



PITTSBURGH WATER AND SEWER AUTHORITY

WATER AND SEWER AVAILABILITY LETTER REQUEST FORM

All persons planning to perform construction, demolition, or renovation work that will involve water and/or sewer services are recommended to complete this form and submit to PWSA. PWSA will review the request and reply to indicate if PWSA-owned water and/or sewer utilities are present at the site of the proposed work.

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

- 1. New water and/or sewer tap(s) for all approved/recorded subdivisions.
2. Change of Use and/or increase in water and/or sewer flows for residential development(s), commercial, industrial and institutional developments (i.e. total project sanitary flow is greater than 799 gallons per day).
3. New water and/or sewer tap(s) for all residential, commercial, industrial, and institutional developments.

Information to be submitted by the Applicant:
Property Owner Name: Penn-Ohio Group
Address of Property: 911 Pretense Way & 908 PJ McArdle Roadway, Pittsburgh, PA 15203 (B&L: 3-L-209 & 3-L-211)
Proposed Use of Site: Construction of five (5) new condominiums with all associated hardscaping, landscaping, utilities, etc.
Closest street intersection to the property: P.J. McArdle Roadway & South 9th Street
Requestor Name: Zach Milanak Date of Request: 12/3/2018
Requestor Address: 3824 Northern Pike, Suite 800, Monroeville, PA 15146
Requestor Phone Number: (724) 325-1215

Please submit the completed form to:

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

PWSA Use Only:
PWSA Water Service Available: [X] Yes [ ] No Water Size / Location: 8" McArdle Rdwy / access to 6" on Pretense way
PWSA Sewer Service Available: [X] Yes [ ] No Sewer Size / Location: 15" Pretense Way, 15" McArdle Rdwy
Applicant must contact separate agency for water and/or sewer service: [ ] Yes [X] No
Name of separate agency:
PWSA Approval Authority: Signature and Date: Julie Ascioia 12/4/18
Name (printed): Julie Ascioia
Title: Business & Development Relations Manager

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

December 4, 2018

Zach Milanak  
3824 Northern Pike, Suite 800  
Monroeville, PA 15146

**RE: Water and Sewer Availability  
911 Pretense Way and 908 PJ McArdle Roadway – 15146**

Dear Mr. Milanak:

In response to your inquiry on 12/3//2018 concerning water and sewer availability for the area referenced above, please be advised that both water and sewers are available near the site, and water and sewer service will be provided in accordance with the policies and procedures of the Pittsburgh Water and Sewer Authority.

We wish to advise you that, if it is your desire to tap our water and sewer mains for service, your plans and Water and Sewer Use Application must be approved by the Authority, complete with detail showing the type of connection, meter, and backflow device before any work is performed.

Please note that the Authority in no way guarantees that the available lines have the capacity or pressure adequate for your project's needs. It is the responsibility of the project developer, design consultant, and/or architects to determine, at their expense, the adequacy of the existing water system to fulfill their needs.

If you plan to make modifications to the water or sewer system, please submit design drawings to The Pittsburgh Water and Sewer Authority for approval.

**Refer to the Pittsburgh Water and Sewer Authority (PWSA) website ([www.pgh2o.com](http://www.pgh2o.com)) for the complete "Procedure Manual for Developers". All tap in plans and applications must be submitted according to the manual. PWSA highly encourages a pre-development meeting for all developments.**

If you have any questions, please feel free to contact me at (412) 255-8800 x8019. Thank you.

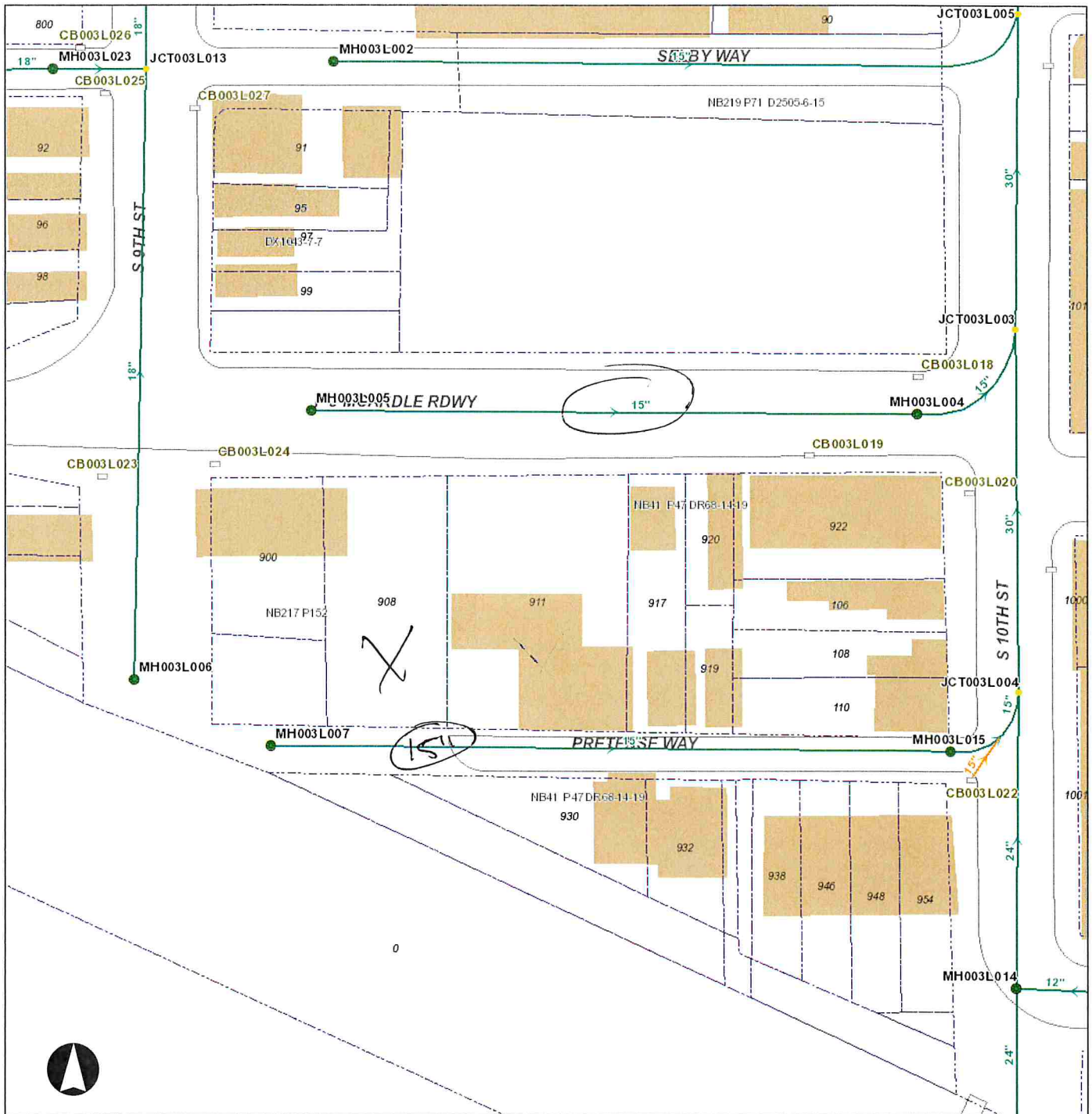
Sincerely,



Julie Ascioffa  
Business and Development Relations Manager

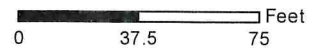
cc: PWSA File

# 911 Pretense & 908 PJ McArdle Sewer



## Legend

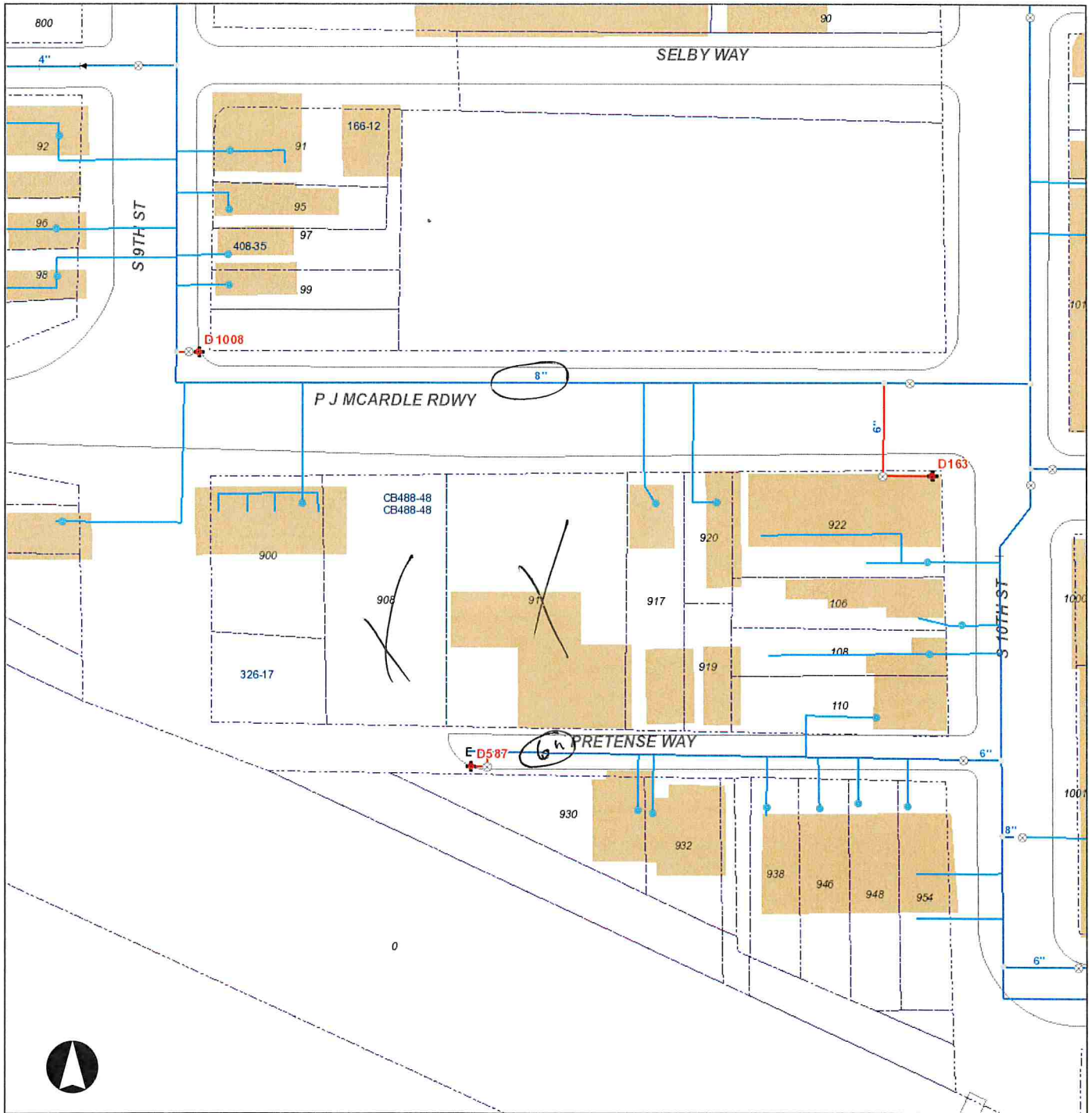
Meter	Water Manhole	Outfall
Pump	Rising Main	End Cap
Hydrant	Supply Main	Sewer Pump Station
Hydrant- Out of Service	Transmission Main	Combined Sewer
System Valve	Distribution Main	Sanitary Sewer
Dividing Pressure Valve	Hydrant Branch	Storm Sewer
Cap	Private Main	Regulated Combined Sewer
Tee or Cross	Water Service Line	Overflow Sewer
Reducer	Manhole	Interceptor
Coupling	Junction	Sewer Force Main
Wash Out	Inlet	Private Sewer
	Private Inlet	Undefined Sewer



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

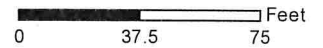
Date: 12/4/2018

# 911 Pretense & 908 PJ McArdle Sewer



## Legend

Meter	Water Manhole	Outfall
Pump	Rising Main	End Cap
Hydrant	Supply Main	Sewer Pump Station
Hydrant- Out of Service	Transmission Main	Combined Sewer
System Valve	Distribution Main	Sanitary Sewer
Dividing Pressure Valve	Hydrant Branch	Storm Sewer
Cap	Private Main	Regulated Combined Sewer
Tee or Cross	Water Service Line	Overflow Sewer
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	Private Inlet	Undefined Sewer



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Date: 12/4/2018



September 23, 2019

Mr. Zach Milanak  
Red Swing Group  
One Monroeville Center  
3824 Northern Pike, Suite 800  
Monroeville, PA 15146

Subject: Water and Sewer (W/S) Use Approval Letter  
908 McArdle Roadway, Pittsburgh, PA 15146  
Submitted: July 16, 2019

Dear Mr. Milanak:

Pursuant to your request, we have reviewed the Water and Sewer Use Application for the 908 McArdle Roadway (Project) located at 908 McArdle Roadway, Pittsburgh, PA 15146. We agree that the Project will result in the following flows:

Total Water Consumption, gpd:	<u>1,200</u>
Total Sanitary Flows, gpd:	<u>1,200</u>
Total Storm Flows, cfs:	<u>0.42</u>

Please be advised that this W/S Use Approval Letter is intended for PWSA purposes only. The Pennsylvania Department of Environmental Protection (PaDEP) is the governing body that makes the final determination on whether sewage facilities planning is required. The PWSA shall send a separate letter to the PaDEP for final review/approval. In the event that sewage facilities planning are required, we have enclosed for your use the location of the most limited capacity sewer.

