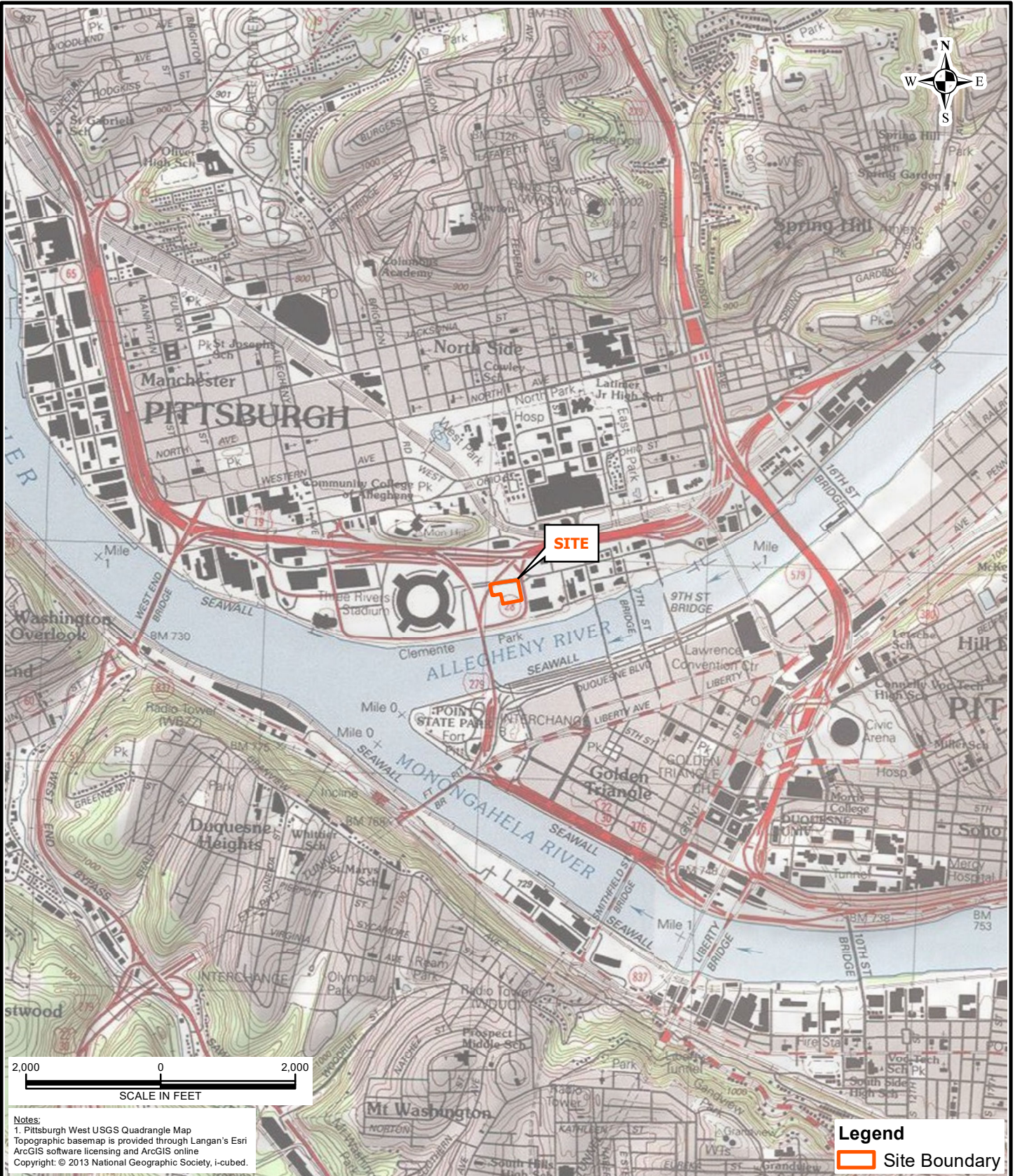
**SECTION P
SEWAGE FACILITIES PLANNING
MODULE COMPONENT 3**

**Re: Public Notice
North Shore Entertainment Plaza
City of Pittsburgh, Allegheny County, Pennsylvania
Langan Project No.: 250101503**


A public notification is not required for this project since no items in Section P of Component 3 (Appendix C) were applicable to this project.

APPENDIX F

USGS Map and Plot Plans



Notes:
 1. Pittsburgh West USGS Quadrangle Map
 Topographic basemap is provided through Langan's Esri
 ArcGIS software licensing and ArcGIS online
 Copyright: © 2013 National Geographic Society, i-cubed.

Legend
 Site Boundary

LANGAN
 2400 Ansys Drive, Suite 403
 Canonsburg, PA 15317
 T: 724.514.5100 F: 724.514.5101 www.langan.com

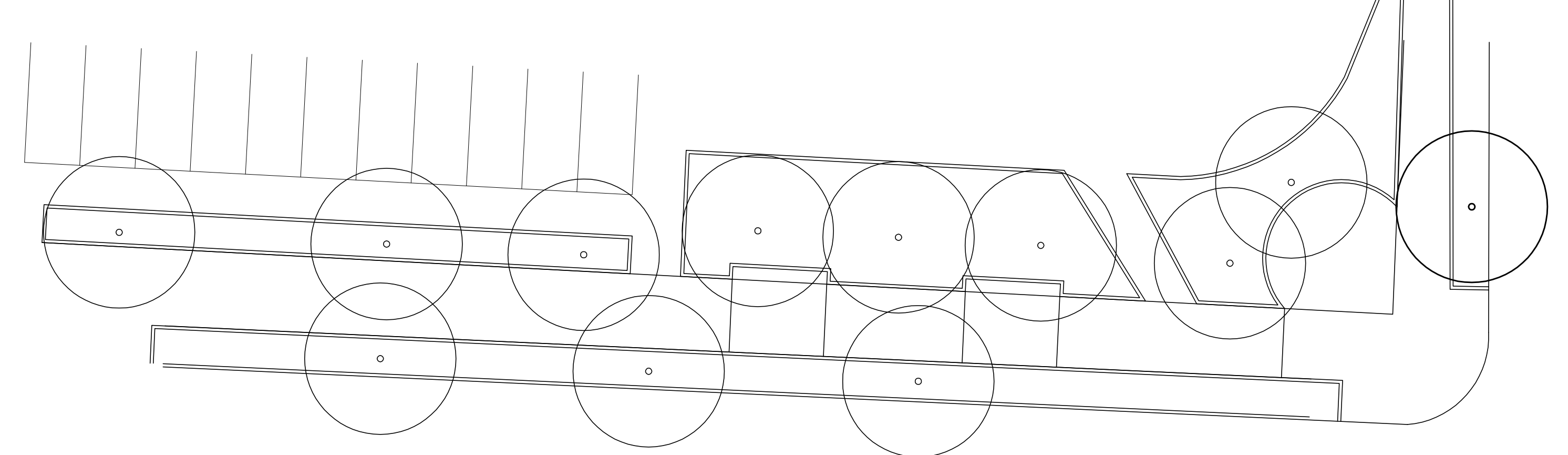
Langan Engineering & Environmental Services, Inc.
 Langan Engineering, Environmental, Surveying,
 Landscape Architecture and Geology, D.P.C.
 Langan International LLC
 Collectively known as Langan

Project
**218 N
 SHORE DRIVE**
 PITTSBURGH
 LOT: 8-K-35
 ALLEGHENY COUNTY PA

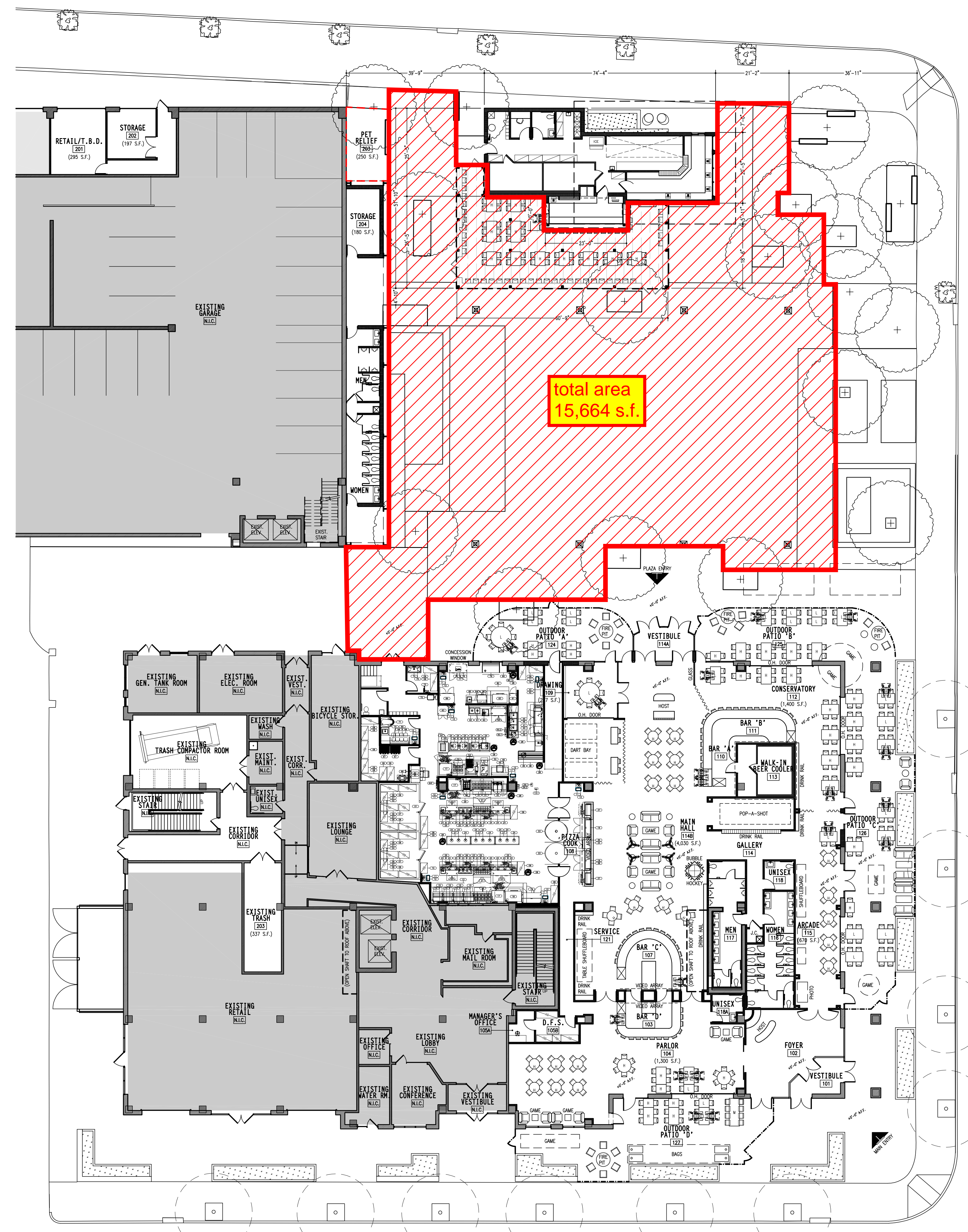
Drawing Title
**SITE
 LOCATION
 MAP**

Project No.
 250101501
 Date
 12/4/2019
 Scale
 1" = 2,000'
 Drawn By
 BLA

Figure
1



WEST GENERAL ROBINSON STREET



M A Z E R O S K I W A Y

NORTH SHORE DRIVE

TEST FIT 02
SCALE: 1/16"=1'-0"
AREAS NOT IN CONTRACT (N.I.C.)

PROJECT NUMBER: 12-001-000-000		ISSUE DATE: 14 AUGUST 23		ISSUE DESCRIPTION: ISSUED FOR OWNER REVIEW	
FILE NAME: 12-001-000-000		DRAWN BY: [REDACTED]		PROJECT: NORTH SHORE HOSPITALITY	
APPROVED: [REDACTED]		DATE: [REDACTED]		PROJECT LOCATION: NORTH SHORE PLAZA 220 NORTH SHORE DRIVE PITTSBURGH, PA 15212	
DRAWING TITLE: [REDACTED]		DRAWING SCALE: AS SHOWN		PROJECT ARCHITECT: +barker/ R. E. BARKER, P.E., ARCHITECT 100 W. CONRAD ST. SUITE 400, PITTSBURGH, PA 15212	
DATE: [REDACTED]		DATE: [REDACTED]		PROFESSIONAL SEAL: [REDACTED]	
SHEET NUMBER: A1		SHEET NUMBER: [REDACTED]		SHEET NUMBER: [REDACTED]	
© 2023, BARKER NESTOR, INC. ALL RIGHTS RESERVED.		© 2023, BARKER NESTOR, INC. ALL RIGHTS RESERVED.		© 2023, BARKER NESTOR, INC. ALL RIGHTS RESERVED.	

GENERAL NOTES

- ALL WORK DONE AND MATERIALS FURNISHED UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE PITTSBURGH WATER AND SEWER AUTHORITY (PWSA), AND THE CITY OF PITTSBURGH CURRENT GENERAL CONTRACT CONDITIONS STANDARD SPECIFICATIONS FOR THE MATERIALS AND CONSTRUCTION DATED NOVEMBER 1938, WITH SUPPLEMENTS THERETO AND REVISIONS THEREOF, USING CURRENT UPDATED PWSA SPECIFICATIONS AND STANDARDS FOR CONSTRUCTION UNLESS OTHERWISE NOTED.
- THE DEVELOPER/OWNER MUST FURNISH THE PWSA WITH A PERFORMANCE BOND (OR APPROVED EQUAL) AND A LABOR AND MATERIAL PAYMENT BOND, EACH IN AN AMOUNT EQUAL TO 100 PERCENT OF THE TOTAL PROJECT CONSTRUCTION COST AS DETERMINED BY PWSA. THE DEVELOPER/OWNER SHALL ALSO FURNISH THE PWSA WITH A MAINTENANCE BOND FOR THE WARRANTY OF ALL CONSTRUCTION FOR A PERIOD OF 18 MONTHS FROM THE DATE OF THE PWSA'S ACCEPTANCE OF THE COMPLETED WORK AND BOARD APPROVAL. THE MAINTENANCE BOND SHALL BE IN AN AMOUNT EQUAL TO 15 PERCENT OF THE COST OF THE WORK. THE PWSA ALONE SHALL BE NAMED AS AN OBLIGEE ON ALL BONDS.
- THE DEVELOPER/OWNER OR HIS CONTRACTOR SHALL OBTAIN ALL BUILDING PERMITS, PLUMBING PERMITS, CONSTRUCTION AND/OR STREET OPENING PERMITS REQUIRED BY THE CITY OF PITTSBURGH, COUNTY OF ALLEGHENY AND THE COMMONWEALTH OF PENNSYLVANIA AND/OR ANY LOCAL SURROUNDING MUNICIPALITIES AS NEEDED.
- ALL CONSTRUCTION MATERIALS MUST BE SUBMITTED IN A TIMELY MANNER FOR REVIEW AND APPROVED BY THE PWSA DEPARTMENT OF ENGINEERING AND CONSTRUCTION PRIOR TO THE START OF CONSTRUCTION. SUBMITTAL INFORMATION SHALL INCLUDE A LIST OF MATERIALS AND THEIR SOURCE OF SUPPLY AS WELL AS MANUFACTURER'S DESCRIPTIVE CATALOG DATA, DRAWINGS, CHARTS, TABLES, ETC. NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THE PWSA SPECIFICATION REQUIREMENTS.

LIST OF MATERIALS AND SOURCE THEREOF, TOGETHER WITH WORK SCHEDULE, MUST BE SUBMITTED AND APPROVED BY THE PWSA DEPARTMENT OF ENGINEERING AND CONSTRUCTION BEFORE CONSTRUCTION IS STARTED.

PRIOR TO THE START OF CONSTRUCTION, THE DEVELOPER/OWNER OR HIS CONTRACTOR SHALL SUBMIT A SCHEDULE OF THE WORK TO BE PERFORMED FOR REVIEW BY THE PWSA'S DEPARTMENT OF ENGINEERING AND CONSTRUCTION.
- CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS IN ACCORDANCE WITH THE PWSA ON UNIFORM SIZE SHEETS NO SMALLER THAN 24 INCHES BY 36 INCHES FOR REVIEW AND APPROVAL.
- THE PRECONSTRUCTION MEETING SHALL BE SET BY PWSA. AFTERWARDS, THE DEVELOPER/OWNER OR HIS CONTRACTOR SHALL NOTIFY THE PWSA DEPARTMENT OF ENGINEERING AND CONSTRUCTION NO LESS THAN 72 HOURS IN ADVANCE OF THE START OF CONSTRUCTION.
- THE DEVELOPER/OWNER'S CONTRACTOR SHALL NOT PERFORM ANY WORK DURING THE NIGHT, ON WEEKENDS, OR ON PWSA HOLIDAYS, UNLESS ORDERED TO DO SO BY THE PWSA'S DIRECTOR, OR AT THE REQUEST OF THE CONTRACTOR WITH THE APPROVAL OF THE DIRECTOR. WHEN THE CONTRACTOR IS GIVEN PERMISSION TO WORK DURING THESE PERIODS, HE SHALL REIMBURSE THE PWSA FOR ALL PWSA REPRESENTATIVE'S LABOR AND EXPENSES ASSOCIATED WITH INSPECTION OF THE WORK.
- UNLESS OTHERWISE DIRECTED USE PRECISE CITY BENCHMARK(S); SHOW ON PLANS PRECISE CITY B.M. NO(S), _____ AND ELEVATION(S) _____ (ALSO NOTE STANDARD CITY DESCRIPTION AND LOCATION(S)).
- SAW-CUT ALL EXISTING PUBLIC AND/OR PRIVATE SIDEWALK(S) AND STREET PAVEMENT(S) (AS DIRECTED).
- THE CONTRACTOR SHALL APPLY A CITY APPROVED SCALING DETERGENT TO ALL FINISHED CONCRETE PAVEMENT SURFACES AND SIDEWALKS IN ACCORDANCE WITH CURRENT CITY SPECIFICATIONS OR AS SHOWN ON THE CONTRACT PLANS (IF DIRECTED).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ALL CASTINGS, WATER BOXES, CATCH BASINS, STORM INLETS, AND MANHOLES AFTER CONSTRUCTION AND/OR PAVING IS COMPLETED INCLUDING ANY PRIVATE CASTING SURFACES (IF DIRECTED).
- MATERIAL REQUIRED TO REPLACE UNSUITABLE MATERIAL FOR STABILIZATION FOR SUB-GRADE(S) SHALL BE CITY/PWSA APPROVED BACKFILL MATERIAL. THE COMPOSITION AND METHOD OF COMPACTION SHALL CONFORM TO CURRENT CITY OF PITTSBURGH SPECIFICATIONS FOR SUB-BASE TREATMENT.
- ALL OLD MATERIAL REMOVED UNDER THIS CONTRACT AND NOT TO BE REUSED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE PROMPTLY REMOVED FROM THE SITE.
- THE CONTRACTOR SHALL DEWATER, BULKHEAD, AND BURY ALL EXISTING LINES THAT ARE ABANDONED IN PLACE. ABANDONED LINE(S) LARGER THAN 8" IN DIAMETER MUST BE FILLED WITH APPROVED FLOWABLE FILL.
- A COMPLETE AND ACCURATE PHOTOGRAPHIC ARCHIVAL HARD COPY FOUR MILL THICK DOUBLE MATTED MYLAR DRAWING (24 X 36) NOTING AS-BUILT RECORD INFORMATION MARKED IN RED INK, INCLUDING ALL COMPLETED AS BUILT RECORD INFORMATION AS TO LOCATION, ELEVATION, AND STATIONING WITH OFFSETS OF SEWER AND/OR WATER LINES, CATCH BASINS, WYE BRANCH CONNECTIONS, GATE VALVES, FITTINGS, HYDRANTS, STATIONS, GRADES, ETC. THIS REQUIRED INFORMATION MUST BE FURNISHED TO THE PWSA AT THE COMPLETION OF THE CONTRACT. THE CONTRACTOR SHALL SUBMIT ONE SET OF AS BUILT/RECORD DRAWINGS SHOWING THE PROPOSED PWSA FACILITIES TO BE DEDICATED AS CONSTRUCTED, INCLUDING ALL DEVIATIONS FROM BOTH THE APPROVED PROJECT CONTRACT DRAWINGS AND ANY RELATED APPROVED SHOP DRAWINGS. ALL AS-BUILT DRAWINGS SHALL BE PREPARED ON UNIFORM SIZE SHEETS AS NOTED ABOVE, NOT LESS THAN 24 INCHES BY 36 INCHES AND SUBMITTED WITHIN TWO WEEKS AFTER FINAL PWSA INSPECTION AND FINAL TESTING OF THE SYSTEM, PLUS INCLUDE AN APPROVED ELECTRONIC MEDIA COPY COMPATIBLE TO THE PWSA ELECTRONIC FILING SYSTEMS. SAID AS-BUILT INFORMATION MUST BE CERTIFIED BY AN ENGINEER LICENSED IN PENNSYLVANIA, OR IF DIRECTED MEASURED UP BY A SURVEYOR LICENSED IN THE COMMONWEALTH OF PENNSYLVANIA.

SEWER LINE NOTES

- BURIED MAIN LINE PIPE SEWER(S) IDENTIFICATION MARKER MATERIALS SHALL BE AN APPROVED ELECTRONICALLY LOCATABLE BRIGHTLY COLORED PLASTIC TAPE DISPLAYING THE PRINTED NOTATION "SEWER". TAPE SHALL BE LAID BETWEEN BACKFILLING LIFTS OVER THE PIPE, NOT LESS THAN TWO FEET ABOVE THE PIPE OR LESS THAN TWO FEET BELOW FINISHED GRADE SURFACE. IN NO EVENT SHALL THE TAPE BE MORE THAN FOUR FEET BELOW FINISHED SURFACE.
- ALL MANHOLES TO BE PWSA APPROVED PRE-CAST CONCRETE MANHOLES AS PER ASTM DESIGNATION C478 WITH POURED-IN-PLACE CEMENT CONCRETE BASES AND/OR PWSA APPROVED PRECAST BASES AS DETERMINED BY PWSA. THIS INCLUDES REINFORCED CONCRETE BOX MANHOLES AND/OR BRICK MANHOLES AS DIRECTED BY PWSA.
- SANITARY MANHOLES SHALL BE EXTERIOR COATED WITH PWSA APPROVED EMULSIFIED BITUMINOUS COATING AS PER ASTM DESIGNATION D1227 OR APPROVED EQUAL.
- ALL STANDARD HOUSE WYES TO BE MINIMUM 4 INCH DIAMETER FOR SANITARY SEWERS OR MINIMUM 6 INCH DIAMETER FOR STORM OR COMBINATION SEWERS UNLESS OTHERWISE NOTED.
- INSTALL THE PWSA CAST IRON MANHOLE CASTINGS AS FOLLOWS: FRAME NO. 26, COVER NO. 25V (UNLESS OTHERWISE NOTED).
- PWSA PIPE SEWER 15" DIAMETER AND SMALLER (UNLESS OTHERWISE DIRECTED) MAY BE POLYVINYL CHLORIDE (PVC), ASTM DESIGNATION 3034, SDR-26 OR FOR TYPE PS46 ASTM DESIGNATION D1784 (OR PWSA APPROVED EQUAL). THE PIPE AND FITTINGS SHALL HAVE INTEGRAL WALL BELL AND SPIGOT JOINTS WITH RUBBER RING JOINTS. THE PIPE STIFFNESS SHALL BE IN ACCORDANCE WITH ASTM DESIGNATION D2412; FLEXIBLE ELASTOMERIC SEALS: ASTM DESIGNATION D3212; SEAL MATERIAL: ASTM DESIGNATION F477. STANDARD INSTALLATION OF SAID SEWER PIPE SHALL BE IN COMPLIANCE WITH ASTM DESIGNATION D2321 AND/OR THE PWSA CURRENT SPECIFICATIONS.
- ALL VITRIFIED CLAY PIPE SEWER(S), (TYPICALLY USED FOR CONVEYING SANITARY OR COMBINATION FLOWS) INCLUDING WYE CONNECTIONS, SHALL BE EXTRA STRENGTH V.C. PIPE (ASTM DESIGNATION C700) COMPRESSION JOINTS FOR VITRIFIED CLAY, BELL AND SPIGOT SHALL CONFORM TO ASTM DESIGNATION C425.
- THE REINFORCED CONCRETE PIPE SEWER(S) SHALL CONFORM TO ASTM DESIGNATION C76 WITH THE FOLLOWING REQUIREMENTS:
 - ALL PWSA PIPE SEWERS SHALL BE MINIMUM CLASS IV STYLE, WALL "B".
 - THE PIPE SHALL HAVE A MAXIMUM ABSORPTION OF 5.5% DENSITY AND SHALL BE LESS THAN 155 POUNDS PER CUBIC FOOT USING LIMESTONE AGGREGATE AND TYPE II CEMENT (UNLESS OTHERWISE DIRECTED).
 - PIPE SHALL BE FURNISHED IN MINIMUM 8-FOOT LENGTHS AND MARKED WITH MANUFACTURED DATE AND PIPE CLASS.
 - FOR SANITARY AND COMBINED SEWERS, THE CONTRACTOR (IF DIRECTED) WILL SUBSTITUTE TYPE II CEMENT WITH LIMESTONE AGGREGATE IN PLACE OF COAL TAR EPOXY COATING OF INTERIOR SURFACE OF PIPE.
 - ALL SPECIAL RADIUS R. C. PIPE MUST BE MARKED AT THE TOP EXTERIOR (CROWN) OF EACH SECTION TO ENSURE PROPER ALIGNMENT.
 - JOINT ASSEMBLIES SHALL BE SO FORMED AND ACCURATELY MANUFACTURED THAT WHEN THE PIPES ARE DRAWN TOGETHER THE PIPE SHALL FORM A CONTINUOUS WATERTIGHT CONDUIT WITH A SMOOTH AND UNIFORM INTERIOR SURFACE. THE RUBBER GASKET SHALL BE THE SOLE ELEMENT OF THE JOINT DEPENDENT UPON TO PROVIDE A WATERTIGHT SEAL CONFORMING TO ASTM DESIGNATION C443 AND MANUFACTURERS RECOMMENDATION FOR INSTALLATION.
 - PIPE WILL BE SUBJECT TO REJECTION BECAUSE OF FAILURE TO CONFORM TO ANY OF THE ABOVE SPECIFICATION REQUIREMENTS.
- DUCTILE IRON PIPE SEWER AND MECHANICAL JOINT DUCTILE IRON FITTINGS: SHALL BE PUSH-ON JOINT DUCTILE IRON PIPE WITH MECHANICAL JOINT DUCTILE IRON FITTINGS. PIPE AND FITTINGS TO BE USED UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH FOLLOWING SPECIFICATIONS:
 - CENTRIFUGALLY CAST - DUCTILE IRON PIPE LINED WITH A PWSA APPROVED POLYMER LINING (UNLESS OTHERWISE DIRECTED): AWWA/ANSI - C151/A21.51.
 - INTERIOR LINING PWSA APPROVED CERAMIC EPOXY COATING CONSISTING OF AN AMINECURED NOVOLAC EPOXY CONTAINING A MINIMUM OF 20% CERAMIC QUARTZ PIGMENT BY VOLUME OR CEMENT MORTAR LINING FOR DUCTILE IRON AND GRAY IRON PIPE AND FITTINGS AS NOTED FOR WATER: AWWA/ANSI - C104/A21.4.
 - USE MECHANICAL JOINT DUCTILE IRON FITTINGS: AWWA/ANSI - C110/A21.10. (AS DIRECTED)
 - RUBBER GASKET JOINTS FOR DUCTILE IRON AND GRAY IRON PRESSURE SEWER PIPE AND RELATED FITTINGS: AS PER AWWA/ANSI - C111/A21.11. THICKNESS DESIGN FOR DUCTILE IRON PIPE AWWA/ANSI - C150/A21.50.
 - ALL DUCTILE IRON PIPE SHALL BE MINIMUM CLASS 52.
 - DUCTILE IRON TRANSITION COUPLINGS AND REPAIR COUPLINGS.
 - MATERIAL DESCRIPTION - COUPLINGS FURNISHED UNDER THIS CONTRACT SHALL BE AT LEAST EQUAL TO OR EXCEED THE FOLLOWING AND SHALL CONFORM WITH THE REQUIREMENTS HEREAFTER GIVEN
 - CENTER RING: DUCTILE CAST IRON MEETING OR EXCEEDING THE LATEST REVISION OF ASTM A-536.
 - GASKETS: NATURAL OR SYNTHETIC RUBBER COMPOUNDED FOR POTABLE WATER SERVICE.
 - END RINGS: DUCTILE CAST IRON MEETING OR EXCEEDING THE LATEST REVISION OF ASTM DESIGNATION A-536.
 - BOLTS AND NUTS: HIGH STRENGTH STEEL TRACK HEAD, NATURAL COURSE ROLL THREAD WITH HEAVY HEX NUTS ELECTRO- GALVANIZED WITH DI-CHROMATE SEAL.
- INFILTRATION AND/OR EXFILTRATION TEST SHALL BE CONDUCTED BY THE CONTRACTOR UNDER INSPECTION OF THE PWSA, IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE NATIONAL CLAY PIPE INSTITUTE. ANY SEWER FAILING TO MEET THESE REQUIREMENTS SHALL BE PROPERLY CORRECTED AND RECONSTRUCTED. INFILTRATION AND EXFILTRATION AMOUNTS SHALL BE LIMITED TO 200 GALLONS PER INCH DIAMETER OF PIPE PER MILE PER DAY. (0.001 GALLON/INCH/DIAMETER/HOUR/FOOT).
- ALL NEWLY CONSTRUCTED PUBLIC SEWERS ON THE PROJECT MUST BE TELEVIEWED BY THE CONTRACTOR AS DIRECTED AND A VIDEO COPY COMPLETE WITH DATA SHEETS COMPATIBLE WITH PWSA RECORD SYSTEMS AND APPROVED BY PWSA BEFORE FINAL PROJECT ACCEPTANCE. A SEVENTY TWO (72) HOUR ADVANCE NOTICE SHALL BE GIVEN TO THE PWSA REPRESENTATIVE WHO WILL WITNESS SAID VIDEO INSPECTION AND THE AREA MUST BE ACCESSIBLE FOR TV EQUIPMENT INCLUDING VEHICLES. IN ORDER FOR INSPECTION TO OCCUR, ALL EXISTING AND PROPOSED MANHOLES TO REMAIN SHALL BE CONSTRUCTED AND BROUGHT UP TO THE TOP OF FINISHED GRADE.
- CONTRACTOR WILL BE DIRECTED TO CONDUCT PWSA APPROVED AIR VACUUM TESTING ON ALL SEWERS AND MANHOLES AS PER CURRENT PWSA SPECIFICATIONS AS PER ASTM DESIGNATION C828.
- CONTRACTOR WILL BE DIRECTED TO PERFORM DEFLECTION TESTING ON ALL FLEXIBLE PLASTIC PIPE SEWERS OR AS DEEMED NECESSARY BY PWSA FOR OTHER MATERIALS. THE MANDREL TESTING SHALL BE PERFORMED IN THE PRESENCE OF A PWSA INSPECTOR USING A DEFLECTOMETER, CALIBRATED TELEVISION, OR PROPERLY SIZED "GO, NO-GO" MANDRELS. MAXIMUM DEFLECTION ACCEPTED BY PWSA SHALL BE 5 PERCENT OF PIPE DIAMETER.