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

Sincerely,

  
Robert Herring, P.E.  
Engineering Consultant

Enclosures

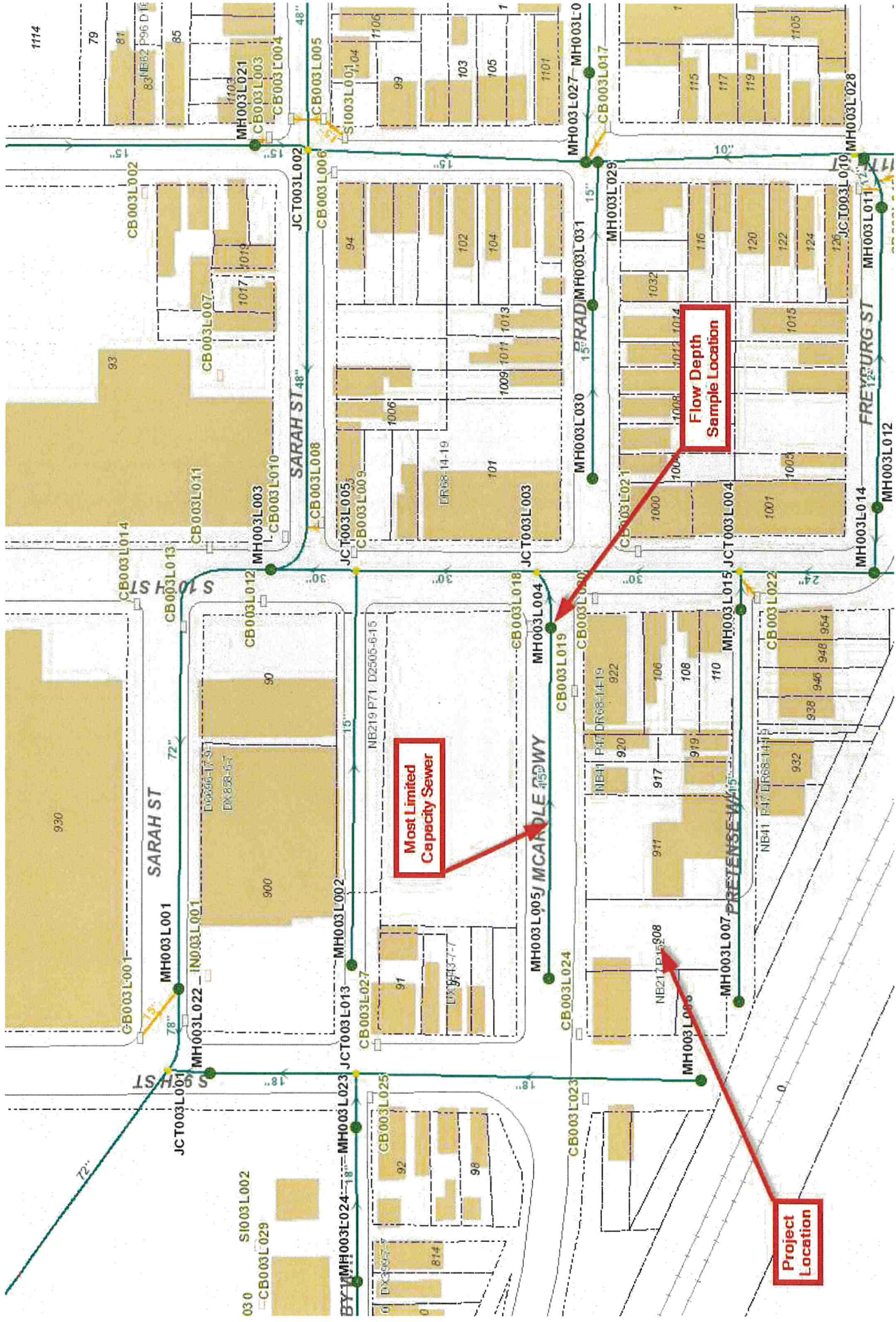
cc: Barry King, P.E. – PWSA (via email)  
Kate Mechler, P.E. – PWSA (via email)  
Julie Ascioilla – PWSA (via email)  
Thomas Flanagan – DEP (via email)  
Regis Ryan – DEP (via email)  
Robert George – DEP (via email)  
eBuilder File (via email)

Penn Liberty Plaza I  
1200 Penn Avenue  
Pittsburgh PA 15222

info@pgh2o.com  
T 412.255.2423  
F 412.255.2475

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

Customer Service /  
Emergencies:  
**412.255.2423**



Most Limited Capacity Sewer

Flow Depth Sample Location

Project Location

1114

79

81

83

85

87

89

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130



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

**LEGEND:**

Output Data
Input Data
Questionable Data
Hydraulically Limited Sewer

<b>PROJECT NAME:</b>	908 McArdle Roadway Development
<b>PROJECT LOCATION:</b>	908 McArdle Roadway, Pittsburgh, PA 15203
<b>ALCOSAN INTERCEPTOR:</b>	Monongahela
<b>PWSA REVIEWER:</b>	Robert Herring, P.E.
<b>DATE:</b>	September 23, 2019

Upstream MH	Downstream MH	Upstream Invert	Downstream Invert	Length, ft	Diam., in.	Material	n	Area, sf	Wetted P, ft	Slope	Flow, gpm
MH003L005	MH003L004	0.00	0.00	241.91	15	VCP	0.015	1.23	3.927	0.15%	1,405,172
MH003L004	JCT003L003	0.00	0.00	58.27	15	VCP	0.015	1.23	3.927	0.15%	1,405,172
JCT003L003	JCT003L005	0.00	0.00	126.80	30	VCP	0.015	4.91	7.854	0.15%	8,922,284
JCT003L005	MH003L003	0.00	0.00	35.71	30	VCP	0.015	4.91	7.854	0.58%	17,544,638
MH003L003	MH003L001	730.21	726.92	340.12	72	BR	0.016	28.27	18.850	0.97%	219,320,994
MH003L001	JCT003L001	0.00	0.00	58.02	78	BR	0.016	33.18	20.420	0.97%	271,883,692
JCT003L001	JCT003G012	0.00	0.00	454.61	72	BR	0.016	28.27	18.850	0.97%	219,626,231
JCT003G012	JCT003G011	0.00	0.00	2.56	72	BR	0.016	28.27	18.850	0.97%	219,626,231
JCT003G011	MH003G025	0.00	0.00	21.05	72	BR	0.016	28.27	18.850	0.97%	219,626,231
MH003G025	MH003G028	720.20	719.09	110.84	60	BR	0.016	19.63	15.708	1.00%	137,233,956
MH003G028	JCT003G005	719.09	717.74	120.86	60	BR	0.016	19.63	15.708	1.12%	144,935,222
JCT003G005	MH003G024	717.74	715.53	301.99	60	BR	0.016	19.63	15.708	0.73%	117,313,558
MH003G024	MH003G026	715.43	703.86	251.41	66	BR	0.016	23.76	17.279	4.60%	379,318,698
MH003G026	ADC003CM10	703.86	700.29	155.32	72	RCP	0.013	28.27	18.850	2.30%	416,097,770

Project No.

(PWSA USE ONLY)

## THE PITTSBURGH WATER AND SEWER AUTHORITY ENGINEERING AND CONSTRUCTION DIVISION

### WATER AND SEWER USE APPLICATION FORM

*(Return completed submittal package to The Pittsburgh Water and Sewer Authority (PWSA), Engineering and Construction Division*

This application is used for commercial or residential projects that propose connecting to the PWSA water or sewer system or propose changing the amount of PWSA water consumed and/or flows discharged to the PWSA sewer system.

**A. GENERAL INFORMATION**

1. Name of Land Development Project McArdle Townhomes  
 Location of land development project. *Use landmark or address, if available (e.g., north side of Liberty Ave 75 ft. east of intersection of Liberty Ave and 6<sup>th</sup> St.)* 911 Pretense Way, Pittsburgh, PA 15203
  
2. Nature of Development. Check appropriate box and provide total flows.
 

	Total Water Consumption (gpd)	Total Sanitary Flows (gpd)	Total Storm Flows (cfs)
<input checked="" type="checkbox"/> Residential	<u>1,200</u>	<u>1,200</u>	<u>0.42</u>
<input type="checkbox"/> Commercial	_____	_____	_____
  
3. Acreage of development 0.27 acres
  
4. Allegheny County Block & Lot Nos. 3-L-209, 3-L-211
  
5. Ownership of Land Development
 

Name	Address
<u>Penn-Ohio Group</u>	<u>100 South Commons, Suite 102, Pittsburgh, PA 15212</u>
  
6. Applicant (Subdivider, Developer, or Responsible Project Agent)
 

Name <u>Brian Wilkes</u>	Firm/Agency Name <u>Penn-Ohio Group</u>
Address <u>100 South Commons, Suite 102, Pittsburgh, PA 15212</u>	
Telephone _____	Cell <u>330-715-7571</u> Email <u>Brian@penn-ohiogroup.com</u>

**B. WASTEWATER AND STORMWATER FACILITIES**

Provide information on collection and treatment facilities.

**1. COLLECTION SYSTEM**

- a. Number of proposed connections (sanitary and/or storm) 3
- b. Name of existing collection or conveyance system PJ McArdle Roadway
- c. Name of interceptor Main Rivers
- d. Name of treatment facility Woods Run WWTP

**2. SITE PLAN (24" x 36" maximum size accepted)**

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

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

<u>Zachary S. Milanak</u> Applicant Signature	<u>6/25/2019</u> Date
--	--------------------------



Project No. \_\_\_\_\_  
(PWSA USE ONLY)

**C. FALSE SWEARING STATEMENT (To be completed by individual completing the form)**

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

**McArdle Townhomes**

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

**Zach Milanak**

Name (Print)

*Zachary S. Milanak*

Signature

**724-325-1215**

Telephone Number

**Project Engineer II**

Title

3824 Northern Pike, Suite 800, Monroeville, PA 15146

Address

**6/25/2019**

Date

**D. CHAPTER 94 CONSISTENCY (See PA Department of Environmental Protection Current Regulations)**

The following certification is to be completed by the Pittsburgh Water and Sewer Authority agent and agency responsible for completing the (DEP) Chapter 94 report for the collection, conveyance, and treatment facilities.

*The need for planning shall be determined by the P-DEP.*  
I/we certify that the sewerage facilities proposed to serve the new land development described in this Planning Module are in compliance with the provisions of DEP Chapter 94, Municipal Wasteload Management and have adequate capacity to serve the sewage flows to be generated by this development, without creation of an overload or projected overload.

**Collection System**

**Conveyance and Treatment**

*[Signature]*

*9/23/2019*

Signature of Responsible Agent

Date

Pittsburgh Water and Sewer Authority

Signature of Responsible Agent

Date

ALCOSAN

**E. PLANNING AGENCY REVIEW**

**City of Pittsburgh Municipal Planning Agency**

This development/project has been reviewed and:

- is consistent
- is not consistent (objections attached)

with programs of planning for the area of the proposed development administered by this planning agency under the municipalities Planning Code (53 P.S. § 10101-11202).

City of Pittsburgh

Department of City Planning

Zoning Administrator

Date

**Stormwater Management**

This development/project has been reviewed and:

- is consistent
- is not consistent (objections attached)

With programs of planning for the area of the proposed development administered by this planning agency under the current City of Pittsburgh storm water management regulations.

City of Pittsburgh

Department of City Planning

Environmental Planner

Date

**County or Joint County Health Department**

This development/project has been reviewed and:

- approval is recommended
- approval is not recommended (objections attached)

Allegheny County Health

Department

Signature of Responsible Agent

Date

September 23, 2019

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

Dear Mr. Flanagan:


The Pittsburgh Water and Sewer Authority has reviewed the W&S Use Application for the 908 McArdle Roadway Development (Project) located at 908 McArdle Roadway, Pgh, 15146. We believe the Project contains the following flows:

Type of Sanitary Flow	Definition	Flow, gpd
Historical Flow	Peak flow within the past five years	0
Present Flow	Historical Flow to remain in use after Project completion	0
Proposed Flow	New flow associated with the Project	1,200
Total Flow	= Proposed Flow + Present Flow	1,200
Project Flow	= Total Flow – Historical Flow	1,200

**Based on the foregoing, we believe that the Project shall require sewage facilities planning through the PaDEP.** Our determination was based on PaDEP guidelines, as follows:

- Any development with a Project Flow greater than 799 gpd
- Any development on a lot created after May 15, 1972 which has never received a planning module approval
- Any development with a Historical Flow less than or equal to 799 gpd and a Total Flow greater than 799 gpd
- Any development with a Present Flow greater than 799 gpd and a Project Flow greater than 399 gpd

**Please provide a written determination regarding your decision regarding our opinion.** Our review was based on information provided by others under the assumption that this information was accurate and complete. Should you have any questions, please do not hesitate to contact me directly at 412-255-8800 x5532 or RHerring@pgh2o.com.