WATER LINE NOTES

- BURIED MAINLINE PIPE IDENTIFICATION MARKERS SHALL BE APPROVED ELECTRONICALLY LOCATABLE BRIGHTLY COLORED PLASTIC TAPE DISPLAYING THE PRINTED NOTATION "WATER". TAPE SHALL BE LAID BETWEEN BACKFILLING LIFTS OVER THE PIPE, NOT LESS THAN TWO FEET ABOVE THE PIPE OR LESS THAN TWO FEET BELOW FINISHED GROUND SURFACE. IN NO EVENT SHALL THE TAPE BE MORE THAN FOUR FEET BELOW FINISHED SURFACE.
- GATE VALVE - AFFIDAVIT OF COMPLIANCE: THE CONTRACTOR SHALL OBTAIN FROM THE MANUFACTURER OF THE VALVES AN AFFIDAVIT STATING THAT THE VALVES AND ALL THE MATERIALS USED IN ITS CONSTRUCTION CONFORM TO THE APPLICABLE REQUIREMENTS OF THE PWSA AND AWWA CURRENT STANDARD AND SUPPLEMENTARY SPECIFICATIONS AND THAT ALL TEST SPECIFIED THEREIN HAVE BEEN PERFORMED AND MET.
- ALL NEW PWSA WATER MAINS SHALL BE WRAPPED WITH APPROVED POLYETHYLENE WRAP. POLYETHYLENE WRAP USING VIRGIN POLYETHYLENE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE ANSI/ASTM DESIGNATION D1248. THE MINIMUM NOMINAL THICKNESS SHALL BE 8 MILS THICK.
- CURB BOXES - ROUND CURB BOXES SHALL BE PWSA APPROVED OF THE M.E.G. TYPE CONSTRUCTED OF CAST IRON. STANDARD GATE BOX LID SHALL HAVE TWO NOTCH OPENINGS WITH THE WORD "WATER" STAMPED OR CAST INTO IT. LID DIAMETER TO MATCH BOX. GATE BOX EXTENSIONS ARE NOT TO BE USED FOR NEW CONSTRUCTION. A MAXIMUM OF THREE EXTENSION RINGS CAN BE USED PER GATE BOX.
- ALL SALVAGEABLE EXISTING WATER LINE MATERIALS AND APPURTENANCES (I.E. CASTINGS, PIPE, VALVES, FIRE HYDRANTS, METERS, ETC.) REMOVED DURING THE COURSE OF CONSTRUCTION BY THE CONTRACTOR SHALL BE REMOVED, UNDAMAGED, AND DELIVERED TO THE PWSA BRILLIANT YARD. ALL OTHER DAMAGED AND/OR UNSALVAGEABLE WATER LINE MATERIALS AND RELATED APPURTENANCES SHALL BE DISPOSED OF BY THE CONTRACTOR AT THE DISCRETION OF AND TO THE SATISFACTION OF THE PWSA.
- ALL PIPE VALVES AND FITTINGS SHALL BE MECHANICAL JOINT AND SHALL BE CONSTRUCTED SO THAT THE DEFLECTION PER JOINT DOES NOT EXCEED 85% OF MAXIMUM PERMISSIBLE.
- ALL FITTINGS AND/OR BENDS SHALL HAVE CONCRETE THRUST BLOCKING PLACED IN ACCORDANCE WITH THE PWSA SPECIFICATIONS/STANDARDS. PROVIDE DUCTILE IRON RETAINING GLANDS ON ALL BENDS GREATER THAN 10 DEGREES INCLUDING THE REQUIRED THRUST BLOCKING.
- THRUST BLOCK CONCRETE SHALL BE CITY OF PITTSBURGH CLASS "P" 4000# CEMENT CONCRETE AS PER THE CITY OF PITTSBURGH SPECIFICATIONS. A MINIMUM OF ONE FOOT OF COMPACTED BACKFILL SHALL BE PLACED ABOVE ALL THRUST BLOCKING PRIOR TO ACTIVATING THE WATER LINES.
 - CENTRIFUGALLY CAST - DUCTILE IRON PIPE: AWWA/ANSI - C151/A21.51.
 - CEMENT MORTAR LINING FOR DUCTILE IRON AND GRAY IRON PIPE AND FITTINGS FOR WATERLINES: AS PER AWWA/ANSI - C104/A21.4.
 - MECHANICAL JOINT DUCTILE IRON FITTINGS: AWWA/ANSI - C110/A21.10.
 - RUBBER GASKET JOINTS FOR DUCTILE IRON AND GRAY IRON PRESSURE PIPE AND FITTINGS:
 - AWWA/ANSI - C111/A21.11. THICKNESS DESIGN FOR DUCTILE IRON PIPE AWWA/ANSI - C150/A21.50.
 - ALL DUCTILE IRON PIPE SHALL BE MINIMUM CLASS 52.
 - DUCTILE IRON TRANSITION COUPLINGS AND REPAIR COUPLINGS
 - MATERIAL DESCRIPTION - COUPLINGS FURNISHED UNDER THIS CONTRACT SHALL BE AT LEAST EQUAL TO OR EXCEED THE FOLLOWING AND SHALL CONFORM WITH THE REQUIREMENTS HEREAFTER GIVEN
 - CENTER RING: DUCTILE CAST IRON MEETING OR EXCEEDING THE LATEST REVISION OF ASTM DESIGNATION A-536.
 - GASKETS: NATURAL OR SYNTHETIC RUBBER COMPOUNDED FOR POTABLE WATER SERVICE.
 - END RINGS: DUCTILE CAST IRON MEETING OR EXCEEDING THE LATEST REVISION OF ASTM DESIGNATION A-536.
 - BOLTS AND NUTS: HIGH STRENGTH STEEL TRACK HEAD, NATURAL COURSE ROLL THREAD WITH HEAVY HEX NUTS ELECTRO- GALVANIZED WITH DI-CHROMATE SEAL.
 - GLANDS FOR ASSEMBLING MECHANICAL JOINT FITTINGS SHALL BE RESTRAINING GLANDS, CONSISTING OF MULTIPLE GRIPPING WEDGES INCORPORATED INTO A FOLLOWER GLAND MEETING THE APPLICABLE REQUIREMENTS OF AWWA/ANSI C-110/A21.10. THE DEVICES SHALL HAVE A WORKING PRESSURE RATING OF 350 PSI FOR 3-16 INCH AND 250 PSI FOR 18-48 INCH. RATINGS ARE FOR WATER PRESSURE AND MUST INCLUDE A MINIMUM SAFETY FACTOR OF 2 TO 1 IN ALL SIZES. GLAND BODY, WEDGES AND WEDGE ADJUSTING COMPONENTS SHALL BE CAST FROM GRADE 65-45-12 DUCTILE IRON MATERIAL IN ACCORDANCE WITH ASTM DESIGNATION A536. DUCTILE IRON GRIPPING WEDGES SHALL BE HEAT TREATED WITHIN A RANGE OF 370 TO 470 BHN. MECHANICAL JOINT RESTRAINT FOR DUCTILE IRON PIPE SHALL BE MEGALUG SERIES 1100 AS MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL.
- THE PWSA MUST BE NOTIFIED A MINIMUM OF 72 HOURS IN ADVANCE OF THE TIME WHEN THE CONTRACTOR PROPOSES TO CONNECT THE PROPOSED WATERLINES TO THE EXISTING WATER MAINS SO THAT THE PWSA OPERATIONS DIVISION MAY ARRANGE FOR THE OPERATION OF THE NECESSARY VALVE SHUTS. ONLY THE PWSA PERSONNEL MAY OPERATE PUBLIC PWSA VALVES.
- ALL NEW WATER AND FIRE SERVICE MAINS SHALL BE TESTED HYDRAULICALLY AT NOT LESS THAN 200 PSI PRESSURE FOR NOT LESS THAN TWO HOURS, OR 50 PSI IN EXCESS OF THE MAXIMUM STATIC PRESSURE WHEN THE MAXIMUM STATIC PRESSURE IS IN EXCESS OF 150 PSI.
- ALL PROPOSED CONNECTIONS TO EXISTING WATER MAINS SHALL BE CONDUCTED DURING THE TIME OF LEAST DEMAND FOR WATER, UNLESS OTHERWISE DIRECTED.
- STERILIZATION: FOLLOWING THE TESTING OF ANY POTABLE WATER MAINS, THE MAIN SHALL BE THOROUGHLY FLUSHED AND STERILIZED.
- STERILIZATION SHALL BE IN ACCORDANCE WITH AWWA C-651-86 (REVISION OF AWWA C-601-81), AWWA STANDARD FOR DISINFECTING WATER MAINS.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE AGAINST LEAKAGE OF THE STERILIZING SOLUTION INTO THE EXISTING PUBLIC SYSTEM AND FOR PROPERLY DISPOSING OF THE STERILIZING SOLUTION.

THE PITTSBURGH WATER & SEWER AUTHORITY APPROVAL BLOCK
 To be completed by the Applicant:
 (Check all that apply)

NEW WATER CONNECTION(S)
 NEW SEWER CONNECTION(S)
 REUSE EXISTING WATER CONNECTION(S)
 REUSE EXISTING SEWER CONNECTION(S)
 TERMINATE EXISTING WATER CONNECTION(S)
 TERMINATE EXISTING SEWER CONNECTION(S)
 PRIVATE CONSTRUCTION OF PUBLIC FACILITIES

To be completed by the PWSA:
 (Required for ALL approvals)

REVIEWER, DEPT. OF ENGINEERING AND CONSTRUCTION

SENIOR PROJECT MANAGER,
 DEPT. OF ENGINEERING AND CONSTRUCTION
[Signature]
 Director of Operations

DIRECTOR OF OPERATIONS
 (Required for "Private Construction of Public Facilities" ONLY)

DIRECTOR OF ENGINEERING AND CONSTRUCTION
 DEV-155-0822

PWSA PROJECT NUMBER

TAP C RECORD NUMBER C2027

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

LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

NORTH SHORE LOT 10
 218 NORTH SHORE DRIVE
 PITTSBURGH, PA 15212

SCALE: SHEET ACCESSION No. _____

DATE: _____ OF _____ CASE No. _____

Date	Description	No.
09/27/22	PWSA REVISIONS	1
	REVISIONS	

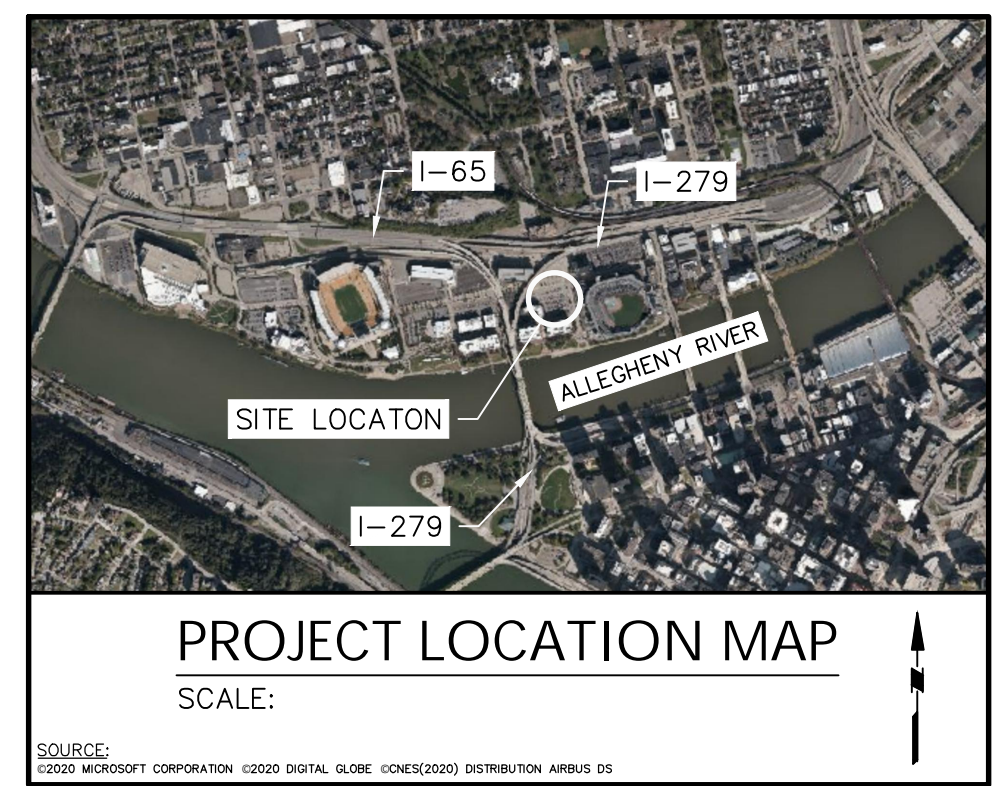
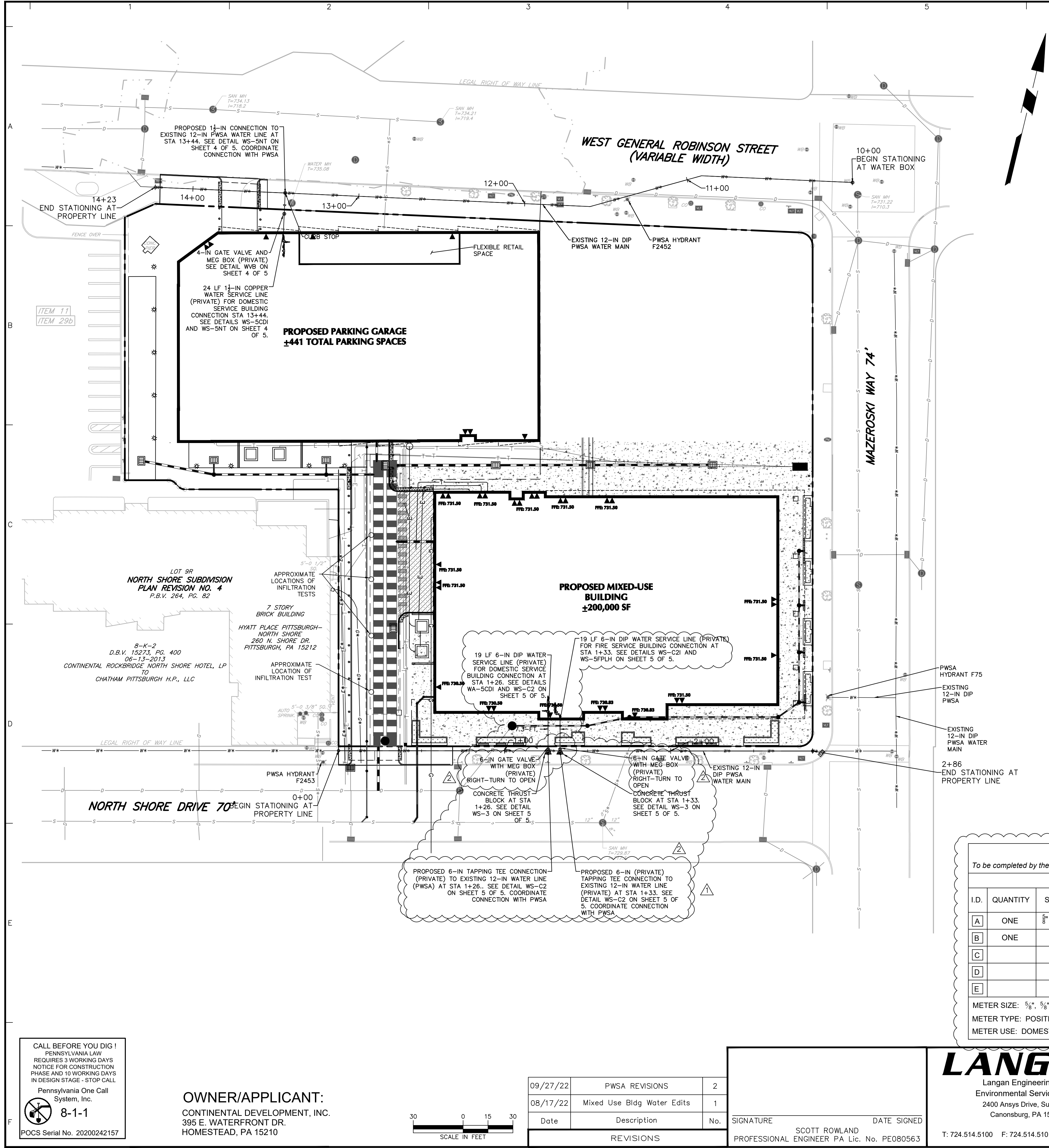
SIGNATURE DATE SIGNED
 SCOTT ROWLAND
 PROFESSIONAL ENGINEER PA Lic. No. PE080563

LANGAN
 Langan Engineering and Environmental Services, Inc.
 2400 Ansys Drive, Suite 403
 Canonsburg, PA 15317
 T: 724.514.5100 F: 724.514.5101 www.langan.com

Project
NORTH SHORE LOT 10
 CITY OF PITTSBURGH
 ALLEGHENY COUNTY PENNSYLVANIA

Drawing Title
INFORMATION COVER

Project No.
250101501
 Date
05/11/2020
 Drawn By
NRK
 Checked By
SML
 Drawing No.
GI001
 Sheet 1 of 5



PEAK DAILY SANITARY FLOW DEMANDS	
To be completed by the Applicant:	
PROJECT FLOW, GPD	30,810
EXISTING FLOW, GPD	0
NET FLOW, GPD	30,810
DEP SFPM APPROVAL DATE (if required)	NOT REQUIRED

	EXISTING	PROPOSED
	PROPERTY LINE	---
SANITARY SEWER PER PLAN	---	---
SANITARY CLEANOUT	●	●
SANITARY MANHOLE	○	○
STORM SEWER	---	---
CATCH BASIN/INLET	■	■
STORM MANHOLE	●	●
WATER LINE	---	---
FIRE LINE	---	---
WATER HYDRANT	●	●
WATER VALVE	○	○
WATER BOX	■	■
UTILITY POLE	●	●

NOTE: THE ASTERISK "*" INDICATES UTILITY LOCATIONS THAT WERE DETERMINED USING PLAN DRAWING AND WERE NOT FIELD LOCATED.

GENERAL NOTES

- 13(*) SPRINKLER SYSTEM TO REQUIRE PL&I INSPECTION AND APPROVAL

HYDRANT FLOW TEST RESULTS	
To be completed by the Applicant:	
DATE OF TEST	APRIL 8, 2022
HYDRANT PERMIT NUMBER	184-0322
PERFORMED BY	LANGAN & PWSA
FLOW HYDRANT	
HYDRANT NUMBER	F2487
LOCATION	MAZEROSKI WAY
FLOW OBSERVED, GPM	1702
PRESSURE HYDRANT	
HYDRANT NUMBER	F75
LOCATION	MAZEROSKI WAY
STATIC PRESSURE, PSI	96
RESIDUAL PRESSURE, PSI	90
CALCULATIONS	
PROJECTED FLOW AT 20 PSI, GPM	6704

THE PITTSBURGH WATER & SEWER AUTHORITY APPROVAL BLOCK	
To be completed by the Applicant:	
(Check all that apply)	
<input type="checkbox"/>	NEW WATER CONNECTION(S)
<input type="checkbox"/>	NEW SEWER CONNECTION(S)
<input type="checkbox"/>	REUSE EXISTING WATER CONNECTION(S)
<input type="checkbox"/>	REUSE EXISTING SEWER CONNECTION(S)
<input type="checkbox"/>	TERMINATE EXISTING WATER CONNECTION(S)
<input type="checkbox"/>	TERMINATE EXISTING SEWER CONNECTION(S)
<input type="checkbox"/>	PRIVATE CONSTRUCTION OF PUBLIC FACILITIES

To be completed by the PWSA:	
(Required for ALL approvals)	
REVIEWER, DEPT. OF ENGINEERING AND CONSTRUCTION	
SENIOR PROJECT MANAGER, DEPT. OF ENGINEERING AND CONSTRUCTION	
DIRECTOR OF OPERATIONS (Required for "Private Construction of Public Facilities" ONLY)	
DIRECTOR OF ENGINEERING AND CONSTRUCTION	
PWSA PROJECT NUMBER	DEV-155-0822
TAP C RECORD NUMBER	C2027

LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

NORTH SHORE LOT 10

218 NORTH SHORE DRIVE
PITTSBURGH, PA 15212

SCALE: SHEET ACCESSION No. _____

DATE: _____ OF _____ CASE No. _____

PEAK OPERATING WATER DEMANDS							
To be completed by the Applicant:							
METER INFORMATION				DOMESTIC SYSTEM		FIRE SYSTEM	
I.D.	QUANTITY	SIZE	TYPE	USE	FLOW, GPM	PRESSURE, PSI	PRESSURE, PSI
A	ONE	5/8" X 3/4"	POSITIVE DISPLACEMENT	FIRE			550 / 77
B	ONE	4"	COMPOUND	DOMESTIC	510	80	
C							
D							
E							

METER SIZE: 5/8", 3/4", 1", 1 1/2", 2", 3", 4", 6", 8", 10", 12", 16"

METER TYPE: POSITIVE DISPLACEMENT, COMPOUND, ELECTROMAGNETIC, ULTRASONIC, TURBINE

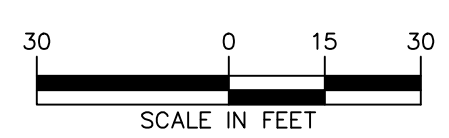
METER USE: DOMESTIC, FIRE, COMBINATION

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

Pennsylvania One Call
System, Inc.
8-1-1

POCS Serial No. 20200242157

OWNER/APPLICANT:
CONTINENTAL DEVELOPMENT, INC.
395 E. WATERFRONT DR.
HOMESTEAD, PA 15210



Date	Description	No.
09/27/22	PWSA REVISIONS	2
08/17/22	Mixed Use Bldg Water Edits	1

SIGNATURE: SCOTT ROWLAND
DATE SIGNED: _____
PROFESSIONAL ENGINEER PA Lic. No. PE080563

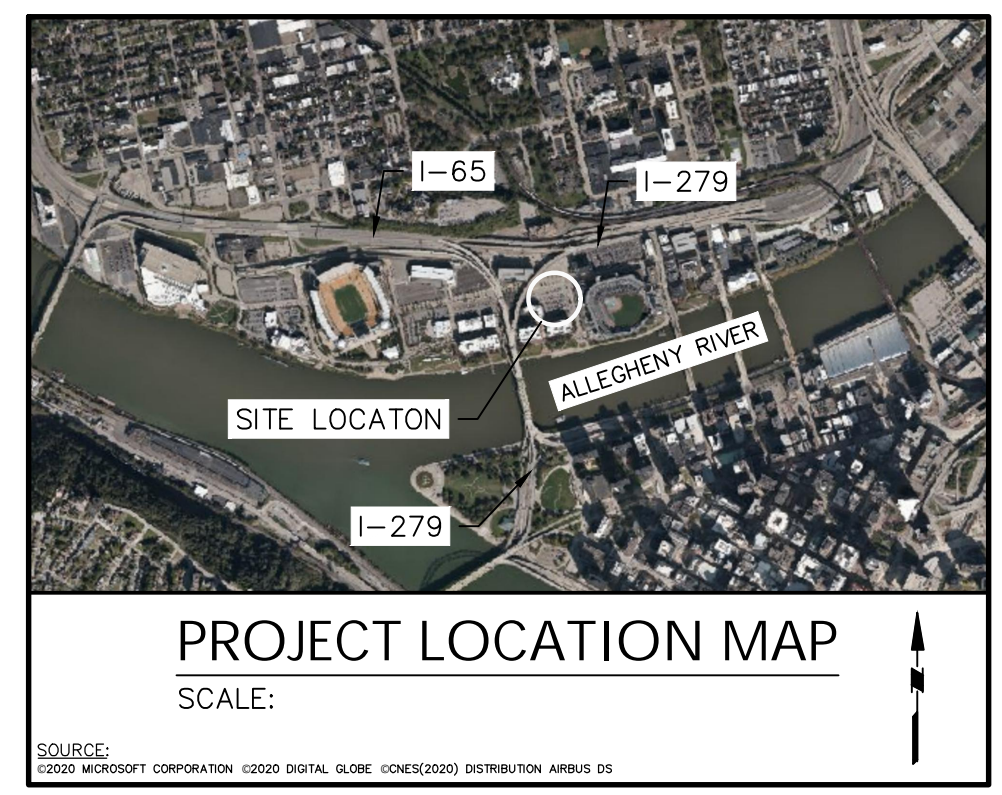
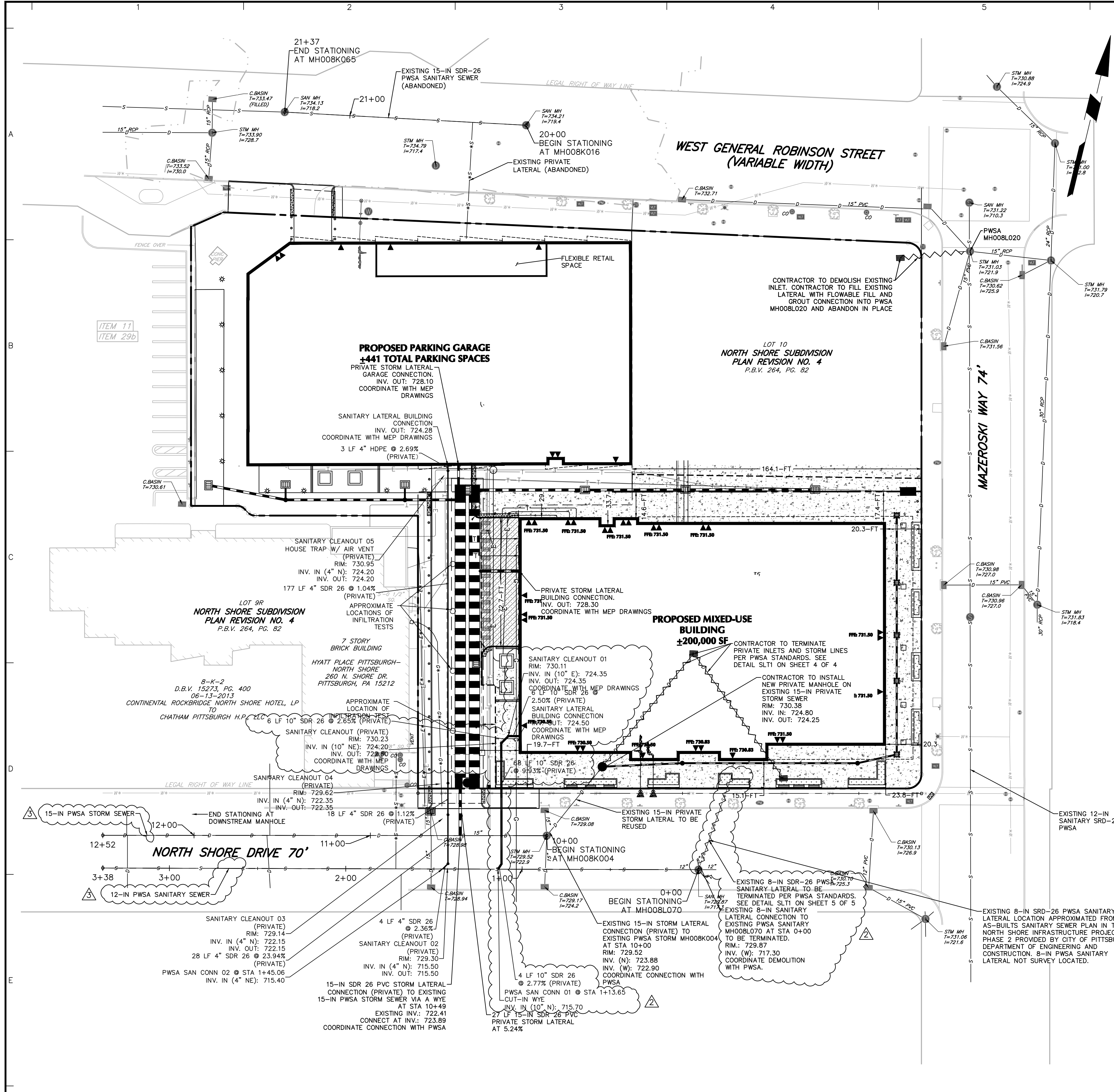
LANGAN
Langan Engineering and Environmental Services, Inc.
2400 Ansys Drive, Suite 403
Canonsburg, PA 15317

T: 724.514.5100 F: 724.514.5101 www.langan.com

Project: **NORTH SHORE LOT 10**
CITY OF PITTSBURGH
ALLEGHENY COUNTY

Drawing Title: **WATER TAP-IN PLAN**

Project No.	Drawing No.
250101501	GI101
Date: 05/11/2020	Sheet 2 of 5
Drawn By: NRK	
Checked By: SML	



PEAK DAILY SANITARY FLOW DEMANDS	
To be completed by the Applicant:	
PROJECT FLOW, GPD	30,810
EXISTING FLOW, GPD	0
NET FLOW, GPD	30,810
DEP SFPM APPROVAL DATE (if required)	NOT REQUIRED

	LEGEND	
	EXISTING	PROPOSED
PROPERTY LINE	—	—
SANITARY SEWER PER PLAN	—S—S—S—	—S—S—S—
SANITARY CLEANOUT	●	●
SANITARY MANHOLE	○	○
STORM SEWER	—D—D—D—	—D—D—D—
CATCH BASIN/INLET	■	■
STORM MANHOLE	●	●
WATER LINE	—W—W—W—	—W—W—W—
FIRE LINE	—F—F—F—	—F—F—F—
WATER HYDRANT	⊕	⊕
WATER VALVE	⊙	⊙
WATER BOX	⊕	⊕
UTILITY POLE	⊙	⊙
STORM LINE TERMINATION/FILL	—	—

NOTE: THE ASTERISK * INDICATES UTILITY LOCATIONS THAT WERE DETERMINED USING PLAN DRAWING AND WERE NOT FIELD LOCATED.

THE PITTSBURGH WATER & SEWER AUTHORITY APPROVAL BLOCK	
To be completed by the Applicant:	
(Check all that apply)	
<input type="checkbox"/>	NEW WATER CONNECTION(S)
<input type="checkbox"/>	NEW SEWER CONNECTION(S)
<input type="checkbox"/>	REUSE EXISTING WATER CONNECTION(S)
<input type="checkbox"/>	REUSE EXISTING SEWER CONNECTION(S)
<input type="checkbox"/>	TERMINATE EXISTING WATER CONNECTION(S)
<input type="checkbox"/>	TERMINATE EXISTING SEWER CONNECTION(S)
<input type="checkbox"/>	PRIVATE CONSTRUCTION OF PUBLIC FACILITIES

To be completed by the PWSA:
(Required for ALL approvals)

REVIEWER, DEPT. OF ENGINEERING AND CONSTRUCTION

SENIOR PROJECT MANAGER,
DEPT. OF ENGINEERING AND CONSTRUCTION

DIRECTOR OF OPERATIONS
(Required for "Private Construction of Public Facilities" ONLY)

DIRECTOR OF ENGINEERING AND CONSTRUCTION

PWSA PROJECT NUMBER **DEV-155-0822**

TAP C RECORD NUMBER **C2027**

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

LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

NORTH SHORE LOT 10

218 NORTH SHORE DRIVE

PITTSBURGH, PA 15212

SCALE: SHEET ACCESSION No. _____

DATE: _____ OF _____ CASE No. _____

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

Pennsylvania One Call
System, Inc.

8-1-1

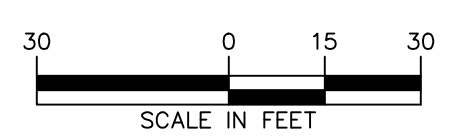
POCS Serial No. 20200242157

OWNER/APPLICANT:

CONTINENTAL DEVELOPMENT, INC.

395 E. WATERFRONT DR.

HOMESTEAD, PA 15210



Date	Description	No.
09/27/22	PWSA REVISIONS	3
08/17/22	Mixed Use Bldg Sanitary Edits	2
04/20/21	Parking Garage Sanitary Edits	1

SIGNATURE _____ DATE SIGNED _____

SCOTT ROWLAND
PROFESSIONAL ENGINEER PA Lic. No. PE080563

LANGAN

Langan Engineering and Environmental Services, Inc.

2400 Ansys Drive, Suite 403
Canonsburg, PA 15317

T: 724.514.5100 F: 724.514.5101 www.langan.com

Project
NORTH SHORE LOT 10

CITY OF PITTSBURGH
ALLEGHENY COUNTY PENNSYLVANIA

Drawing Title
SEWER TAP-IN & TERMINATION PLAN

Project No. **250101501**

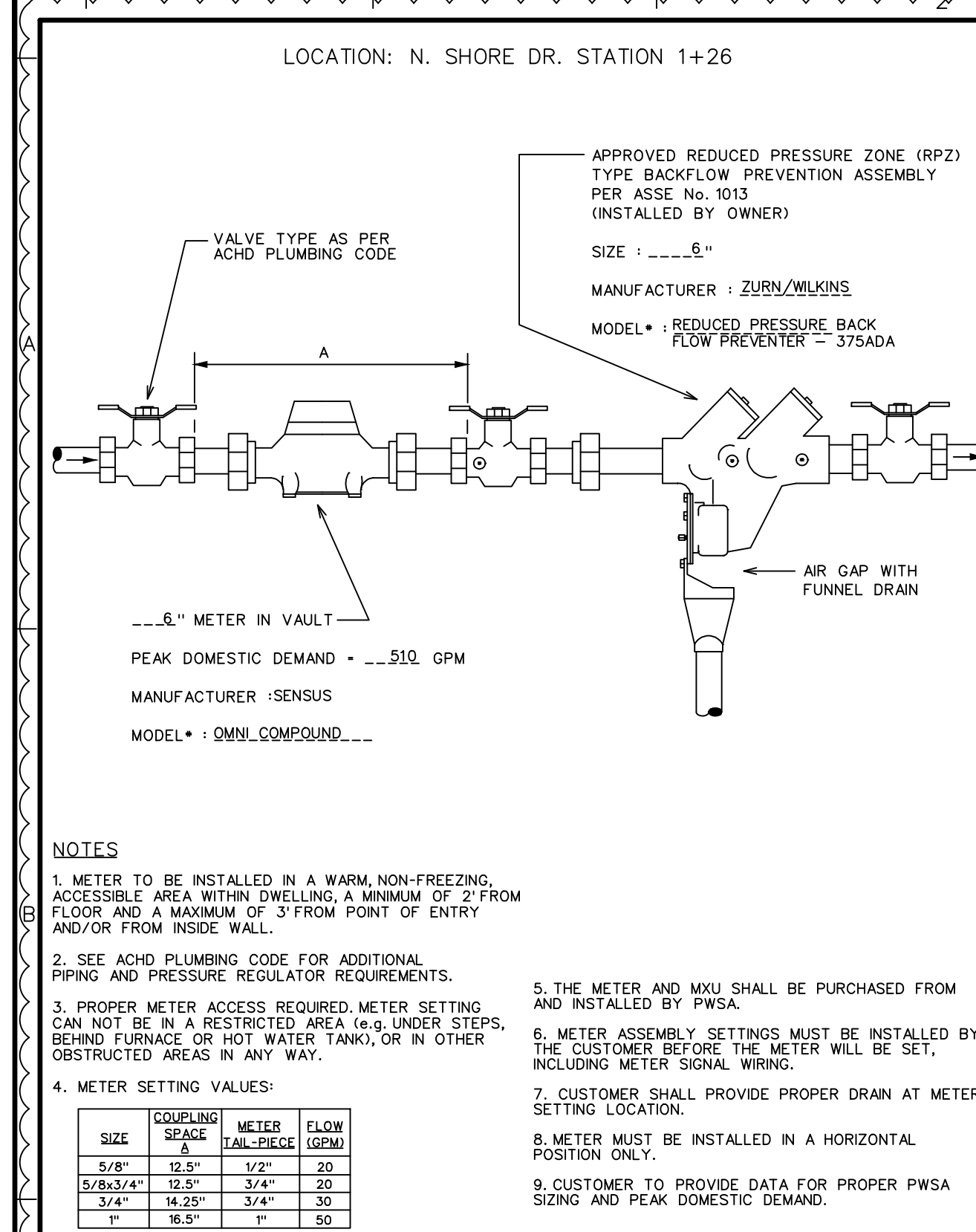
Date **05/11/2020**

Drawn By **NRK**

Checked By **SML**

Drawing No. **G1102**

Sheet **3** of **5**



NOTES:

- METER TO BE INSTALLED IN A WARM, NON-FREEZING, ACCESSIBLE AREA WITHIN DWELLING, A MINIMUM OF 2' FROM FLOOR AND A MAXIMUM OF 3' FROM POINT OF ENTRY AND/OR FROM INSIDE WALL.
- SEE ACHD PLUMBING CODE FOR ADDITIONAL PIPING AND PRESSURE REGULATOR REQUIREMENTS.
- PROPER METER ACCESS REQUIRED. METER SETTING CAN NOT BE IN A RESTRICTED AREA (e.g. UNDER STEPS, BEHIND FURNACE OR HOT WATER TANK), OR IN OTHER OBSTRUCTED AREAS IN ANY WAY.
- METER SETTING VALUES:

SIZE	COURING SPACE	METER	FLOW RATE (GPM)
5/8"	12"	1/2"	20
5/8x3/4"	12.5"	3/4"	20
3/4"	14.25"	3/4"	30
1"	16.5"	1"	50

5. THE METER AND MUI SHALL BE PURCHASED FROM AND INSTALLED BY PWSA.

6. METER ASSEMBLY SETTINGS MUST BE INSTALLED BY THE CUSTOMER BEFORE THE METER WILL BE SET, INCLUDING METER SIGNAL WIRING.