Sincerely,  
  
 Robert Herring, P.E.  
 Engineering Consultant

Enclosure

cc: Barry King, P.E. – PWSA (via email)  
 Kate Mechler, P.E. – PWSA (via email)  
 Julie Ascioffa – PWSA (via email)  
 Red Swing Group – Applicant (via email)  
 eBuilder File (via email)

Penn Liberty Plaza I  
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F 412.255.2475

[www.pgh2o.com](http://www.pgh2o.com)  
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Customer Service /  
Emergencies:  
412.255.2423

**PENN-OHIO GROUP – McARDLE TOWNHOMES**  
**THREE TOWNHOMES**  
**PROJECT NARRATIVE**

**PROJECT NAME:** Penn-Ohio Group – McArdle Townhomes  
Parcel(s) –3-L-209, 3-L-211  
Pittsburgh, PA 15203

**SITE DESCRIPTION & ANALYSIS LOCATION**

The project involves the construction of three townhomes on an existing lot, currently located at 911 Pretense Way, Pittsburgh, PA 15203. Each townhome will have its own lot and associated address following the subdivision process.

The project site in its existing condition consists of a residential home with attached garage, asphalt paving, walls, and landscaping. The existing block garage will be demolished, with the residential home remaining. Various other features such as walls, pavement, fencing, etc. will also be demolished prior to construction.

The project proposes new sanitary laterals from each townhome to an existing 15” PWSA combined sanitary line within PJ McArdle Roadway. One new water service line is also proposed to serve each home and connect to an existing 8” PWSA water line within PJ McArdle Roadway.

**PROPOSED SEWER FLOWS**

All values derived from PA Code 025 Chapter 73 §73.17. Sewage Flows.

**Multiple family dwelling apartments, including townhouses, duplexes and condominiums**

400 GPD per Unit

3 Units x 400 GPD = 1,200 GPD ✓

400 GPD = 1 EDU

1,200 GPD(1 EDU/400GPD) = 3 EDUs ✓

**TOTAL GPD: 1,200 GPD or 3 EDUs** ✓

**PREVIOUS SEWER FLOWS**

Development area is currently vacant, therefore, no replacement flows available.

**Based on the above calculations, a PADEP Sewage Facilities Planning Module IS ANTICIPATED TO BE REQUIRED.**

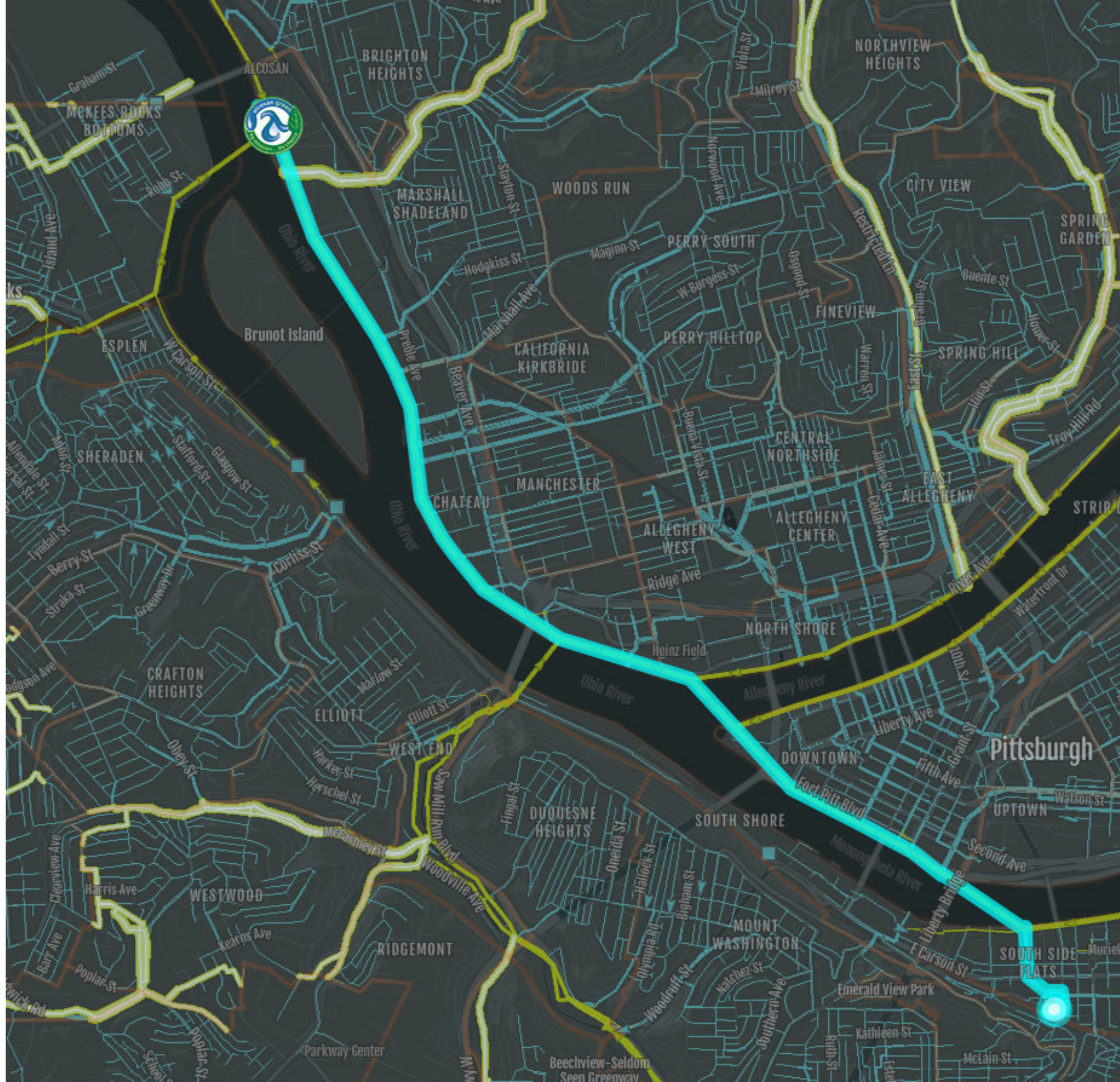
**PROPOSED STORM FLOWS**

Area 1 consists of the proposed building footprint (3,054 SF).

Area 2 consists of the grassed remainder of the lot (978 SF).

AREA NUMBER	C VALUE	FORMULA	AMOUNT OF SW (CFS)
1	0.95	$Q=(0.95)(5.8)(0.07)$	0.38
2	0.40	$Q=(0.40)(5.8)(0.02)$	0.04
SUM			0.42 ✓







**From:** [Flanagan, Thomas](#)  
**To:** [Rob Herring, P.E.](#); [Ryan, Regis](#)  
**Cc:** [Barry King, PE](#); [Kate Mechler, PE](#); [Julie Ascioffa](#); [Zach Milanak](#);  
[Developer\\_Tap\\_in\\_Permits.908\\_McArdle\\_Roadway@docs.e-builder.net](#)  
**Subject:** RE: [External] Planning Module Determination Letter - 908 McArdle Roadway  
**Date:** Monday, September 23, 2019 11:03:47 AM  
**Attachments:** [image001.png](#)

---

This project will require planning.

---

**From:** Rob Herring, P.E. <RHerring@pgh2o.com>  
**Sent:** Monday, September 23, 2019 10:57 AM  
**To:** Flanagan, Thomas <thflanagan@pa.gov>  
**Cc:** Barry King, PE <BKing@pgh2o.com>; Kate Mechler, PE <KMechler@pgh2o.com>; Julie Ascioffa <jascioffa@pgh2o.com>; Zach Milanak <z.milanak@redswinggroup.com>;  
[Developer\\_Tap\\_in\\_Permits.908\\_McArdle\\_Roadway@docs.e-builder.net](#)  
**Subject:** [External] Planning Module Determination Letter - 908 McArdle Roadway

**ATTENTION:** *This email message is from an external sender. Do not open links or attachments from unknown sources. To report suspicious email, forward the message as an attachment to [CWOPA\\_SPAM@pa.gov](mailto:CWOPA_SPAM@pa.gov).*

Tom,

Please refer to the enclosed Planning Module Determination Letter for the 908 McArdle Roadway. Please provide a written response regarding your agreement/disagreement with our determination.

Thanks,



Rob Herring, P.E.  
Consultant - Engineering  
[RHerring@pgh2o.com](mailto:RHerring@pgh2o.com)  
Office: [412.255.8800](tel:412.255.8800)  
Ext:5532

Pittsburgh Water and Sewer Authority  
1200 Penn Ave, Pittsburgh, PA 15222

[www.pgh2o.com](http://www.pgh2o.com) / twitter: [@pgh2o](#) / [LinkedIn](#)

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**PENN-OHIO GROUP – McARDLE TOWNHOMES**  
**THREE TOWNHOMES**  
**PROJECT NARRATIVE**

**PROJECT NAME:** Penn-Ohio Group – McArdle Townhomes  
Parcel(s) –3-L-209, 3-L-211  
Pittsburgh, PA 15203

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The project site in its existing condition consists of a residential home with attached garage, asphalt paving, walls, and landscaping. The existing block garage will be demolished, with the residential home remaining. Various other features such as walls, pavement, fencing, etc. will also be demolished prior to construction.

The project proposes new sanitary laterals from each townhome to an existing 15” PWSA combined sanitary line within PJ McArdle Roadway. One new water service line is also proposed to serve each home and connect to an existing 8” PWSA water line within PJ McArdle Roadway.

**PROPOSED SEWER FLOWS**

All values derived from PA Code 025 Chapter 73 §73.17. Sewage Flows.

**Multiple family dwelling apartments, including townhouses, duplexes and condominiums**

400 GPD per Unit

3 Units x 400 GPD = 1,200 GPD

400 GPD = 1 EDU

1,200 GPD(1 EDU/400GPD) = 3 EDUs

**TOTAL GPD: 1,200 GPD or 3 EDUs**

**PREVIOUS SEWER FLOWS**

Development area is currently vacant, therefore, no replacement flows available.

**Based on the above calculations, a PADEP Sewage Facilities Planning Module IS ANTICIPATED TO BE REQUIRED.**

**PROPOSED STORM FLOWS**

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AREA NUMBER	C VALUE	FORMULA	AMOUNT OF SW (CFS)
1	0.95	Q=(0.95)(5.8)(0.07)	0.38
2	0.40	Q=(0.40)(5.8)(0.02)	0.04
SUM			0.42

# Calculations for McArdle Townhomes Sewage Facilities Planning Module

## 15" Combined Sewer – PJ McArdle Roadway

The base flow depth for the existing PWSA sanitary sewer located in PJ McArdle Roadway was estimated based on the depth of flow observed upon field inspection of the subject pipe. At this location the combined sewer is constructed of vitrified clay ( $n=0.016$ ), is 15 inches (1.25 ft) in diameter and has a slope of approximately 0.0133 ft/ft. The slope of the existing pipe was determined by determining the fall across the length of pipe between the two manholes. This fall (3.21') was then divided by the length (241.19') to obtain the slope value. The depth of flow is assumed to be 2.00 inches (0.17 ft) during dry weather. This estimate is assumed to be representative of the Average Daily Flow. The proposed project anticipates an increase of 1,200 GPD to this pipe (3 units x 400 GPD each).

Dry weather flow calculations were completed as per *PWSA Instructions for Sewer Facility Planning Module Submittal* version 20181212v1, Method 2. Calculations are as follows:

### Design/Permitted Capacity

#### *Design Peak Flow*

Use Manning equation for uniform flow in a pipe to determine the full flow capacity of the pipe.

$$Q=(1.486/n)AR_h^{2/3}S^{1/2}$$

$$Q=V \times A$$

$$V=(1.49/n)R_h^{2/3}S^{1/2}$$

$$R_h=A/P$$

$$A=\text{Cross Sectional Area}=1.23\text{ft}^2$$

$$P=\text{Wetter Perimeter}=3.93\text{ft}$$

$$S=\text{Slope of Channel}=0.0133 \text{ ft/ft}$$

$$R_h=\text{Hydraulic Radius}=0.31\text{ft}$$

$$n=\text{Manning's Roughness Coefficient} = 0.016 \text{ (clay pipe)}$$

$$Q = 6.05 \text{ cfs or } 3,910,217 \text{ GPD}$$

#### *Design Average Flow*

Design average flow is design peak flow divided by peaking factor.

$$Q = 3,910,217 \text{ GPD} / 3.5 = 1,117,204.85 \text{ GPD}$$

#### **Peaking Factor**

3.5 for combined sewers

3 for sanitary sewers

## Present Flows

### *Present Average Flow*

Use Manning equation and measured **average** flow depth to determine present average flow.