7. CUSTOMER SHALL PROVIDE PROPER DRAIN AT METER SETTING LOCATION.

8. METER MUST BE INSTALLED IN A HORIZONTAL POSITION ONLY.

9. CUSTOMER TO PROVIDE DATA FOR PROPER PWSA SIZING AND PEAK DOMESTIC DEMAND.

REVISIONS

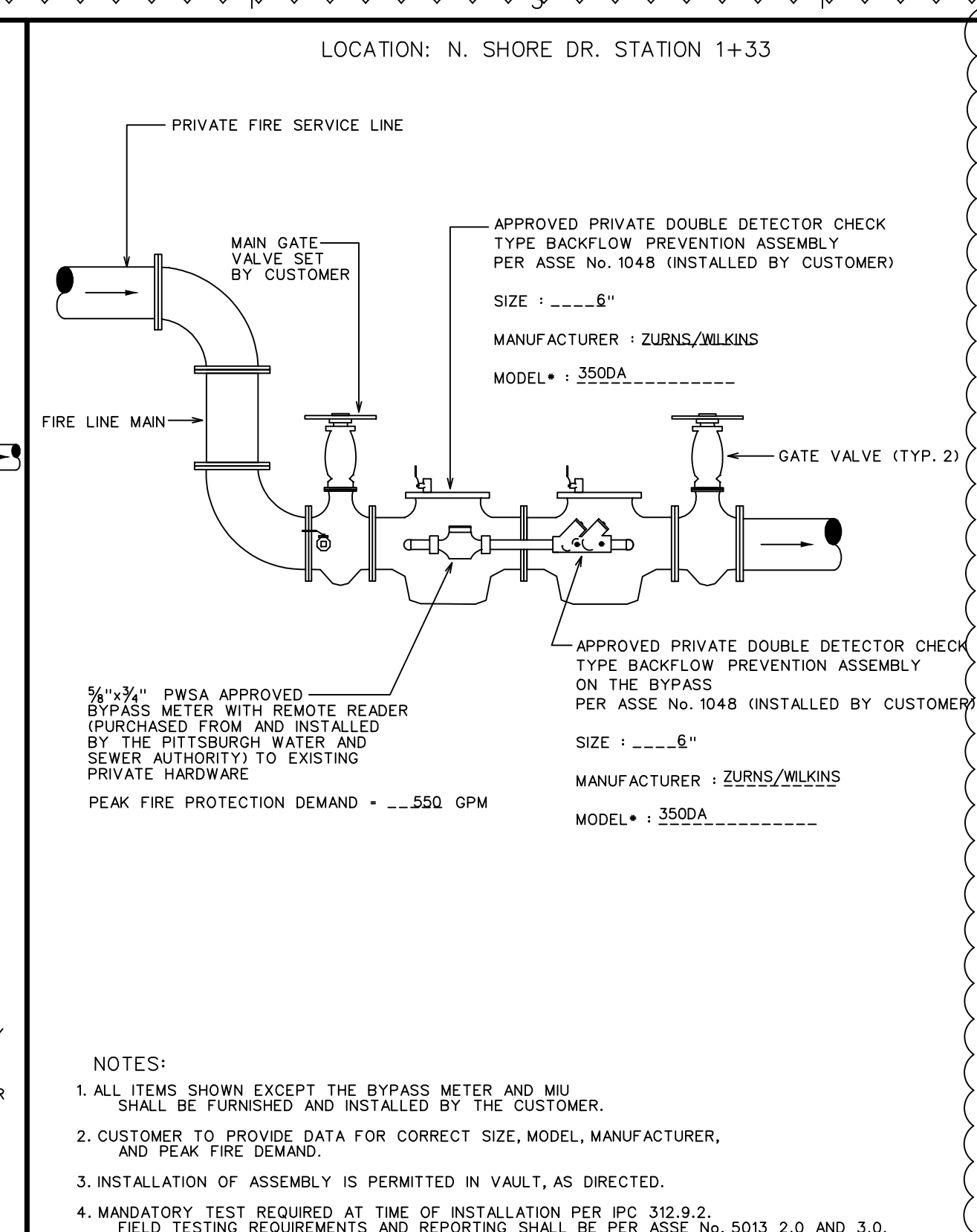
1. MSR 4-23-01	5. LRC 1-31-14
2. DWP 9-15-05	
3. MAC 9-13-07	
4. MAC 4-16-09	

Approved by: Pittsburgh Water & Sewer Authority

Scale: N.T.S.

Supplemental Detail Drawing: **WS-5CDI**

WS-5CDI - DOMESTIC SERVICE INTERNAL METER SETTING COMMERCIAL AND MULTI-FAMILY



REVISIONS

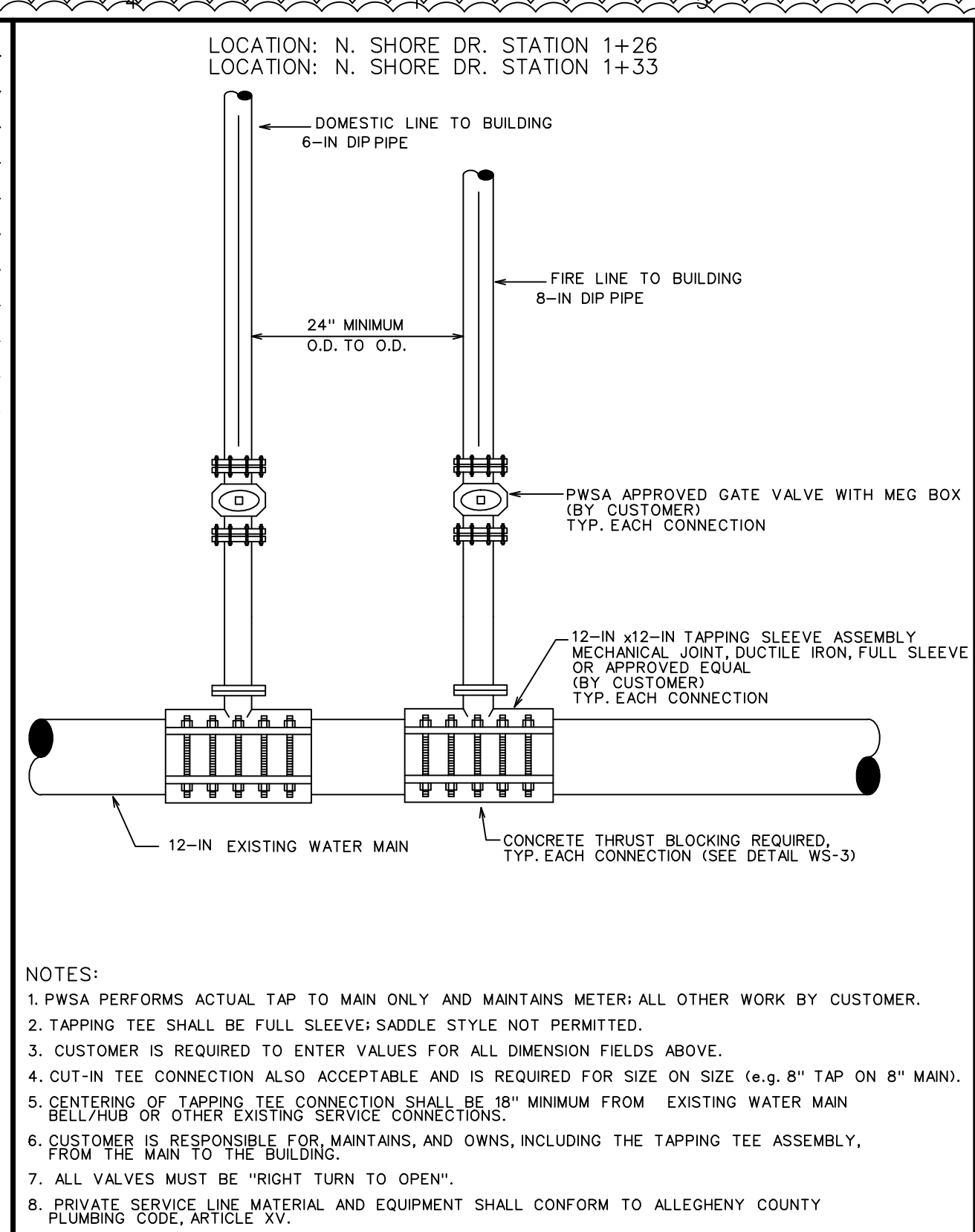
1. MSR 4-23-01	
2. DWP 9-15-05	
3. MAC 8-13-07	
4. LRC 1-31-14	

Approved by: Pittsburgh Water & Sewer Authority

Scale: N.T.S.

Supplemental Detail Drawing: **WS-5FPLH**

WS-5FPLH - TYPICAL PLUMBING SCHEMATIC LOW HAZARD FIRE PROTECTION SERVICE



REVISIONS

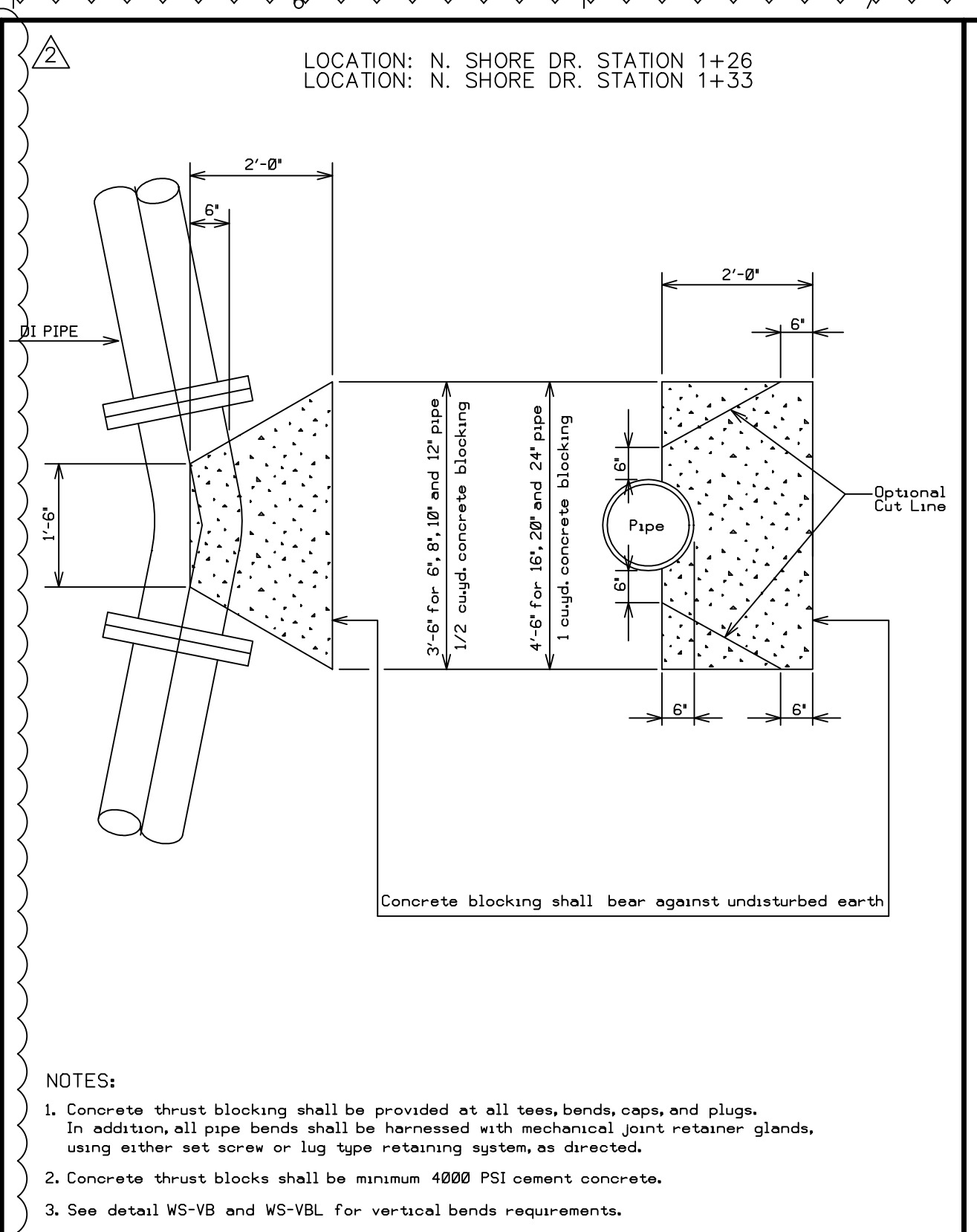
1. MSR 4-23-01	5. LRC 1-31-14
2. MAC 7-26-04	
3. MAC 9-9-05	
4. DWP 9-15-05	

Approved by: Pittsburgh Water & Sewer Authority

Scale: N.T.S.

Supplemental Detail Drawing: **WS-C2**

WS-C2 - SEPARATE DOMESTIC AND FIRE SERVICE CONNECTION (4-IN AND LARGER)



REVISIONS

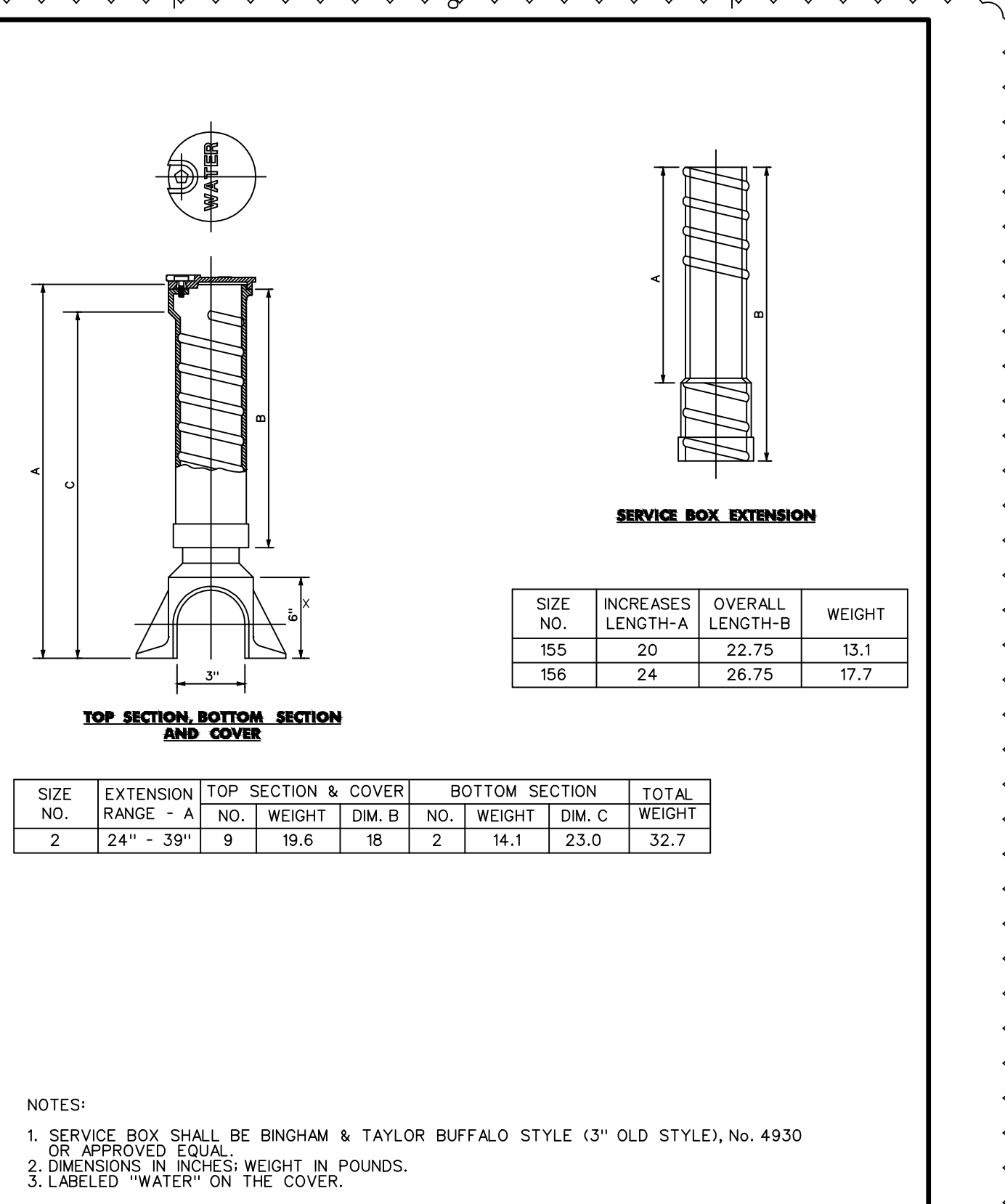
1. MSR 4-23-01	
2. MAC 8-13-07	
3. LRC 1-31-14	

Approved by: Pittsburgh Water & Sewer Authority

Scale: N.T.S.

Supplemental Detail Drawing: **WS-3**

WS-3 - CONCRETE BLOCKING FOR PRESSURE PIPE



REVISIONS

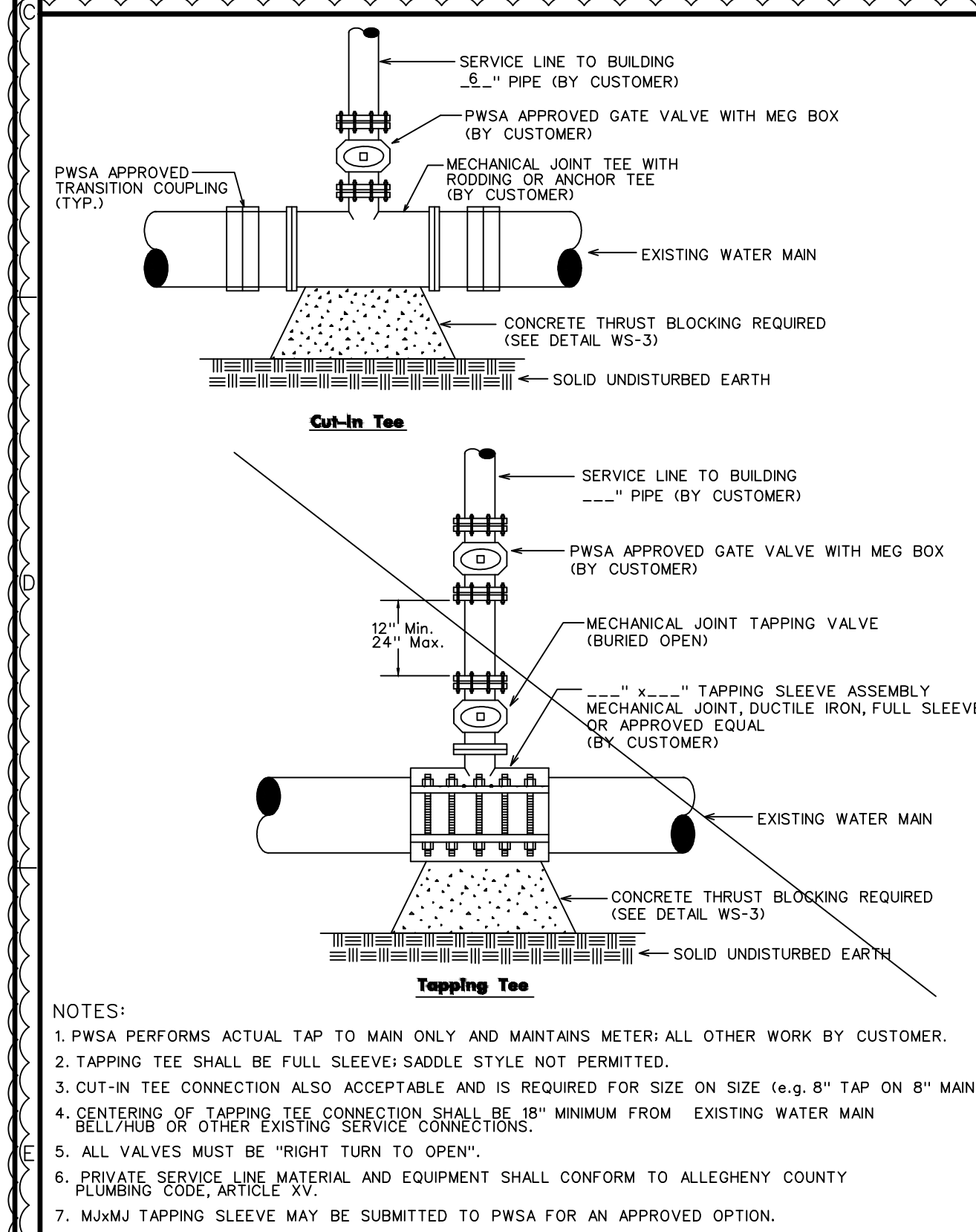
1. MSR 4-23-01	
2. MAC 8-13-07	
3. LRC 1-31-14	

Approved by: Pittsburgh Water & Sewer Authority

Scale: N.T.S.

Supplemental Detail Drawing: **WS-3**

WS-3 - CONCRETE BLOCKING FOR PRESSURE PIPE



REVISIONS

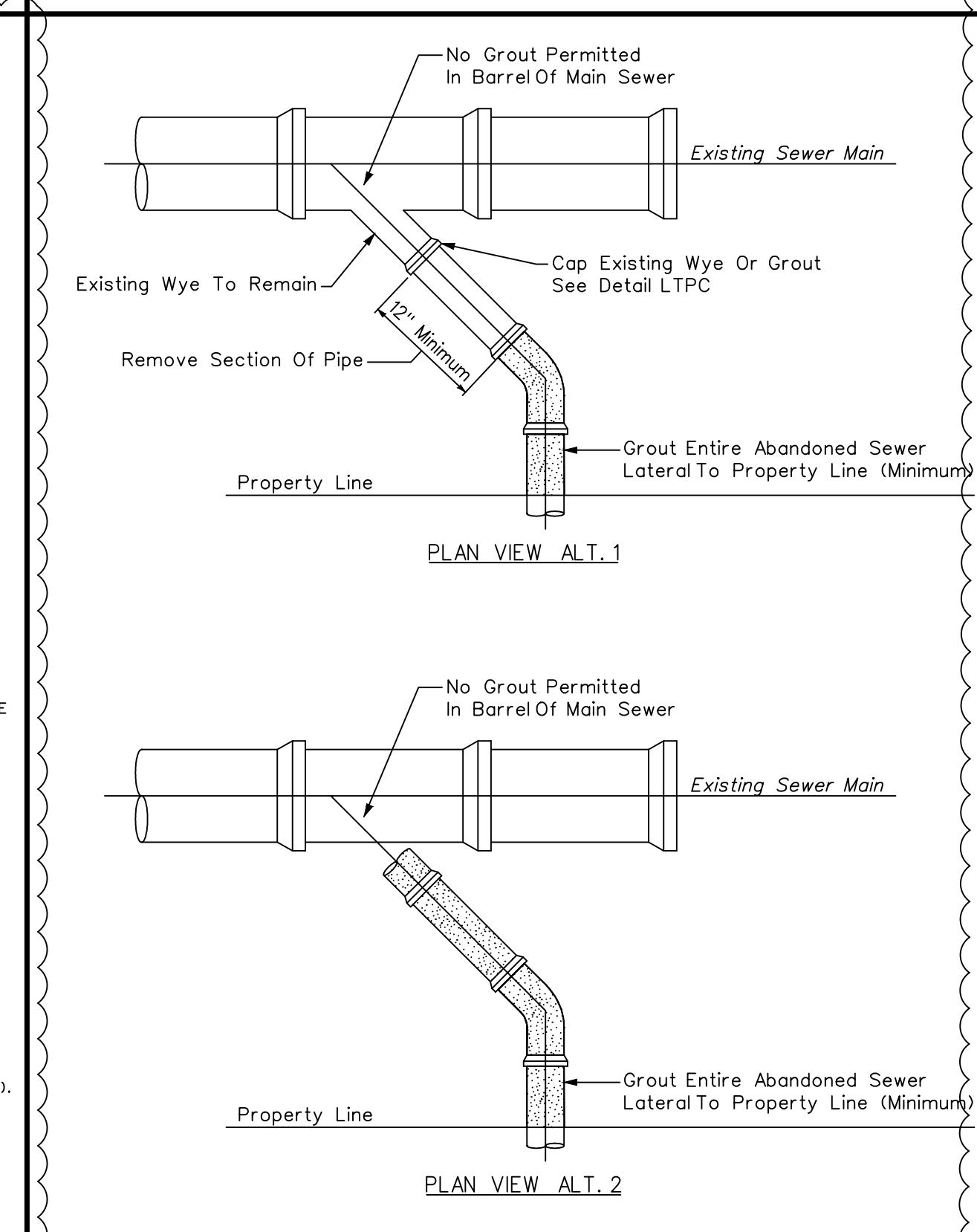
1. MSR 4-23-01	5. LRC 1-31-14
2. MAC 7-26-04	
3. DWP 9-15-05	
4. MAC 11-10-07	

Approved by: Pittsburgh Water & Sewer Authority

Scale: N.T.S.

Supplemental Detail Drawing: **WS-CIT**

WS-CIT - CUT-IN TEE AND TAPPING TEE



REVISIONS

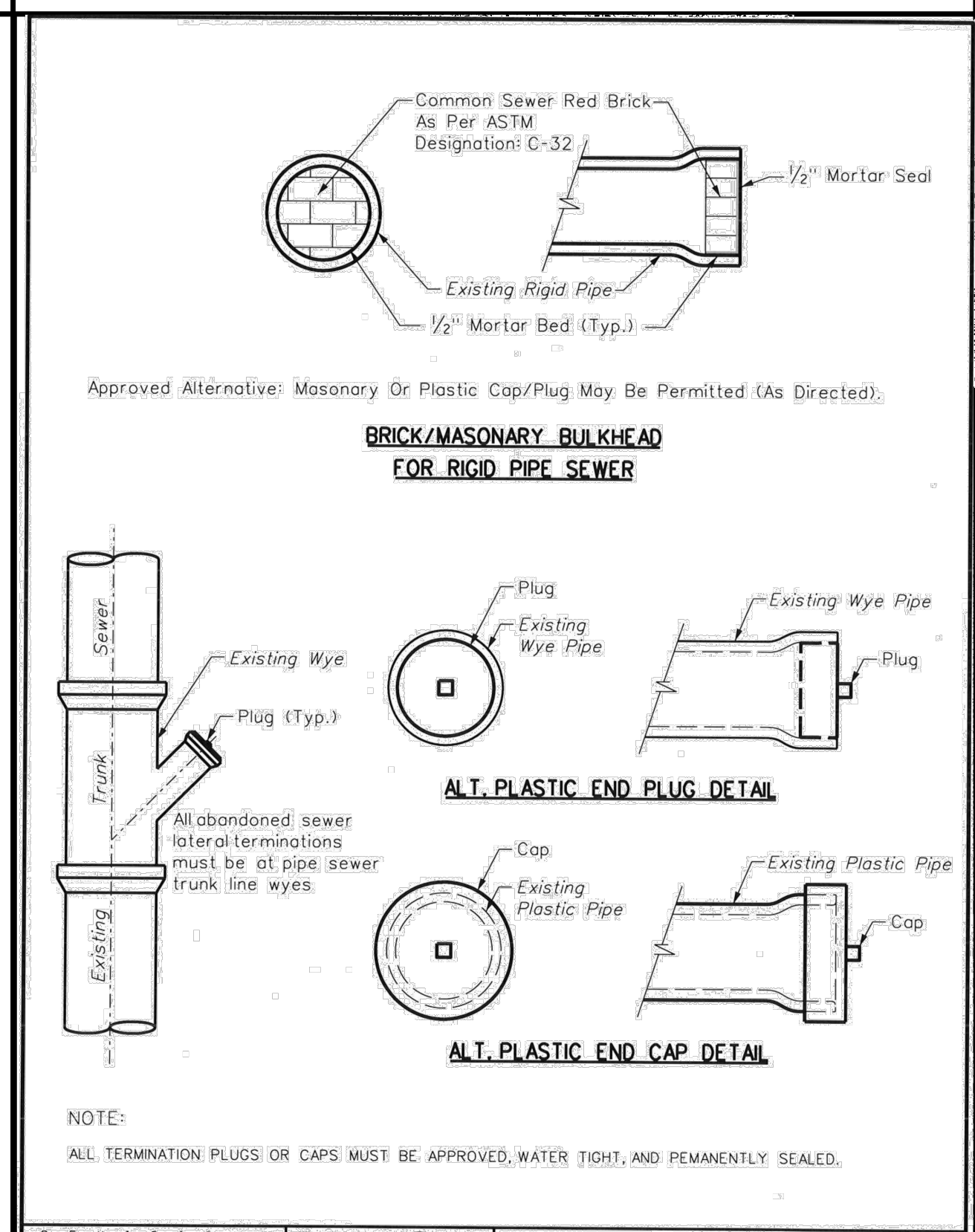
1. MAC 3-13-03	
2. LRC 1-31-14	

Approved by: Pittsburgh Water & Sewer Authority

Scale: N.T.S.

Supplemental Detail Drawing: **SLT1**

SLT1 - TERMINATION SEWER LATERAL



REVISIONS

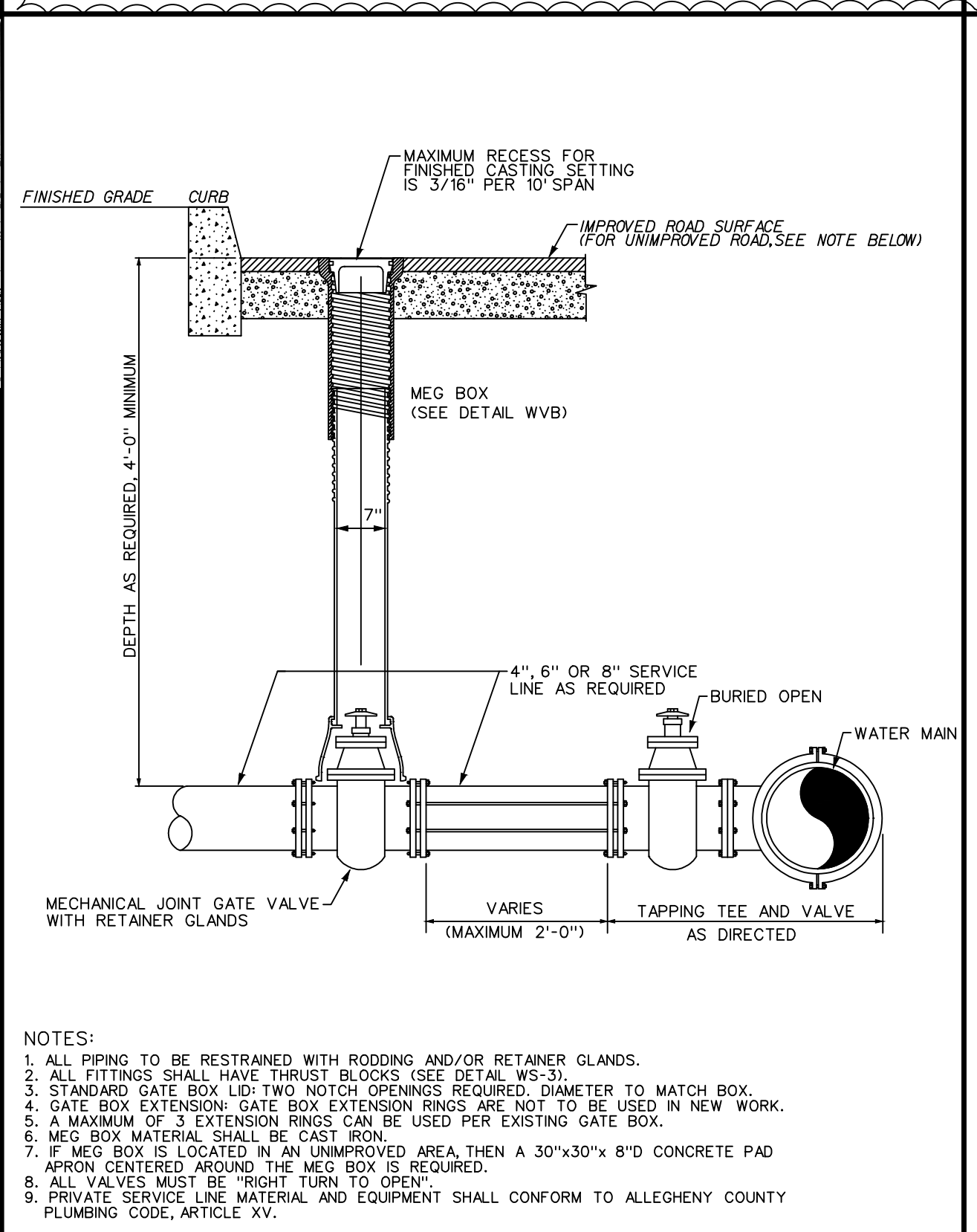
1. MSR 3-13-03	
2. MAC 3-2-05	
3. DWP 10-14-05	
4. LRC 1-31-14	

Approved by: Pittsburgh Water & Sewer Authority

Scale: N.T.S.