Use Manning equation for uniform flow in a pipe to determine the full flow capacity of the pipe.

$$Q = (1.486/n)AR_h^{2/3}S^{1/2}$$

$$Q = V \times A$$

$$V = (1.49/n)R_h^{2/3}S^{1/2}$$

$$R = A/P$$

$$A = \text{Cross Sectional Area} = 0.10 \text{ft}^2$$

$$P = \text{Wetter Perimeter} = 0.93 \text{ft}$$

$$S = \text{Slope of Channel} = 0.0133 \text{ ft/ft}$$

$$R_h = \text{Hydraulic Radius} = 0.10 \text{ft}$$

$$n = \text{Manning's Roughness Coefficient} = 0.016 \text{ (clay pipe)}$$

$$Q = 0.23 \text{ cfs or } 148,653 \text{ GPD}$$

### *Present Peak Flow*

Present peak flow is present average flow **multiplied** by peaking factor

$$Q = 148,653 \text{ GPD} \times 3.5 = 520,285.50 \text{ GPD}$$

## Projected Flows

### *Projected Peak Flow*

Projected peak flow is: (Present Peak flow + Project Flow) x 1.05

$$(520,285.50 \text{ GPD} + 1,200 \text{ GPD}) \times 1.05 = 547,559.78 \text{ GPD}$$

### *Projected Average Flow*

Projected average flow is Projected Peak Flow divided by peaking factor

$$Q = 547,559.78 / 3.5 = 156,445.65 \text{ GPD}$$





October 30, 2019

Mr. Zach Milanak  
Red Swing Group  
3824 Northern Pike, Suite 800  
Monroeville, PA 15146

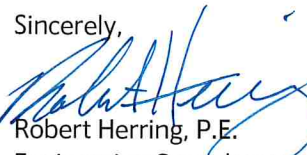
Subject: Pennsylvania Department of Environmental Protection (PaDEP)  
Sewage Facilities Planning Module (SFPM) – Component 3 Form  
Chapter 94 Consistency Determination  
908 McArdle Roadway Development

Dear Mr. Milanak:

Pursuant to your request, we have reviewed the DEP Sewage Facilities Planning Module for the 908 McArdle Roadway Development (Project) located at 908 McArdle Roadway, Pittsburgh, PA 15146. We have determined that the proposed Project will not create a dry-weather hydraulic overload within the next five (5) years for any collection facility owned by the Pittsburgh Water and Sewer Authority (PWSA). Please refer to the enclosed and approved "Section J – Chapter 94 Consistency Determination". A copy of the DEP-approved Sewage Facilities Planning Module shall be provided to the PWSA prior to the issuance of the Tap-In Permit for connection to the existing waterline and/or sewerline.

Please be advised that the Sewage Facilities Planning Module shall not be considered complete by the DEP until approved by the Allegheny County Sanitary Authority (ALCOSAN) and Pittsburgh City Council (Council). For additional information, please contact Michael Lichte (412-734-6209) at ALCOSAN or Leslie Stevens (412-255-2005) at the City of Pittsburgh Law Department. Please note that a City Resolution shall be requested prior to Council approval.

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

Sincerely,  
  
Robert Herring, P.E.  
Engineering Consultant

Enclosures

cc: Barry King, P.E. – PWSA (via email)  
Kate Mechler, P.E. – PWSA (via email)  
Julie Ascioffa – PWSA (via email)  
Thomas Flanagan – DEP (via email)  
Leslie Stevens – City of Pittsburgh Law Department (via email)  
Michael Lichte, P.E. – ALCOSAN (via email)  
eBuilder File (via email)

**To:** Barry King, P.E.

**From:** Robert Herring, P.E.

**Date:** October 23, 2019

**Subject:** DEP Sewage Facilities Planning Module – Component 3  
Chapter 94 Consistency Determination  
Hydraulic Calculation Review  
908 McArdle Roadway Development

Dear Barry,

Pursuant to your request, we have reviewed the DEP Sewage Facilities Planning Module – Component 3 as submitted by Red Swing Group (Applicant) for the 908 McArdle Roadway Development (Project) located at 908 McArdle Roadway, Pittsburgh, PA 15146. In accordance with Title 25 of the Pennsylvania Code, the Pittsburgh Water and Sewer Authority (PWSA) is required to prepare an annual Wasteload Management Report on the collection and conveyance of wastewater relative to available capacity. Our review was conducted to understand how the proposed Project will impact available dry-weather capacity and whether the proposed flows will contribute to a dry-weather hydraulic overload within the next five (5) years. Please note that a dry-weather hydraulic overload shall require denial of the Sewage Planning Module and submission of a Corrective Action Plan to the PaDEP.

Based on the foregoing, we have determined that the proposed Project will not contribute to a dry-weather hydraulic overload within the next five years. Please refer to the enclosed hydraulic calculations for the proposed tie-in location. Upon your approval, please sign the enclosed “Section J - Chapter 94 Consistency Determination” from the DEP Sewage Facilities Planning Module – Component 3, as indicated.

Our review was based on information provided by the Applicant under the assumption that this information was accurate and complete. Should you have any questions, please do not hesitate to contact me directly.

Yours truly,

  
Robert Herring, P.E.  
Engineering Consultant

Enclosures

DEP Sewage Facilities Planning Module  
Chapter 94 Consistency Determination  
Hydraulic Calculations Review

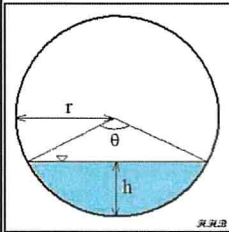
LEGEND:

Input Data

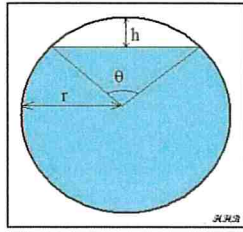
Output Data

PROJECT NAME:	908 McArdle Roadway Development
PROJECT LOCATION:	908 McArdle Roadway, Pittsburgh, PA 15203
TIE-IN LOCATION:	McArdle Roadway - 15" VCP
PWSA REVIEWER:	Robert Herring, P.E.
DATE:	September 23, 2019

**Section A: Manning Equation for Partially Filled Pipes**



Partially Full Pipe Flow Parameters  
(Less Than Half Full)



Partially Full Pipe Flow Parameters  
(More Than Half Full)

Variable	Units	Description
Q	ft <sup>3</sup>	Volumetric flowrate
n	Unitless	Manning Roughness Coeff.
A	ft <sup>2</sup>	Cross-Sectional Area of Flow
R	ft	Hydraulic Radius
S	ft/ft	Slope of Hydraulic Grade Line
P	ft	Wetted Perimeter of "A"
r	ft	Radius
h	ft	Depth of Flow or Headspace
θ	radians	Central Angle

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

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

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

**Section B: Data for Calculations**

Variable	Value	Units
n	0.016	unitless
Material	VCP	
S	0.013	ft/ft
h	0.167	ft
D	1.25	ft
h/D	0.1336	ft/ft
P.F.	3.5	unitless

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

Proposed Project Flows		
Variable	Value	Units
Q <sub>p</sub>	1,200	gpd

**Section C: Design Flow Calculations**

Variable	Description	Definition
Q <sub>d, peak</sub>	Design Peak Flow	full pipe flow conditions
Q <sub>d, avg</sub>	Design Avg. Flow	full pipe flow conditions divided by the peaking factor



Peak Design Flow Calcs		
Variable	Value	Unit
D	1.250	ft
r	0.625	ft
A	1.227	ft <sup>2</sup>
P	3.927	ft
R	0.313	ft
Q <sub>d, peak</sub>	6	cfs
Q <sub>d, peak</sub>	3,922,662	gpd

Average Design Flow Calcs		
Variable	Value	Unit
Q <sub>d, avg</sub>	1,120,761	gpd

#### Section D: Existing Flow Calculations

Variable	Description	Definition
Q <sub>ex, avg</sub>	Existing Avg. Flow	existing flow conditions based on flow depth measurement
Q <sub>ex, peak</sub>	Existing Peak Flow	the average existing flow multiplied by the peaking factor

Existing Average Flow Calcs		
Variable	Value	Unit
D	1.250	ft
r	0.625	ft
θ	1.50	rad
A	0.10	ft <sup>2</sup>
P	0.94	ft
R	0.104	ft
Q <sub>ex, peak</sub>	0	cfs
Q <sub>ex, peak</sub>	150,025	gpd

Existing Peak Flow Calcs		
Variable	Value	Unit
Q <sub>ex, avg</sub>	525,089	gpd

#### Section E: Projected Flow Calculations

Variable	Description	Definition
Q <sub>proj, peak</sub>	Projected Peak Flow	= (Q <sub>ex, peak</sub> + Q <sub>p</sub> ) x 1.05
Q <sub>proj, avg</sub>	Projected Avg. Flow	= Q <sub>proj, peak</sub> ÷ P.F.

Projected Flow Calculations		
Variable	Value	Unit
Q <sub>proj, peak</sub>	552,603	gpd
Q <sub>proj, avg</sub>	157,887	gpd

#### Section F: Compare Results with Applicant's Submission

Variable	PWSA Calcs, gpd	Applic. Calcs, gpd	Difference, gpd	Difference, %
Q <sub>d, peak</sub>	3,922,662	3,910,217	12,445	0%
Q <sub>d, avg</sub>	1,120,761	1,117,205	3,556	0%
Q <sub>ex, peak</sub>	525,089	520,286	4,803	1%
Q <sub>ex, avg</sub>	150,025	148,653	1,372	1%
Q <sub>proj, peak</sub>	552,603	547,560	5,044	1%
Q <sub>proj, avg</sub>	157,887	156,446	1,441	1%

**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 1200 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
<b>Collection</b>	1117204	3910217	148653	520285	156445	547559
<b>Conveyance</b>						
<b>Treatment</b>						

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 Berry King, P.E. / Director of Engineering  
 Agent Signature [Signature] Date 10/29/19





# Letter of Transmittal

One Monroeville Center  
3824 Northern Pike, Suite 800  
Monroeville, PA 15146  
724.325.1215o  
866.295.5226f  
Development Services  
Due Diligence  
Surveyors  
Engineers  
Owners

**To:** ALCOSAN  
3300 Preble Avenue  
Pittsburgh, PA 15233

**Date:** November 4, 2019

**Project No.:** 1697

**Project Name:** McArdle Residential Building  
Pittsburgh, PA 15203

**Attention:** Michael Lichte

**File Code:** 26.00



m-10

Sheet No.: 1 of 1

**We Are Sending:**  Attached  Under Separate Cover via  Overnight  2nd Day  Regular mail the following items:

- Shop Drawings
- Prints
- Sepias
- Mylars
- Samples
- Change Order
- Copy of Letter
- Reports
- Specifications
- Cost Estimates
- Electronic Media

Item	Rev. No.	Quantity	Description	Action
1	-	1	USGS Vicinity Map	C
2	-	1	PNDI Report	C
3	-	1	Project Narrative	C
4	0	1	PWSA Tap-In Plan	C
5	-	1	PWSA Tap Allocation Letter	C
6	-	1	PWSA Water & Sewer Availability Letter	C
7	-	1	PWSA Water & Sewer Use Application	C
8	-	1	Sewage Flow Calculations	C
9	-	1	Sewer Line Path Map	C
10	-	1	PWSA Signed Component 3 & Letter	C
11	-	1	Component 3 for ALCOSAN Signature	F, G

**Action Codes:** A. Action Indicated on Item Transmitted C. For Your Use E. For Information Only G. For Approval  
 B. See Remarks Below D. As Requested F. For Review & Comment

**Remarks:** Michael,

As part of the McArdle Residential Building Project, a Sewage Facilities Planning Module is required. Attached you will find a Sewage Facilities Planning Module – Component 3 Sewage Collection and Treatment Facilities form for your use, along with associated documents. Please review and complete the appropriate sections as necessary.

Should you have any questions or concerns, please don't hesitate to contact me.

Thank you.

Zach Milanak

**Copies:** ; File

Signed:   
11/4/2019



**Members of the Board**

Sylvia C. Wilson  
*Chair Person*

Jack Shea  
Rep. Harry Readshaw  
John Weinstein  
Corey O'Connor  
Brenda L. Smith  
Shannah Tharp-Gilliam, Ph.D.

Arletta Scott Williams  
*Executive Director*

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

Jan M. Oliver  
*Director  
Regional Conveyance*

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

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

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

Jeanne K. Clark  
*Director  
Governmental Affairs*

Joseph Vallarian  
*Director  
Communications*

November 13, 2019

Zach Milanak  
Red Swing Group  
One Monroeville Center  
3824 Northern Pike  
Monroeville, PA 15146

**Re: McArdle Residential Development – City of Pittsburgh  
PA DEP Sewage Facilities Planning Module  
ALCOSAN Regulator Structure M-10-00**

Dear Mr. Milanak:

We have reviewed the Planning Module Component 3 for the referenced project to be located in the City of Pittsburgh. The project will generate an estimated flow of 1,200 GPD in the ALCOSAN Monongahela Interceptor and Woods Run Treatment Plant.

The capacity at the M-10 Regulator Structure is approximately 5.27 MGD. The monitored peak dry weather flow is approximately 0.47 mgd. Dry weather capacity exists for this connection. However, the ALCOSAN Monongahela Interceptor and the Woods Run Treatment Plant do not have the capacity for the flows generated during wet weather periods. This limitation will be addressed as ALCOSAN implements its Clean Water Plan.

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

Sincerely,

**ALLEGHENY COUNTY SANITARY AUTHORITY**

Michael Lichte, P.E.  
Manager of Planning

Attachment

cc: T. Dean (w/o attachment)  
D. Thornton (w/o attachment)  
S. McWilliams (w/o attachment)  
Barry King, PWSA (w/o attachment)  
Tom. Flanagan/PaDEP (w/o attachment)  
Mike Moskorisin/ACHD (w/o attachment)



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 McArdle Residential Building

2. Brief Project Description Project proposes the construction of three (3) townhomes with associated grading, hardscaping, landscaping, utilities, etc.

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

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

**C. SITE INFORMATION** (See Section C of instructions)

**Site (Land Development or Project) Name**

McArdle Residential Building

Site Location Line 1  
911 Pretense Way

Site Location Line 2

Site Location Last Line -- City  
Pittsburgh

State  
PA

ZIP+4  
15222

Latitude  
40.427063

Longitude  
-79.989180

Detailed Written Directions to Site From the waterfront DEP office, take Waterfront Drive to 31<sup>st</sup> Street Bridge. Take PA-28 S, Exit 1A, I-579 S, Armstrong Tunnel and S 10<sup>th</sup> St Bridge/Phillip Murray Bridge to Pretense Way. Turn right onto Pretense Way, property is on the left.