Supplemental Detail Drawing: **LTFC**

LTFC - TERMINATION SEWER LATERAL



REVISIONS

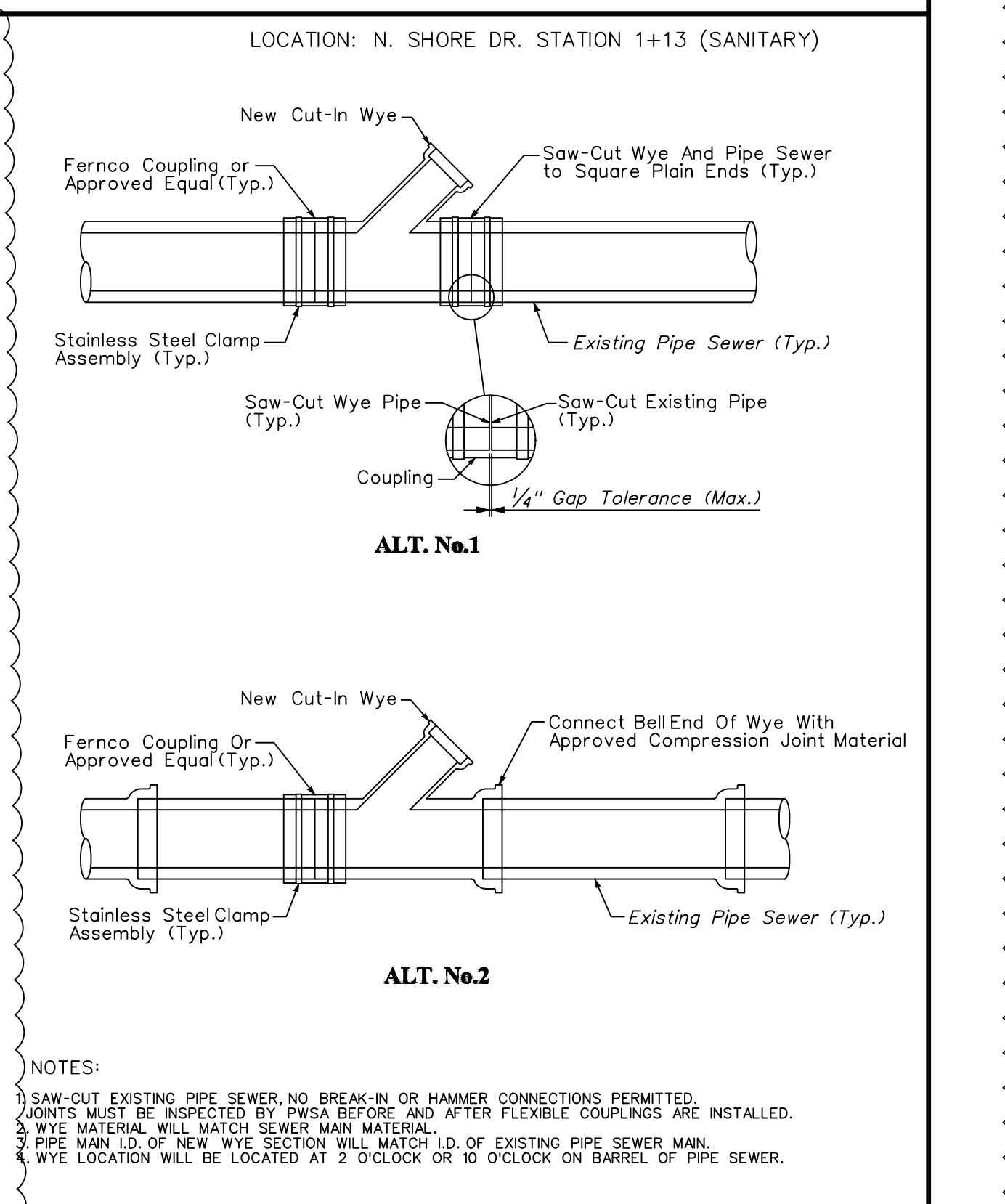
1. MSR 4-23-01	
2. MAC 11-2-07	
3. LRC 1-31-14	

Approved by: Pittsburgh Water & Sewer Authority

Scale: N.T.S.

Supplemental Detail Drawing: **WS-A**

WS-A - WATER SERVICE CONNECTION 4-IN THROUGH 8-IN



REVISIONS

1. JAK 8-14-02	
2. MAC 1-5-04	
3. LRC 1-31-14	

Approved by: Pittsburgh Water & Sewer Authority

Scale: N.T.S.

Supplemental Detail Drawing: **ST-7**

ST-7 - CUT-IN WYE PIPE TRANSITION

LANGAN Langan Engineering and Environmental Services, Inc. 2400 Ansys Drive, Suite 403 Canonsburg, PA 15317

Project: NORTH SHORE LOT 10

Drawing Title: TAP-IN DETAILS

Project No: 250101501

Date: 05/11/2020

Drawn By: NRK

Checked By: SML

Sheet 5 of 5

Date	Description	No.
09/27/22	PWSA REVISIONS	2
08/17/22	Mixed Use Bldg Water Edits	1

REVISIONS

SIGNATURE: SCOTT ROWLAND PROFESSIONAL ENGINEER PA Lic. No. PE080563

DATE SIGNED

CITY OF PITTSBURGH ALLEGHENY COUNTY PENNSYLVANIA

Project No: 250101501

Drawing Title: TAP-IN DETAILS

Project No: 250101501

Date: 05/11/2020

Drawn By: NRK

Checked By: SML

Sheet 5 of 5

APPENDIX G

Cultural Resource Notice

**SECTION G
SEWAGE FACILITIES PLANNING
MODULE COMPONENT 3**

**Re: Cultural Resources Notice (CRN)
North Shore Entertainment Plaza
City of Pittsburgh, Allegheny County, Pennsylvania
Langan Project No.: 250101503**

As the project area is less than 10 acres and does not contain any existing historical buildings, a Project Review Form – to initiate consultation for request for review by the State Historic and preservation Office (SHPO), Environmental Review Division – will not be submitted to the Pennsylvania Historical & Museum Commission (PHMC).

APPENDIX H

PNDI

1. PROJECT INFORMATION

Project Name: **North Shore Lot 10**

Date of Review: **3/11/2020 03:10:46 PM**

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

Project Area: **4.55 acres**

County(s): **Allegheny**

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

ZIP Code: **15212**

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

Watersheds HUC 8: **Lower Allegheny**

Watersheds HUC 12: **Allegheny River-Ohio River**

Decimal Degrees: **40.447136, -80.008278**

Degrees Minutes Seconds: **40° 26' 49.6904" N, 80° 0' 29.8022" 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	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response

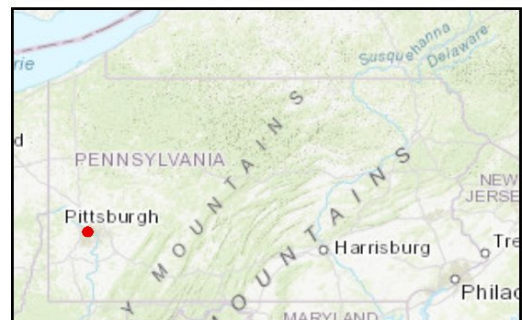
As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

North Shore Lot 10

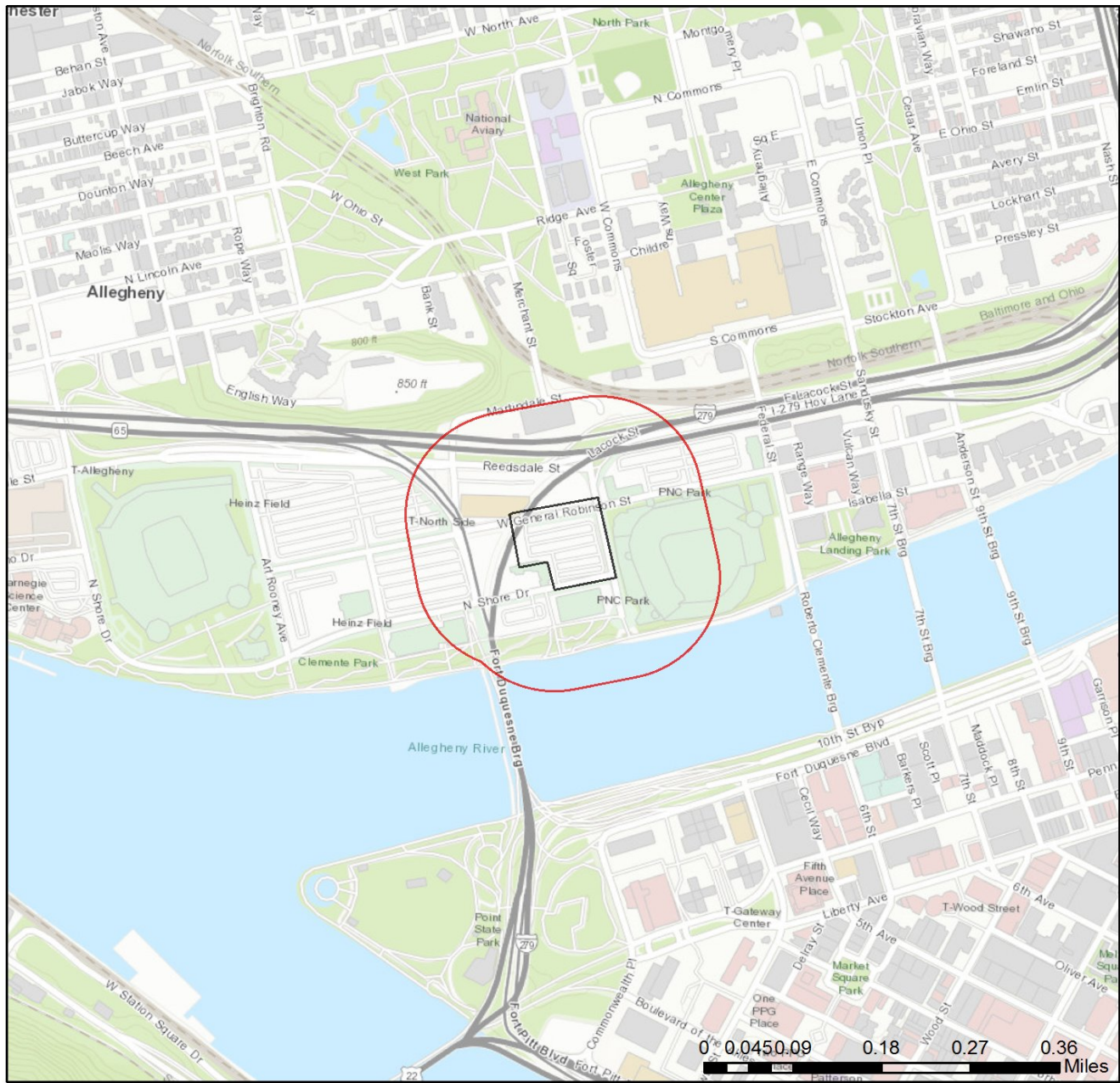


- Project Boundary
- Buffered Project Boundary

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

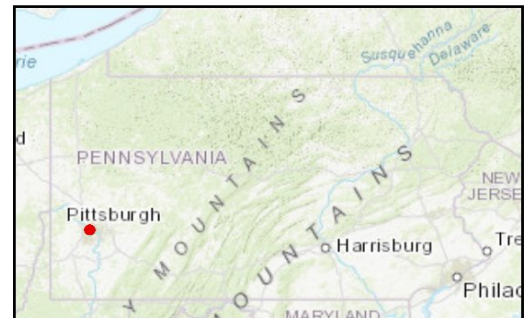


North Shore Lot 10



- Project Boundary
- Buffered Project Boundary

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



RESPONSE TO QUESTION(S) ASKED

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

Your answer is: No forests, woodlots or trees will be affected by the project.

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

Your answer is: No

3. AGENCY COMMENTS

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

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

PA Game Commission

RESPONSE:

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

PA Department of Conservation and Natural Resources

RESPONSE:

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

PA Fish and Boat Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Leptodea fragilis	Fragile Papershell	Special Concern Species*
Quadrula quadrula	Mapleleaf	Special Concern Species*
Sensitive Species**		Endangered

U.S. Fish and Wildlife Service

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email* the following information to the agency(s). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies. Alternatively, applicants may email or mail their project materials (see AGENCY CONTACT INFORMATION).

***Note:** U.S.Fish and Wildlife Service requires applicants to mail project materials to the USFWS PA field office (see AGENCY CONTACT INFORMATION). USFWS will not accept project materials submitted electronically (by upload or email).

Check-list of Minimum Materials to be submitted:

___ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

___ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

In addition to the materials listed above, USFWS REQUIRES the following

___ **SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.

___ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

___ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

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: _____
Company/Business Name: _____
Address: _____
City, State, Zip: _____
Phone: (_____) _____ Fax: (_____) _____
Email: _____

8. CERTIFICATION

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

applicant/project proponent signature

date



Pennsylvania Fish & Boat Commission

Division of Environmental Services
Natural Diversity Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823
814-359-5237

June 30, 2020

IN REPLY REFER TO
SIR# 52866

Langan
Nathaniel King
2400 Ansys Drive
Canonsburg, Pennsylvania 15317

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 699293_1
North Shore Lot 10
ALLEGHENY County: Pittsburgh City

Dear Nathaniel King :

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search “potential conflict” or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

An element occurrence of a rare, candidate, threatened, or endangered species under our jurisdiction is known from the vicinity of the proposed project. However, given the nature of the proposed project, the immediate location, or the current status of the nearby element occurrence(s), no adverse impacts are expected to the species of special concern.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

Our Mission:

www.fish.state.pa.us

To protect, conserve and enhance the Commonwealth's aquatic resources and provide fishing and boating opportunities.

If you have any questions regarding this review, please contact Nevin Welte at 412-586-2334 and refer to the SIR # 52866. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent initial "C".

Christopher A. Urban, Chief
Natural Diversity Section

CAU/NTW/dn

PNDI # _____ USFWS Project # _____

U.S. FISH AND WILDLIFE SERVICE
110 Radnor Road, Suite 101, State College, PA 16801

This responds to your inquiry about a PNDI Internet Database search that resulted in a potential conflict with a federally listed, proposed or candidate species.

PROJECT LOCATION INFORMATION

County: _____
Township: _____

MISC INFORMATION

Date received by FWS: _____
 ACTIVE ARCHIVE

USFWS COMMENTS

EMAILED MAILED

Email: _____

To: _____

Affiliation: _____

SPECIFIC PROJECT: _____

FISH AND WILDLIFE SERVICE COMMENT(s):

_____ ***NOT LIKELY TO ADVERSELY AFFECT***

The federally listed _____ occurs or may occur in or near the project area. However, based on our review of the information provided, including the project description and location (_____),

no adverse effects to this species are likely to occur. If there is any change in the location, scale, scope, layout or design of the project, further consultation or coordination with the Service will be necessary.

The above determination is valid for two years from the date of this letter. In addition, this response relates only to federally listed, proposed, and candidate species under our jurisdiction, based on an office review of the proposed project's location and anticipated impacts. No field inspection of the project area has been conducted by this office. Consequently, comments on this form are not to be construed as addressing other Service concerns under the Fish and Wildlife Coordination Act or other authorities. *Please reference the above PNDI # and USFWS Project # in any future correspondence regarding this project.*

This review was conducted by the biologist listed below. He/she can be contacted at 814-206-(Extension).

Melinda Turner (x7449)
Richard Novak (x7477)

Nicole Ranalli (x7455)
Alison Whitlock (x7461)

Jennifer Kagel (x7451)
Pamela Shellenberger (x7459)

SIGNATURE: _____

Supervisor, Pennsylvania Field Office

APPENDIX I

Component 4A



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
North Shore Entertainment Plaza

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

1. Date plan received by municipal planning agency 1/4/2024
2. Date review completed by agency 1/17/2024

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

- | Yes | No | |
|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 1. Is there a municipal comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101, <i>et seq.</i>)? |
| <input type="checkbox"/> N/A | <input type="checkbox"/> | 2. Is this proposal consistent with the comprehensive plan for land use?
If no, describe the inconsistencies _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Is this proposal consistent with the use, development, and protection of water resources?
If no, describe the inconsistencies _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Is this proposal consistent with municipal land use planning relative to Prime Agricultural Land Preservation? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. Does this project propose encroachments, obstructions, or dams that will affect wetlands?
If yes, describe impacts _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 6. Will any known historical or archaeological resources be impacted by this project?
If yes, describe impacts _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 7. Will any known endangered or threatened species of plant or animal be impacted by this project?
If yes, describe impacts _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. Is there a municipal zoning ordinance? |
| <input 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: Kyla Prendergast
 Title: Senior Environmental Planner
 Signature: *Kyla Prendergast*
 Date: 1/17/2024
 Name of Municipal Planning Agency: Department of City Planning
 Address 100 Ross Street, Suite 202, Pittsburgh, PA 15219
 Telephone Number: 412-255-2200

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.