Description of Site Property currently contains a residential property with attached block garage and some paving and landscaping.

**Site Contact (Developer/Owner)**

Last Name	First Name	MI	Suffix	Phone	Ext.
Wilkes	Brian			3307157571	

Site Contact Title	Site Contact Firm (if none, leave blank)
CFA	TW Holdings 12 LLC

FAX	Email
	Brian@penn-ohiogroup.com

Mailing Address Line 1	Mailing Address Line 2
44A Rochester Road	

Mailing Address Last Line -- City	State	ZIP+4
Pittsburgh	PA	15229

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

Last Name	First Name	MI	Suffix
Milanak	Zachary		S

Title	Consulting Firm Name
Project Manager	Red Swing Group

Mailing Address Line 1	Mailing Address Line 2
3824 Northern Pike, Suite 800	

Address Last Line -- City	State	ZIP+4	Country
Monroeville	PA	15146	United States

Email	Area Code + Phone	Ext.	Area Code + FAX
z.milanak@redswinggroup.com	7243251215		8662955226

**E. AVAILABILITY OF DRINKING WATER SUPPLY**

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

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

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

Name of water company: Pittsburgh Water & Sewer Authority

**F. PROJECT NARRATIVE** (See Section F of instructions)

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

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

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

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

**1. COLLECTION SYSTEM**

a. Check appropriate box concerning collection system

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

Clean Streams Law Permit Number \_\_\_\_\_

b. Answer questions below on collection system

Number of EDU's and proposed connections to be served by collection system. EDU's 3

Connections 3

Name of:

existing collection or conveyance system PJ McArdle Roadway - 15" VCP

owner PWSA

existing interceptor Monongahela

owner ALCOSAN

**2. WASTEWATER TREATMENT FACILITY**

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

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

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

Name of existing facility Woods Run

NPDES Permit Number for existing facility 25984

Clean Streams Law Permit Number \_\_\_\_\_

Location of discharge point for a new facility. Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

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

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

Name of Permittee Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Mr. D. L. ...

Agent Signature [Signature] Date 11/13/19

(Also see Section I. 4.)

**G. PROPOSED WASTEWATER DISPOSAL FACILITIES (Continued)**

**3. PLOT PLAN**

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

- a. Existing and proposed buildings.
- 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](http://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](http://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 1200 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
<b>Collection</b>	1117204	3910217	148653	520285	156445	547559
<b>Conveyance</b>						
<b>Treatment</b>						

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 Barry King, P.E. / Director of Engineering  
 Agent Signature [Signature] Date 10/29/19

**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 1200 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	1117204	3910217	148653	520285	156445	547559
Conveyance		5.27	0.39	0.47	0.39	0.47
Treatment	216.1	250mgd	216.1	250mgd	202.9	250mgd

3. Collection and Conveyance Facilities

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

YES NO

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

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

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

- b. Collection System

Name of Agency, Authority, Municipality \_\_\_\_\_

Name of Responsible Agent \_\_\_\_\_

Agent Signature \_\_\_\_\_ Date \_\_\_\_\_



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

c. Conveyance System

Name of Agency, Authority, Municipality ALCOSAN

Name of Responsible Agent Mark D Lucher

Agent Signature [Signature]

Date 11/13/19

4. Treatment Facility

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

YES NO

a.  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 Mark D Lucher

Agent Signature [Signature]

Date 11/13/19

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

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

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

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

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

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

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

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



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

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

**O. SEWAGE MANAGEMENT** (See Section O of instructions)

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

Yes No

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

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

2. Project Flows \_\_\_\_\_ 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.

Zachary S. Milanak

Name (Print)

*Zachary S. Milanak*

Signature

Project Manager

Title

10/7/2019

Date

3824 Northern Pike, Suite 800, Monroeville, PA 15146

Address

724-325-1215

Telephone Number

**R. REVIEW FEE** (See Section R of instructions)

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

- I request DEP calculate the review fee for my project and send me an invoice for the correct amount. I understand DEP's review of my project will not begin until DEP receives the correct review fee from me for the project.
- I have calculated the review fee for my project using the formula found below and the review fee guidance in the instructions. I have attached a check or money order in the amount of \$150 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.

$$\#3 \text{ _____ Lots (or EDUs) X } \$50.00 = \$ \underline{150}$$

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)

**Alternative Sewage Facilities Analysis (Section H of Planning Module Section 3)**

1. Describe the chosen disposal method, its location, the daily flow proposed and if the method is an interim method (to be replaced by the ultimate method in 5 years or less), or is an ultimate method (to serve the development in the long term, for 5 years or more). Provide a description of how the chosen method will provide compliance with effluent limitations. Also provide the number of lots or EDU's that will be served.

ALCOSAN Treatment Facility. The proposed use will result in 3.00 EDUs.

2. Describe the types of land uses adjacent to the project area (Agricultural, Residential, Commercial etc.) and the type of sewage disposal method serving each of those land uses. Properties adjacent to the project must be described by indicating present land uses and zoning designations. Describe the sewage disposal methods being used for each of those adjacent land uses (onlot, municipal treatment, etc.) and if those methods are intended for interim or ultimate use.

The immediate surrounding area is predominately residential. Sanitary flows from the existing and proposed location and surrounding areas flow into the same PWSA trunk lines.

3. Indicate if the sewage facilities described in (2) are in need of improvement due to noncompliance with effluent limitations, high rates of on-lot malfunction or overloaded public sewers. Is there a potential for a combined public/private project?

No potential for combined public/private project.

4. Determine and indicate what sewage disposal method is proposed for the development area in the municipality's Official Sewage Facilities Plan (such as: on-lot disposal systems, public sewers, etc.).

Public sewers (ALCOSAN).

5. Describe any existing sewage management program(s) in the area, and/or any sewage management program(s) that this project would be required to participate in, and that program's requirements.

ALCOSAN's Wet Weather Plan (WWP).

6. Describe any potential alternative sewage disposal methods that are available for the project. Consider all reasonable possibilities for sewage disposal, such as a stream discharge or an alternate method of land disposal. The municipality, delegated local agency or DEP may also require consideration of particular types of sewage disposal methods in the analysis. The chosen method must assure that applicable water quality standards are attained.

None.

7. Describe why the proposed method was chosen over any of the other methods described in the alternatives analysis. Environmental, administrative, and financial concerns may be addressed. Also indicate how the chosen method will guarantee adequate sewage disposal, including compliance with applicable water quality standards and effluent limitations, for the development in both the short-term (up to 5 years) and long-term (beyond 5 years) by describing the adequacy of the proposed facilities (organic and hydraulic loading) and the ability of the facility to accept additional flows or loads.

NA

8. Indicate who will be the owner of the facility, and who will be responsible for operation and maintenance of the facility and ultimately compliance with applicable water quality standards and effluent limitations.

Public sewers (ALCOSAN).

9. Finally, the applicant may use the narrative to describe any special considerations or provide any additional information that supports the choice of disposal method. The alternatives analysis must be attached to the planning module package for review by the municipality and approving agency.

NA



COUNTY OF



RICH FITZGERALD  
COUNTY EXECUTIVE

ALLEGHENY

RECEIVED  
11/23/19

November 19, 2019

Zach Milanak  
Red Swing Group  
One Monroeville Center  
3824 Northern Pike  
Monroeville, PA 15146

**RE: SEWAGE FACILITIES PLANNING MODULE; McArdle Residential Building  
City of Pittsburgh, ALLEGHENY COUNTY**

Dear Mr. Milanak:

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 November 15, 2019. The project proposes the following:

Project Description:	McArdle Residential Building. Proposing the construction of three townhouses (with associated grading, hardscaping, landscaping, utilities, etc.) by subdividing the existing lot currently located at 911 Pretense Way in the City of Pittsburgh, Allegheny County. The existing block garage will be demolished, the residential home will remain, and each new townhome will have its own lot and associated address following the subdivision process.
Sewage Flow:	1,200 GPD
Conveyance:	The flow from this site will be conveyed to the Pittsburgh Water & Sewer Authority (PWSA) collection system to ALCOSAN POC M-10 to the Monongahela interceptor and then to the ALCOSAN Treatment Plant at Woods Run.
Sewer's Owner:	PWSA (collection) and ALCOSAN (interceptor)
Name of Sewage Treatment Plant:	ALCOSAN

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



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

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



In addition, it should be noted that the approval of this sewage facilities planning module does not include approval of pipe size and/or type. Approval for pipe size and/or type must be obtained by filing a specific plumbing plan with the ACHD's Plumbing Section. If you should have any questions relative to ACHD's plumbing requirements, you can call Ivo Miller, the Plumbing Program Manager at 412-578-8393.

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

Sincerely,

A handwritten signature in blue ink that reads "Freddie Fields". The signature is cursive and fluid.

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

FF/cb  
Enclosure

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



## SEWAGE FACILITIES PLANNING MODULE 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

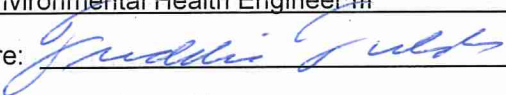
McArdle Residential Building

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

1. Date plan received by county or joint county health department November 15, 2019Agency name Allegheny County Health Department (ACHD)2. Date review completed by agency November 19, 2019

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

Yes No

1. Is the proposed plan consistent with the municipality's Official Sewage Facilities Plan?  
If no, what are the inconsistencies? \_\_\_\_\_
2. Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?  
If yes, describe \_\_\_\_\_
3. Is there any known groundwater degradation in the area of this proposal?  
If yes, describe \_\_\_\_\_
4. The county or joint county health department recommendation concerning this proposed plan is as follows: ACHD recommends approval. See attached letter.
5. Name, title and signature of person completing this section:  
Name: Freddie Fields  
Title: Environmental Health Engineer III  
Signature:   
Date: November 19, 2019  
Name of County Health Department: ACHD  
Address: 3901 Penn Avenue, Building #5, Pittsburgh, PA 15224-1318  
Telephone Number: 412-578-8046

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

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

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

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



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER

DEP Code #:

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

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

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

Project Name 11697 - mcArdle Residential

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

1. Date plan received by municipal planning agency 11-22-19
2. Date review completed by agency 11-22-19

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

- | Yes                                 | No                                  |   |
|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1. Is there a municipal comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101, <i>et seq.</i> )?               |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 2. Is this proposal consistent with the comprehensive plan for land use?<br>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?<br>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?<br>If yes, describe impacts _____            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 6. Will any known historical or archaeological resources be impacted by this project?<br>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?<br>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?<br>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: <u>Martina Battistone</u>		
Title: <u>senior Environmental Planner</u>		
Signature: <u>MBattistone</u>		
Date: <u>11-22-19</u>		
Name of Municipal Planning Agency: <u>Dept. City Planning, Pittsburgh</u>		
Address: <u>200 Ross St. 4<sup>th</sup> Floor Pittsburgh PA</u>		
Telephone Number: <u>(412) 255-2516</u>		

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

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

September 30, 2019

Mr. Brian Wilkes  
Penn-Ohio Group  
100 South Commons, Suite 102  
Pittsburgh, PA 15212

**RE: McArdle Townhomes  
911 Pretense Way - 15203  
Water & Sewer Tap-in Plans  
First Review**

Dear Mr. Wilkes,

The Pittsburgh Water and Sewer Authority (PWSA) is in receipt of the above referenced project. There are some comments and/or corrections required on the tap in plan. Refer to the comments listed below along with the marked-up plans.

1. Update the PWSA Approval Block as shown in the plans.
2. As discussed with Zach, meter crocks will be required to house the meter. Show the location on the plan and the appropriate meter crock and meter details.
3. Are all the sewer connections new? List the station locations of each new tap. Provide CCTV video and report and show the existing taps on the tap-in plans. Existing taps adjacent to the property need to be terminated.
4. There is no mention of a storm sewer on the plans. Prior to connecting to PWSA Combination sewer line, sewer lateral should be separated (see PWSA detail ST-5).
5. Check with fire code for confirmation but usually 3 or more townhomes with shared walls require a First Sprinkler system for each unit. Provide a detail of the fire sprinkler system. Label the system designed (13-R or 13-D). A hydrant flow test will be required.
6. Refer to the marked-up plans for any additional comments and/or corrections.

Make the noted corrections and resubmit electronically for further review.



If you have any questions, please feel free to contact me at (412) 255-8800 ext. 5512.