APPENDIX J

Component 4C

**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.

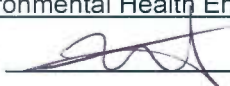
SECTION A. PROJECT NAME (See Section A of instructions)

Project Name
North Shore Entertainment Plaza

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

1. Date plan received by county or joint county health department 01/23/2024
 Agency name Allegheny County Health Department (ACHD)
2. Date review completed by agency 01/31/2024

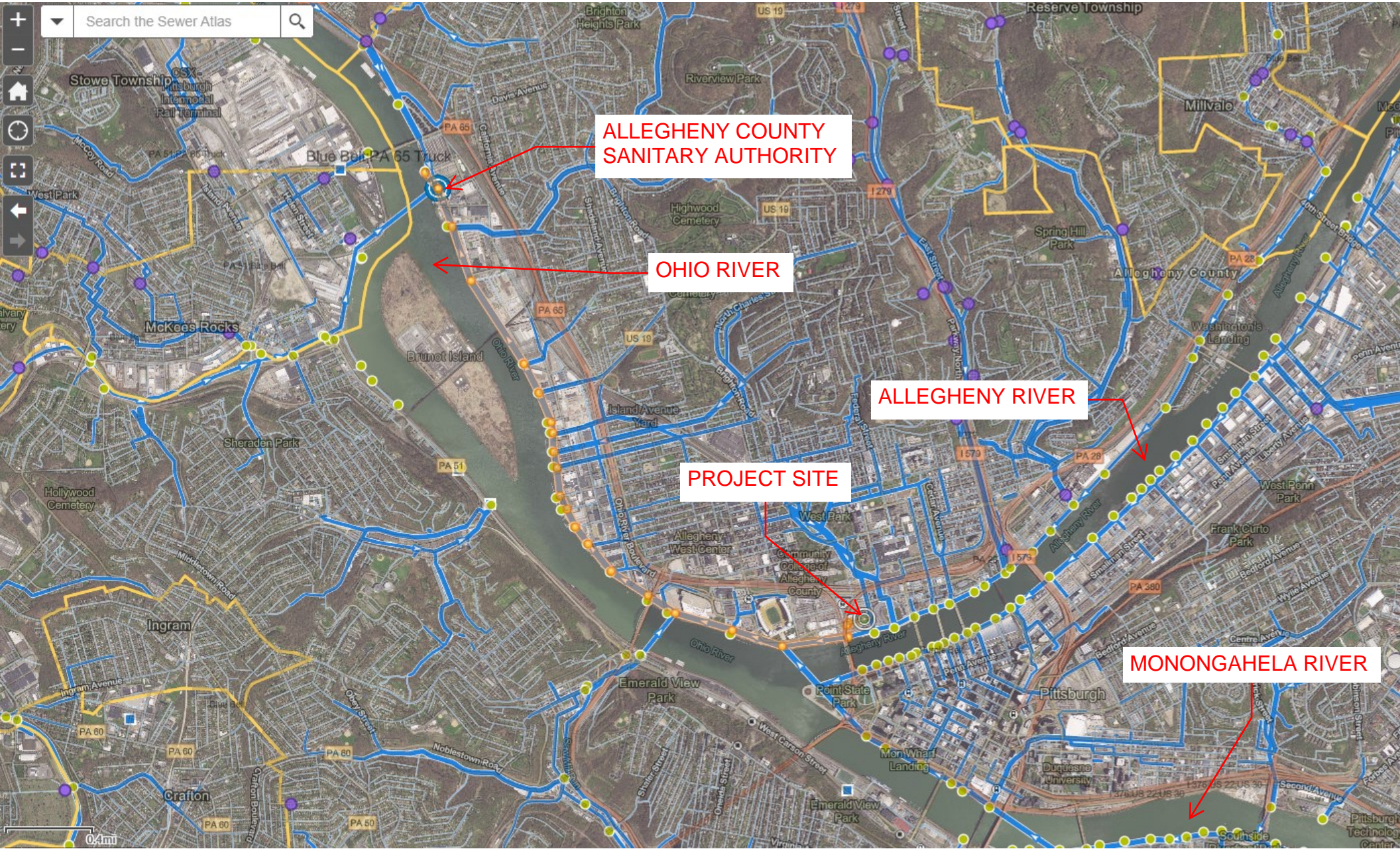
SECTION C. AGENCY REVIEW (See Section C of instructions)

Yes	No	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. Is the proposed plan consistent with the municipality's Official Sewage Facilities Plan? If no, what are the inconsistencies? _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. Is there any known groundwater degradation in the area of this proposal? If yes, describe _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. The county or joint county health department recommendation concerning this proposed plan is as follows: <u>ACHD recommends approval. Please see attached letter.</u>
		5. Name, title and signature of person completing this section: Name: <u>Issa Tijani</u> Title: <u>Environmental Health Engineer</u> Signature:  Date: <u>01/31/2024</u> Name of County Health Department: <u>Allegheny County Health Department</u> Address: <u>3901 Penn Avenue, Building #5, Pittsburgh, PA 15224</u> Telephone Number: <u>412-578-8046</u>

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

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

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



ALLEGHENY COUNTY
SANITARY AUTHORITY

OHIO RIVER

ALLEGHENY RIVER

PROJECT SITE

MONONGAHELA RIVER



Search the Sewer Atlas

12-IN DIA. SAN

12-IN DIA. SAN

12-IN DIA. SAN

200ft

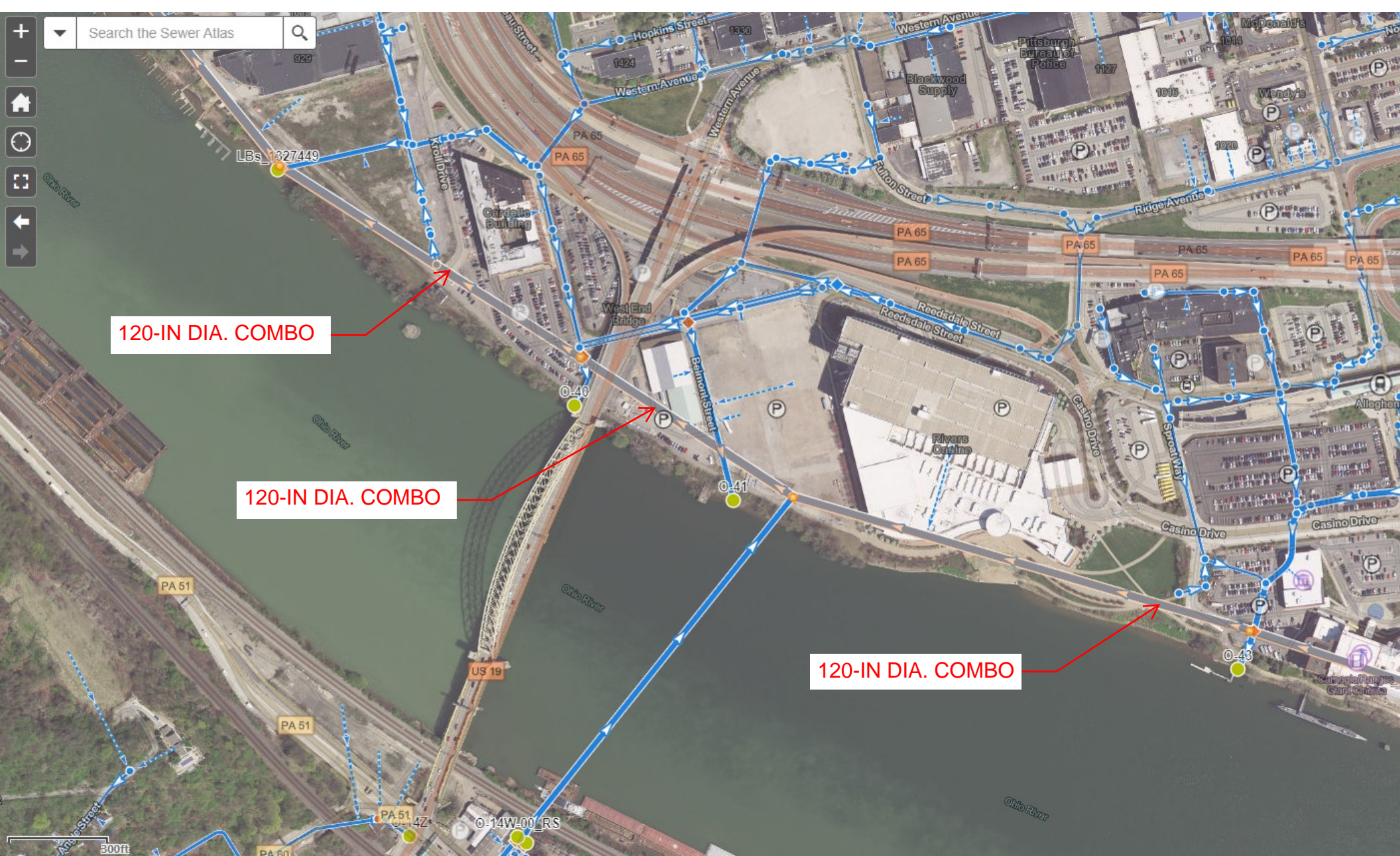


120-IN DIA. COMBO

60-IN DIA. COMBO

Search the Sewer Atlas

300ft



120-IN DIA. COMBO

120-IN DIA. COMBO

120-IN DIA. COMBO

Search the Sewer Atlas



120-IN DIA. COMBO

120-IN DIA. COMBO

120-IN DIA. COMBO

120-IN DIA. COMBO



300ft



120-IN DIA. COMBO

120-IN DIA. COMBO

120-IN DIA. COMBO

120-IN DIA. COMBO

Search the Sewer Atlas

120-IN DIA. COMBO

120-IN DIA. COMBO



300ft

Search the Sewer Atlas



120-IN DIA. COMBO

0.29

300ft

Search the Sewer Atlas



300ft

APPENDIX K

Previously Approved SFPM



Pennsylvania Department of Environmental Protection

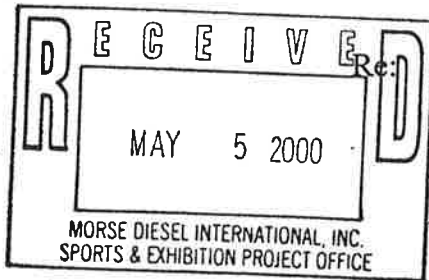
400 Waterfront Drive
Pittsburgh, PA 15222-4745
April 19, 2000

Southwest Regional Office

412-442-4000
Fax 412-442-4328

CC: LAW/SFW
SCAN/PF
JAS
S. KRAMER
KBT
CAD
C. MEYERS - M.D.

Don Waldorf
The Pittsburgh Water and Sewer Authority
441 Smithfield Street
Second Floor
Pittsburgh, PA 15222



Re: Planning Module for New Land Development
North Short Infrastructure Project
DEP Code No. 02001-99-012
City of Pittsburgh
Allegheny County

Dear Mr. Waldorf:

The Department of Environmental Protection (Department) has reviewed the proposed Official Plan revision submitted for the North Short Infrastructure Project. The proposed development is located in the City of Pittsburgh.

The plan revision is approved with the following conditions:

The approved project will require a Clean Streams Law (CSL) permit for the construction and operation of the proposed sewerage facilities. Approval of this planning module is only approval of the preliminary concept of the proposed project and does not assure that a permit application will be acted upon favorably by the Department. Issuance of a CSL permit will be based upon a technical evaluation of the permit application and supporting information. Starting construction prior to obtaining a permit is a violation of The Clean Streams Law

Instructions and applications may be obtained from the Department's Southwest Regional Office, Water Management Program, at the letterhead address.

Please note the Department has a fee schedule for PMC reviews. This fee schedule applies to most projects that require planning. A separate letter has been sent to the developer of this project assessing the appropriate fee for review of the PMC.

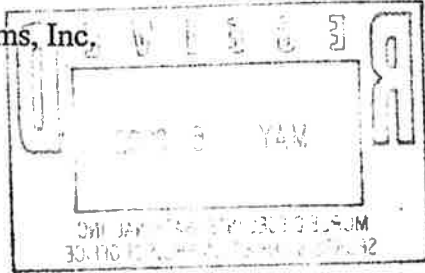
April 19, 2000

If you have any questions concerning this matter, please call me at 412-442-4047.

Sincerely,

Thomas E. Flanagan
Sewage Facilities Planning Specialist
Water Management

- cc: Allegheny County Health Department
- ALCOSAN
- Linda M. Johnson Wasler, City of Pittsburgh
- Steven Kramer, Michael Baker, Jr., Inc.
- Bruce Chambers, Advanced Technology Systems, Inc.



isioff
sispool

hns
di to
hator
pitan
inn

TABLE IV

ITEM #	Block Number	Total Area (SQ FT)	Number of Units	Population	Factor for Commercial Appendix B	Per Capital Flow GDP	Unit for Total Population	EDU	Total GPD	Total Flow cfs	Peak Flow Peak Flow cfs
Sewer @ W. General Robinson St. Ext.											
1	216	100000			0.18			51,428571	18000	0.027850122	0.05992553
2	216	150000	500	1		25	per office	35,714285	12500	0.019340362	0.04633509
3	216	200000			0.03			17,142857	6000	0.009263374	0.0232094
4	216	75000			0.05			10,714286	3750	0.006802109	0.01450593
					TOTAL FLOWS FROM BLOCK 216			115	40250	0.062275987	0.1556989
5	215		6000	1		50	per seat	857,14286	300000	0.4541687	1.1604217
6	215	75000			0.05			10,714286	3750	0.005802109	0.01450593
7	215	50000	187	1		25	per office	11,928571	4175	0.006459681	0.0161492
8	215		300	3		100	per unit	257,14286	90000	0.13925061	0.3481265
					TOTAL FLOWS FROM BLOCK 215			1136,9288	397925	0.6156811	1.5392027
TOTAL FLOWS FROM BLOCK 216 & 215											
9	201	100000			0.05			14,285714	5000	0.007736145	0.0193404
10	201	200000			0.03			17,142857	6000	0.009263374	0.0232094
					TOTAL FLOWS FROM BLOCK 201			31,428571	11000	0.017019519	0.0425488
11	202	50000	187	1		25	per office	11,928571	4175	0.006459681	0.0161492
12	202		300	2		100	per room	171,42857	60000	0.09263374	0.2320943
13	202	100000			0.03			8,5714286	3000	0.004841687	0.0116042
14	202	85000			0.05			12,142857	4250	0.006575723	0.0164393
15	202		300	3		100	per unit	257,14286	90000	0.13925061	0.3481265
					TOTAL FLOWS FROM BLOCK 202			461,21429	161425	0.249761441	0.6244036
TOTAL FLOWS FROM BLOCK 201 & 202											
								492,84288	172425	0.26676099	0.6669524
Sewer Receiving Flows From General Robinson Street											
					TOTAL			1744,5714	810600	0.944736027	2,3618451
Potential Development North of Reedsdale											
16	211	210600	702	1		25	per office	50,142857	17550	0.027153969	0.0678947
17	211	210600	702	1		25	per office	50,142857	17550	0.027153969	0.0678947
17	211	210600	702	1		25	per office	50,142857	17550	0.027153969	0.0678947
					TOTAL FLOWS FROM BLOCK 211			150,42857	52650	0.081461607	0.208654
Sewer Receiving Flows From West General Robinson Street (New)											
					TOTAL PROJECT			1895	663250	1,026199634	2,6544991

FLOW CALCULATION CHART

PREPARED BY: DDG
DATE PREPARED: 9/21/99
CHECKED BY: BRG
DATE CHECKED: 12/13/99



Southwest Regional Office

August 10, 2022

Brenda Pree
City of Pittsburgh
414 Grant Street
510 City County Building
Pittsburgh, PA 15222

Re: Approval Letter-Revision-Component 3
Act 537 Planning
North Shore Lot 10 Mixed Use Building
77 EDU's or 30,810 GPD
DEP Code No. 02001-21-090
City of Pittsburgh
Allegheny County

Dear Ms. Pree:

The Department of Environmental Protection (DEP) has reviewed the proposed Official Plan revision for the North Shore Lot 10 Mixed-Use Building. The proposed project is the construction of a Multi-Use Building located off North Shore Drive, City of Pittsburgh, Allegheny County.

The plan revision is approved.

The project will connect to PWSA's collection system and will generate 30,810 gallons of sewage per day to be treated at the ALCOSAN Wastewater Treatment Facility.

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board
Rachel Carson State Office Building, Second Floor
400 Market Street
P.O. Box 8457
Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800.654.5984.

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the

appropriate statute provides a different time. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at <http://ehb.courtapps.com> or by contacting the Secretary to the Board at 717.787.3483. The Notice of Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717.787.3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.

If you have any questions or concerns, please contact Regis Ryan of my staff at either 412.442.4052 or reryan@pa.gov and refer to DEP Code No. 02001-21-090.

Sincerely,

Thomas E. Flanagan

Thomas E. Flanagan
Sewage Planning Specialist Supervisor
Clean Water Program

cc: Barry Ford, Continental Development, Inc
Scott Rowland, Langan Engineering
ACHD

APPENDIX L

COMPLETENESS CHECKLIST

Checklist



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