Sincerely,

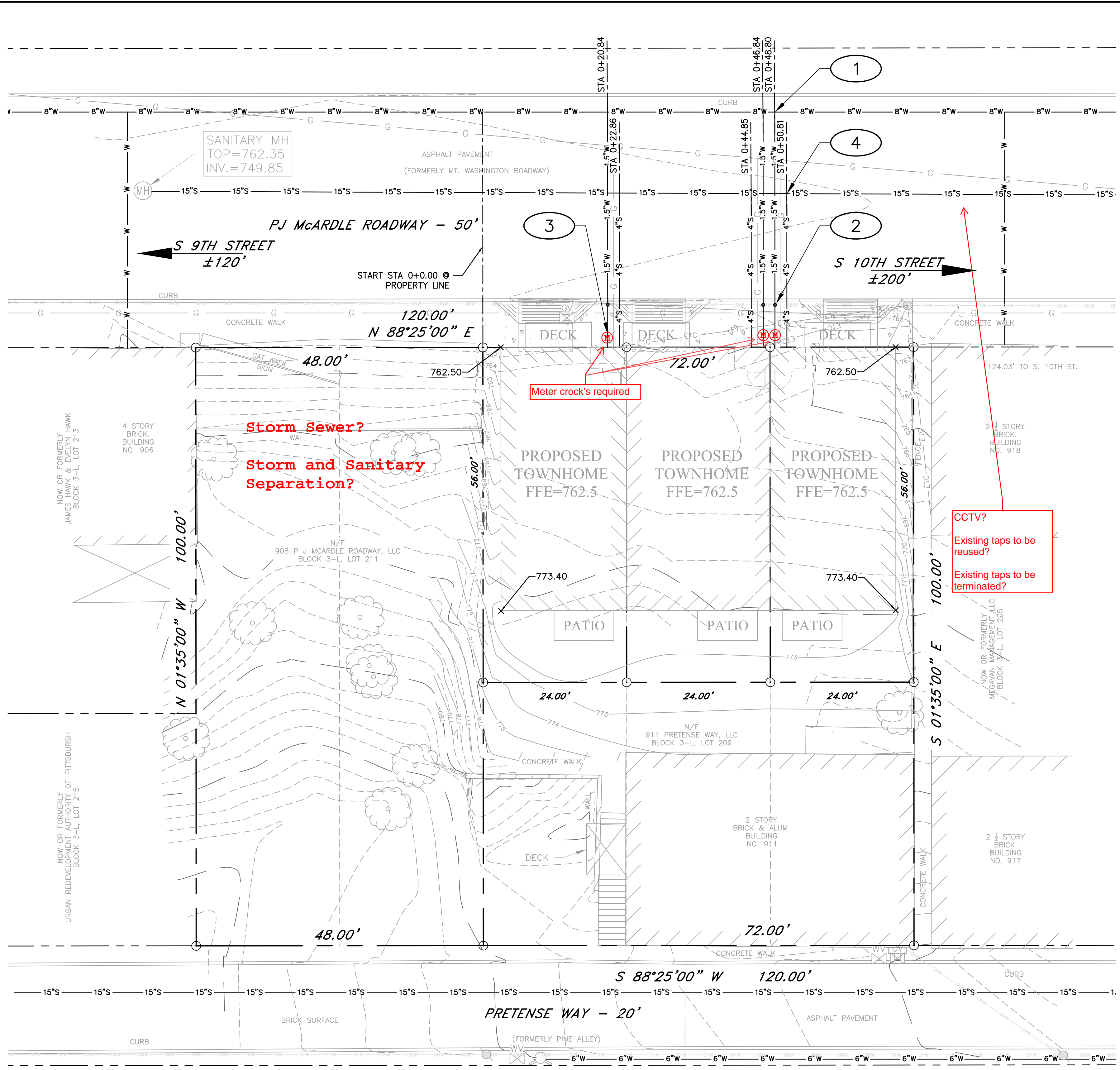
Brett McAllister  
Associate Project Manager

BRM

Attachment

Cc: PWSA File





**SITE UTILITY NOTES**

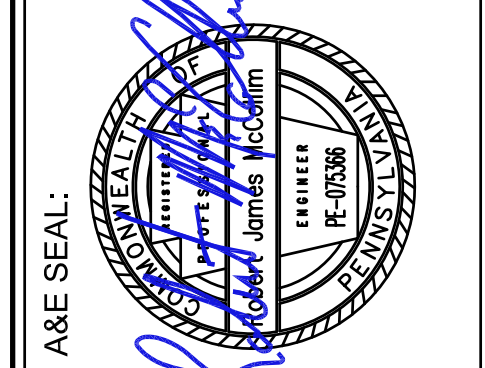
- 1 PROPOSED WATER TAP INTO EXISTING PWSA 8" WATER LINE (TYP.). REFER TO DETAILS WS-5NT, WS-C, AND WCB-1; SHEET TP1.2. (STA. 0+20.84, 0+46.84, 0+48.80)
- 2 PROPOSED CURB BOX. REFER TO DETAIL WS-C1 SHEET TP1.2.
- 3 PROPOSED DOMESTIC WATER LINE, INTERNALLY METERED. REFER TO MEP PLANS FOR ADDITIONAL INFORMATION.
- 4 PROPOSED SANITARY CONNECTION TO EXISTING PWSA 15" COMBINATION SEWER. REFER TO DETAILS SLD-1, ST-2, AND ST-7; SHEET TP1.2. (STA. 0+22.86, 0+44.85, 0+50.81).

NOTE: A PENNDOT HIGHWAY OCCUPANCY PERMIT WILL BE REQUIRED FOR ANY WORK IN STATE ROUTES.

**LEGEND**

- PROPERTY LINE
- ADJOINER LINE
- RIGHT OF WAY LINE
- FENCE
- 1 FT. CONTOUR LINE
- 5 FT. CONTOUR LINE
- OVERHEAD WIRES
- UNDERGROUND ELEC.
- 4" GAS SERVICE LINES
- 6" GAS SERVICE LINES
- 12" WATER SERVICE LINES
- 8" WATER SERVICE LINES
- 4" WATER SERVICE LINES
- 2" WATER SERVICE LINES
- 12" SANITARY SEWER LINES
- 4" SANITARY SEWER LINES
- 4" SANITARY SEWER LINES
- 18" COMBO. SEWER
- ▽ PR. THRUST BLOCK
- ✕ PR. VALVE
- ▭ CATCH BASIN
- ⊙ MANHOLE
- ⊙ GAS VALVE
- ⊙ PROPERTY CORNER
- ⊙ WATER VALVE
- ⊙ UTILITY POLE
- ⊙ WATER BOX
- ⊙ FIRE HYDRANT
- PR. CURB STOP

WATER AND SEWER FLOW DATA	
WATER CONSUMPTION	1,200 GPD
SANITARY FLOW	1,200 GPD
STORM FLOW	0.42 CFS
APPLICATION NUMBER (ASSIGNED BY PWSA)	
DEP APPROVAL DATE (ASSIGNED BY PWSA)	



ACKNOWLEDGEMENT OR SIGN-OFF BY ENGINEER OR CONSULTANT IS REQUIRED FOR ALL CHANGES TO THE ORIGINAL DRAWINGS. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY TO PENN-OHIO GROUP AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED. ANY REUSE OR DISCLOSURE OF THIS INFORMATION WITHOUT THE WRITTEN PERMISSION OF PENN-OHIO GROUP IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE WORKING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT.

**WATER SERVICE**  
 PWSA  
 1200 PENN AVE  
 PITTSBURGH, PA 15222  
 PHONE: (412) 255-8800

**STORM SEWER**  
 PWSA  
 1200 PENN AVE  
 PITTSBURGH, PA 15222  
 PHONE: (412) 255-8800

**SANITARY SEWER**  
 PWSA  
 1200 PENN AVE  
 PITTSBURGH, PA 15222  
 PHONE: (412) 255-8800

**DEVELOPER**  
 PENN-OHIO GROUP  
 100 SOUTH COMMONS, SUITE 102  
 PITTSBURGH, PA 15212  
 CONTACT: BRIAN WILKES  
 PHONE: (330) 715-7571

**Hydrant Flow Test**

**3-Townhomes will require Sprinklers  
 13-D or 13-R Fire System Design**

**THE PITTSBURGH WATER & SEWER AUTHORITY**

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

\*DISCLAIMER: Signatures / Approval by PWSA are for the physical connections(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 demands.

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

Project Coordinator/Project Management Engineer/Reviewer	Date
Approval	
Director of Operations Chief	Date
Director of Engineering and Construction	Date

**PENN - OHIO GROUP**

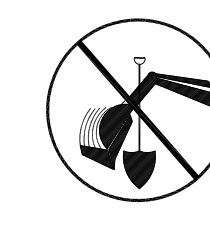
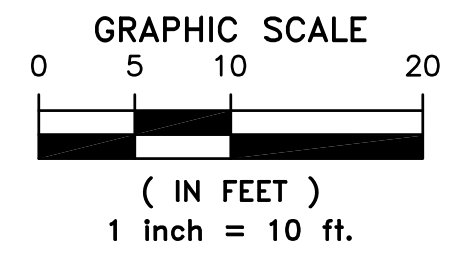
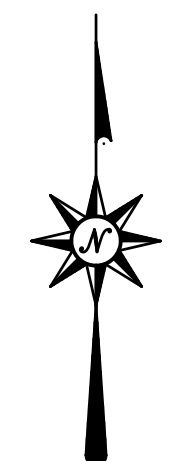
PENN-OHIO GROUP  
 McARDLE TOWN HOMES  
 911 PRETENSE WAY & 908 PJ McARDLE ROADWAY  
 CITY OF PITTSBURGH - 17TH WARD  
 ALLEGHENY COUNTY

SCALE: SHEET 1 OF 2 ACCESSION NO. C- DATE: 1 OF 2 CASE NO.

**PENN-OHIO GROUP**  
**McARDLE TOWN HOMES**  
 911 PRETENSE WAY & 908 PJ McARDLE ROADWAY  
 CITY OF PITTSBURGH - 17TH WARD  
 ALLEGHENY COUNTY

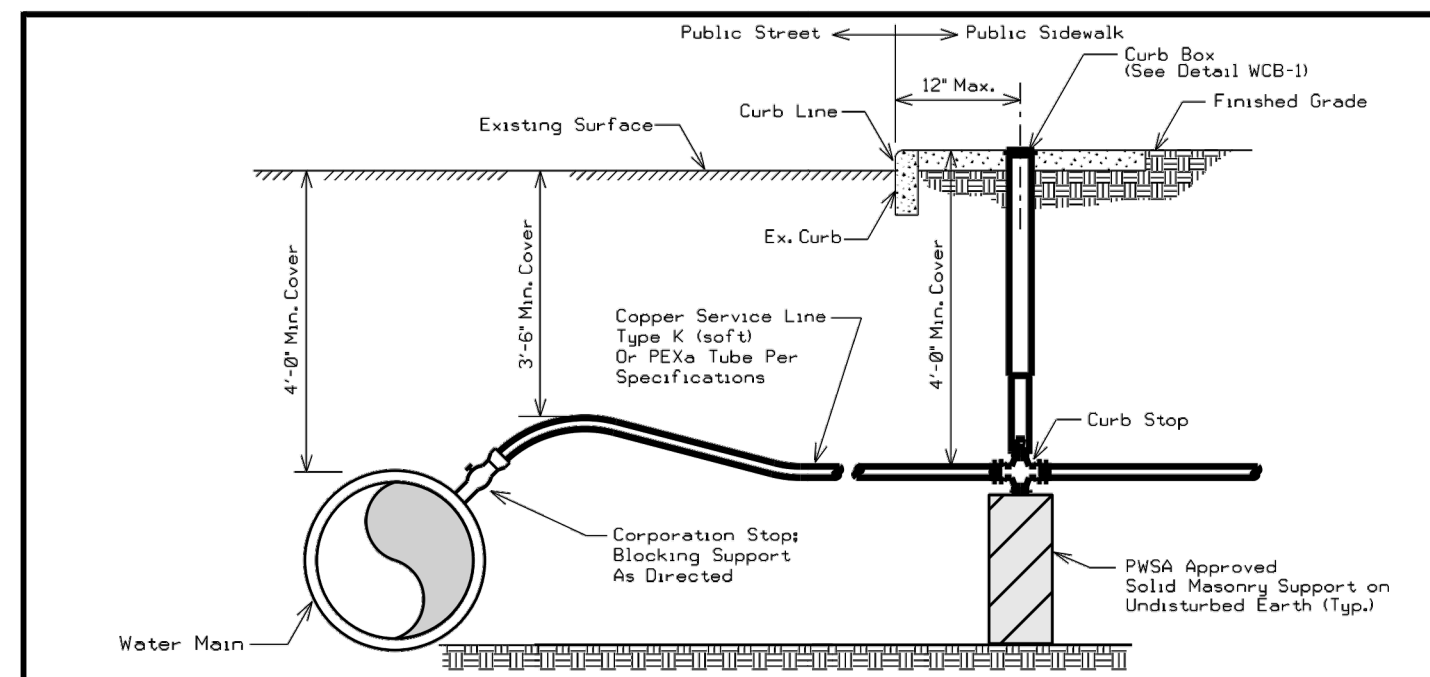
REVISIONS:	MARK	DATE	DESCRIPTION
0		6/27/2019	ISSUED FOR REVIEW

PROJECT NO:	1697
SCALE:	AS SHOWN
DATE:	1/2/2019
DESIGNED BY:	ZSM
DRAWN BY:	MJN
CHECKED BY:	RLS
SHEET TITLE:	TAP-IN PLAN
SHEET NO.	TP1.1

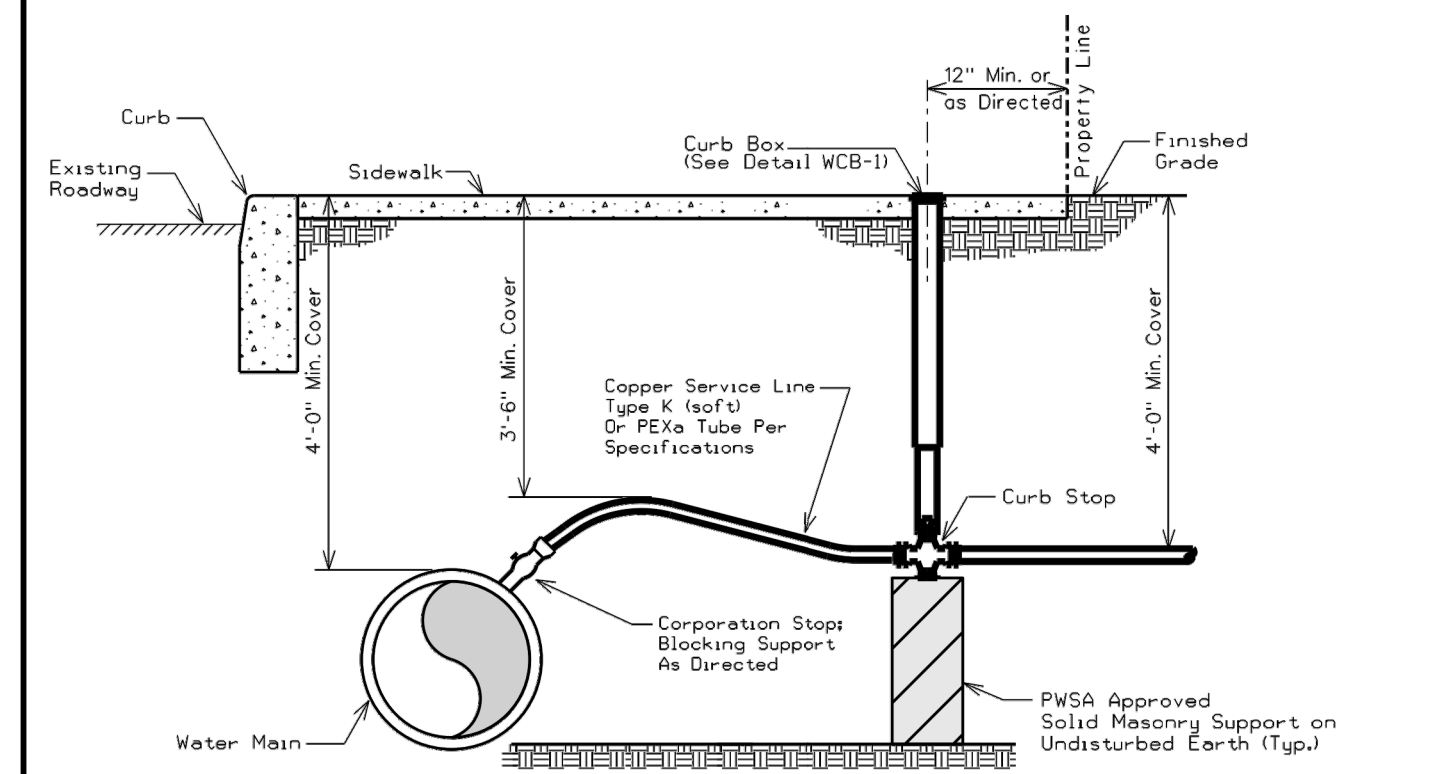


CALL BEFORE YOU DIG!  
 PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS NOTICE IN DESIGN STAGE.  
 STOP CALL PENNSYLVANIA ONE CALL SYSTEM, INC. 1-800-242-1776





SECTION - 1' AND 1-1/2' INSTALLATION STREET MAIN



SECTION - 1' AND 1-1/2' INSTALLATION SIDEWALK MAIN

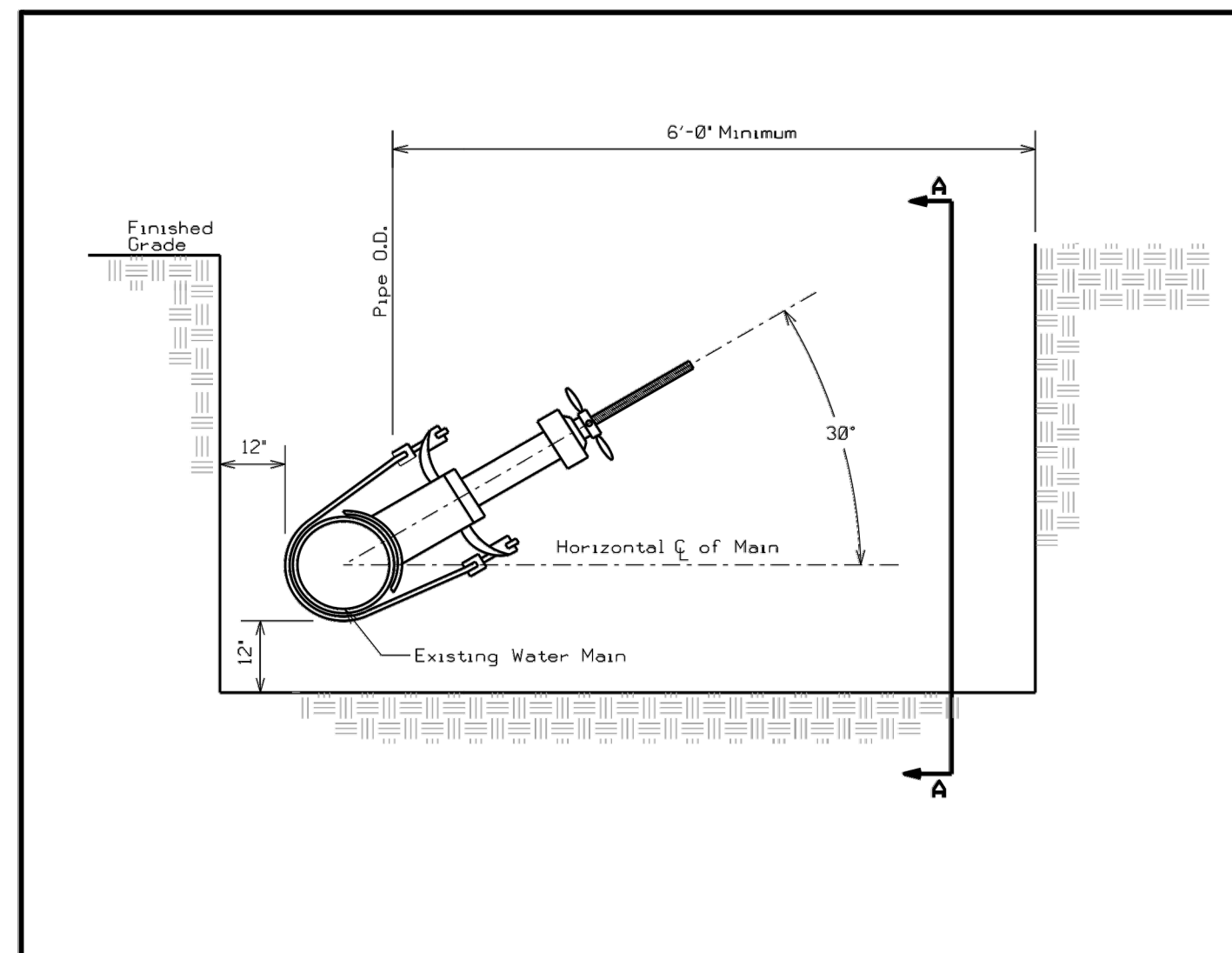
- NOTES:
- Only one PWSA meter will be installed per each service tap.
  - Domestic Service is 1/2" min. from PWSA main to meter.
  - For PE-Xa pipe installation, corporation and curb stops shall be compression type fitting and shall have tracer wire installed per manufacturer's specifications.
  - Polyprep all metallic pipe, fittings and valves.

REVISIONS

1. MSR	4-23-01	5. LRC	1-31-14
2. MAC	9-1-05		
3. MAC	8-10-07		
4. MAC	1-2-08		

Approved by: **PGH<sub>2</sub>O** The Pittsburgh Water and Sewer Authority

Scale: N.T.S. Supplemental Detail Drawing: **WS-5NT**



SECTION A-A

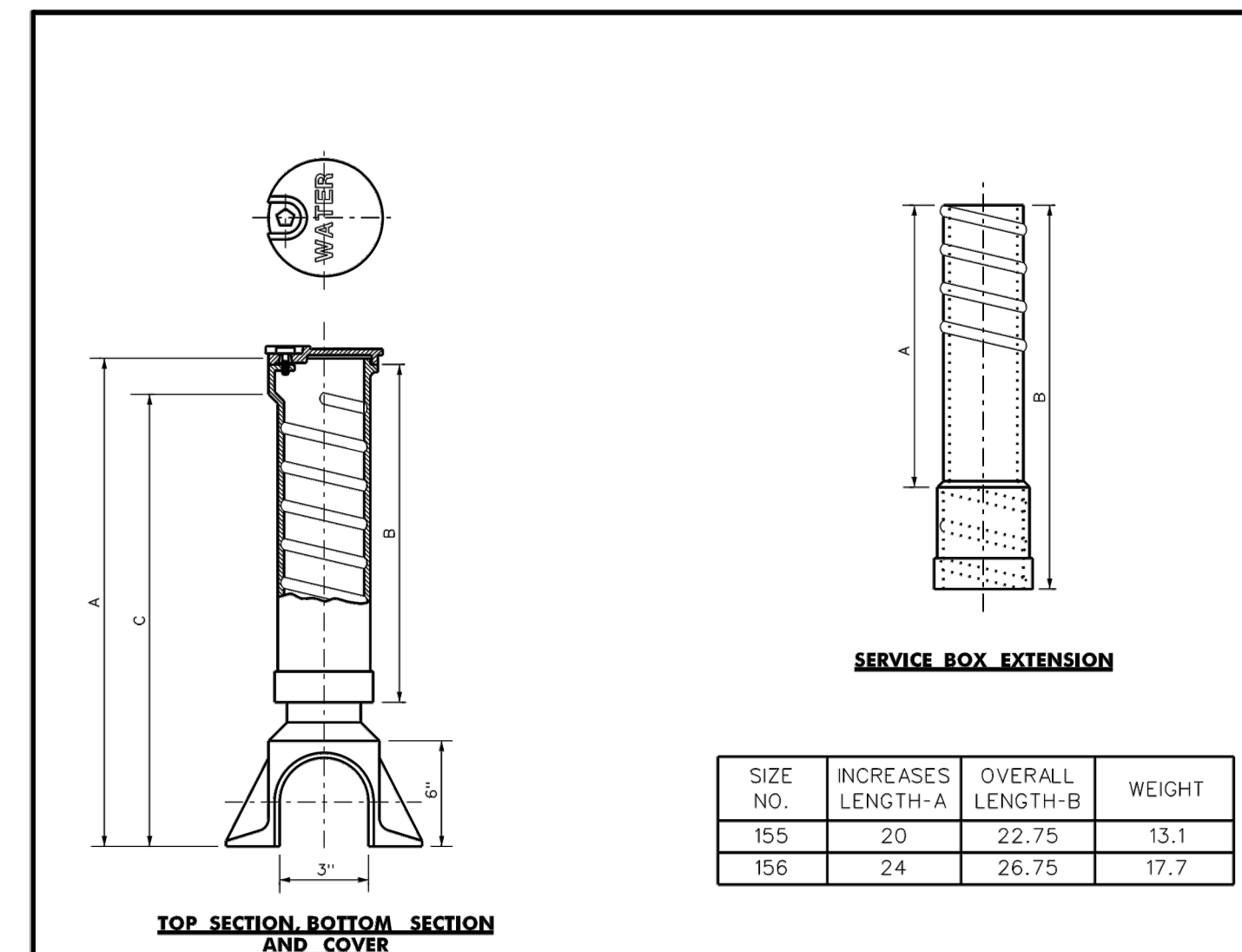
- NOTE:
- PWSA will make the actual tap.
  - Excavation and shoring required as per current OSHA standards.

REVISIONS

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

Approved by: **PGH<sub>2</sub>O** The Pittsburgh Water and Sewer Authority

Scale: N.T.S. Supplemental Detail Drawing: **WS-C**



SIZE NO.	EXTENSION RANGE - A	TOP SECTION & COVER NO.	TOP SECTION & COVER WEIGHT	BOTTOM SECTION NO.	BOTTOM SECTION WEIGHT	TOTAL WEIGHT		
2	24" - 39"	9	19.6	18	2	14.1	23.0	32.7

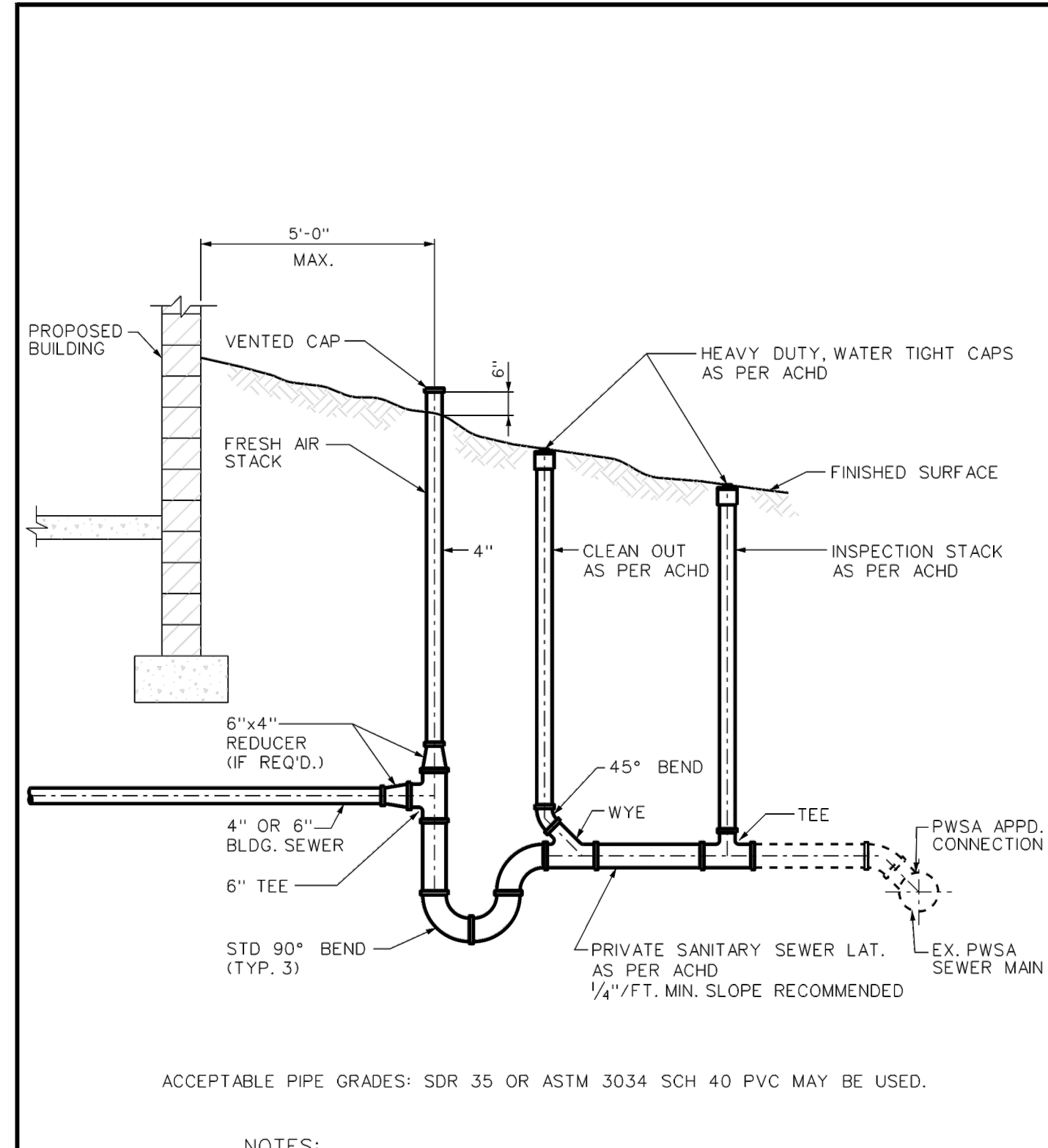
- NOTES:
- SERVICE BOX SHALL BE BINGHAM & TAYLOR BUFFALO STYLE (3" OLD STYLE), No. 4930 OR APPROVED EQUAL.
  - DIMENSIONS IN INCHES; WEIGHT IN POUNDS.
  - LABELLED "WATER" ON THE COVER.

REVISIONS

1. MAC	3-12-04		
2. MAC	8-12-07		
3. MAC	12-28-07		
4. LRC	1-31-14		

Approved by: **PGH<sub>2</sub>O** The Pittsburgh Water and Sewer Authority

Scale: N.T.S. Supplemental Detail Drawing: **WCB-1**



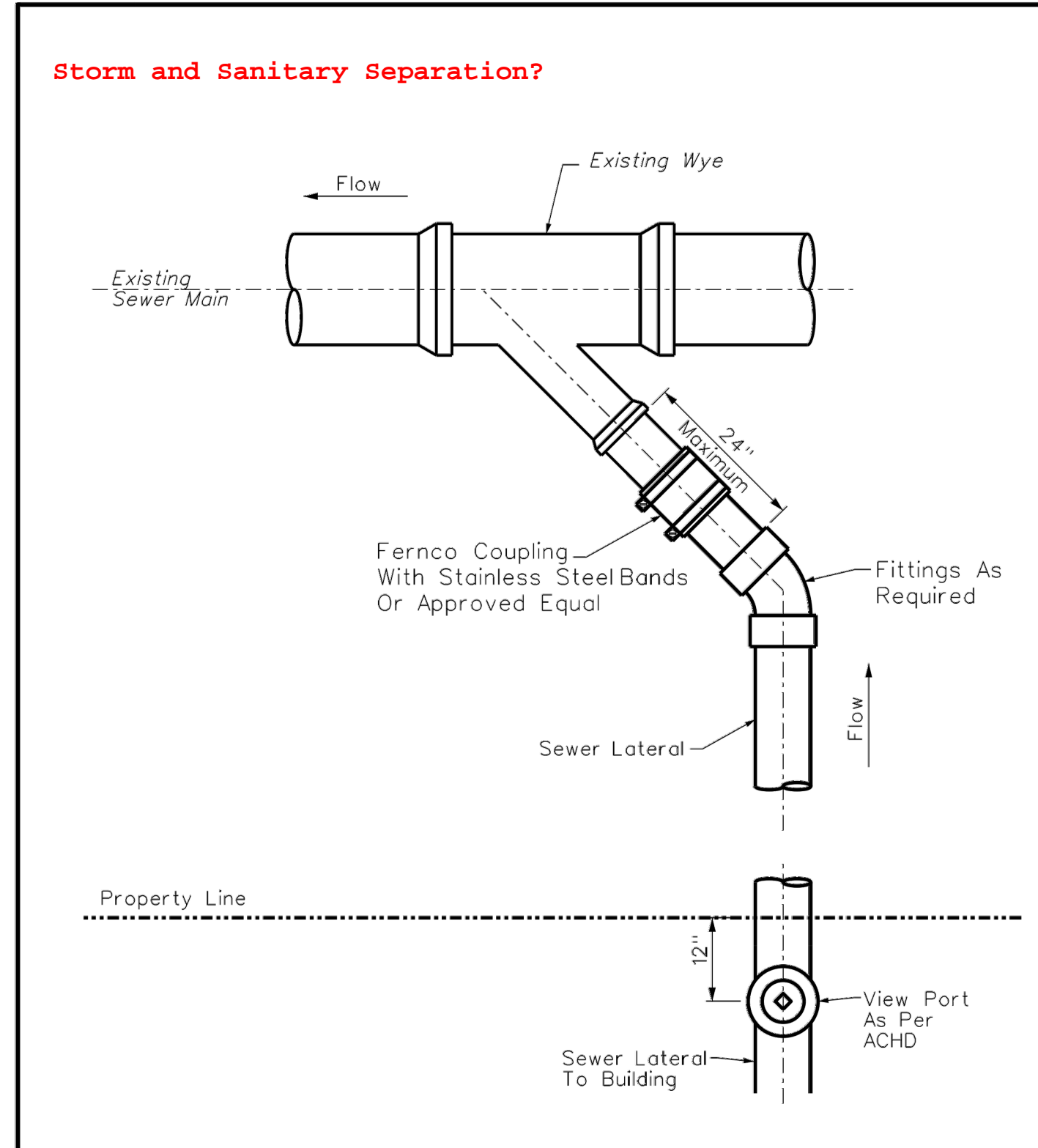
- NOTES:
- CONTRACTOR MUST CONTACT PWSA FOR SEWER INSPECTION PRIOR TO BACKFILLING TAP CONNECTION ON SEWER MAIN.
  - 4" DIA. PIPE MAY BE USED ON SEPARATE SANITARY CONNECTION.

REVISIONS

1. MSR	4-18-01		
2. LRC	1-31-14		

Approved by: **PGH<sub>2</sub>O** The Pittsburgh Water and Sewer Authority

Scale: N.T.S. Supplemental Detail Drawing: **SLD-1**



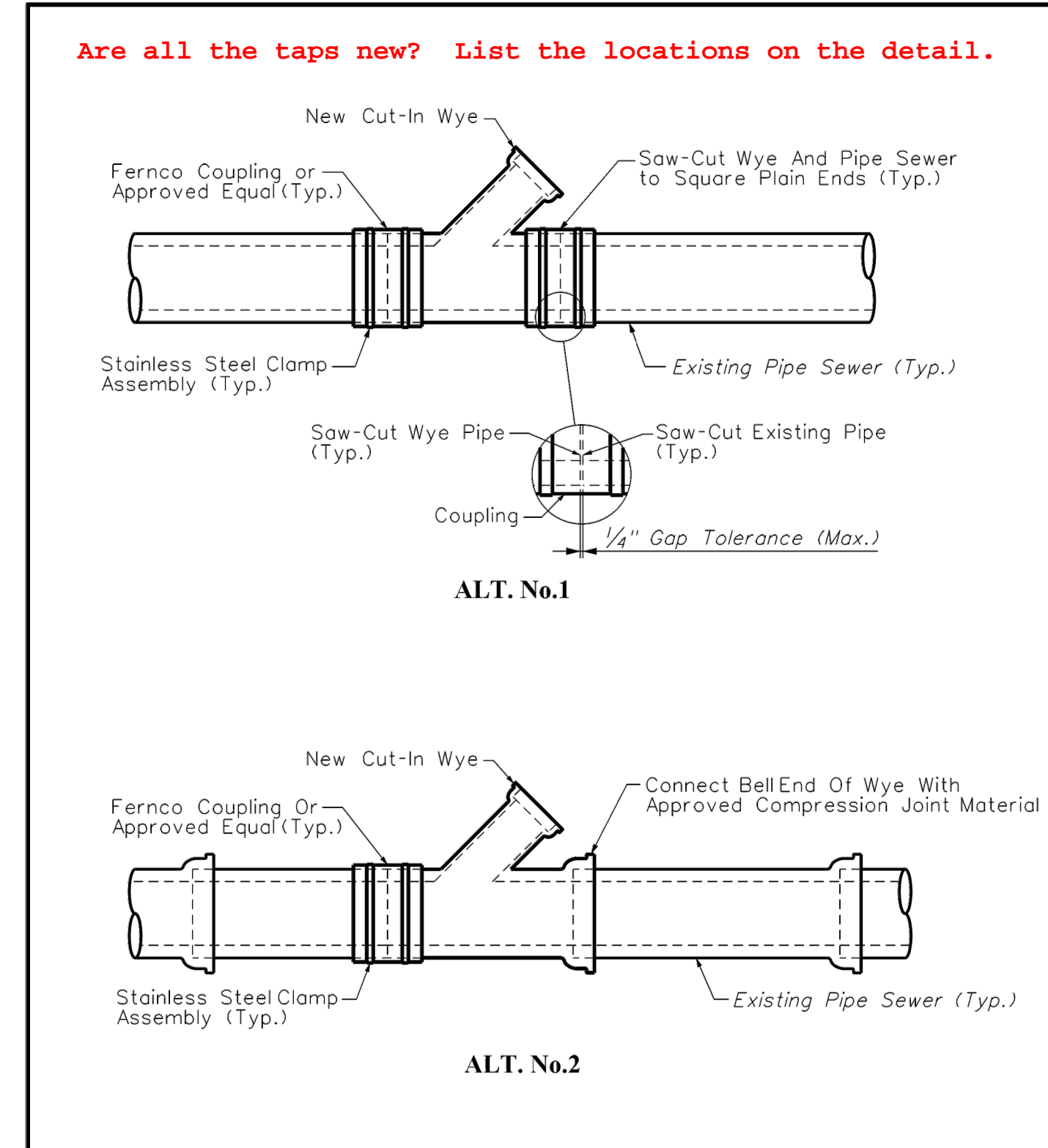
PLAN VIEW

REVISIONS

1. MSR	4-18-01		
2. LRC	1-31-14		

Approved by: **PGH<sub>2</sub>O** The Pittsburgh Water and Sewer Authority

Scale: N.T.S. Supplemental Detail Drawing: **ST-2**



- NOTES:
- SAW-CUT EXISTING PIPE SEWER, NO BREAK-IN OR HAMMER CONNECTIONS PERMITTED. JOINTS MUST BE INSPECTED BY PWSA BEFORE AND AFTER FLEXIBLE COUPLINGS ARE INSTALLED.
  - WYE MATERIAL WILL MATCH SEWER MAIN MATERIAL.
  - PIPE MAIN I.D. OF NEW WYE SECTION WILL MATCH I.D. OF EXISTING PIPE SEWER MAIN.
  - WYE LOCATION WILL BE LOCATED AT 2 O'CLOCK OR 10 O'CLOCK ON BARREL OF PIPE SEWER.

REVISIONS

1. JLC	8-14-02		
2. MAC	1-15-04		
3. LRC	1-31-14		

Approved by: **PGH<sub>2</sub>O** The Pittsburgh Water and Sewer Authority

Scale: N.T.S. Supplemental Detail Drawing: **ST-7**

WATER AND SEWER FLOW DATA

WATER CONSUMPTION	1,200 GPD
SANITARY FLOW	1,200 GPD
STORM FLOW	0.42 CFS
APPLICATION NUMBER (ASSIGNED BY PWSA)	
DEP APPROVAL DATE (ASSIGNED BY PWSA)	

Crock and Meter Detail

THE PITTSBURGH WATER & SEWER AUTHORITY

APPROVAL FOR:

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

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

Project Coordinator/Project Management Engineer/Reviewer \_\_\_\_\_ Date \_\_\_\_\_

Approval \_\_\_\_\_

Director of Operations \_\_\_\_\_ Date \_\_\_\_\_

Chief \_\_\_\_\_

Director of Engineering and Construction \_\_\_\_\_ Date \_\_\_\_\_

REVISIONS:

MARK	DATE	ISSUED FOR REVIEW	DESCRIPTION
0	6/27/2019		

PENN - OHIO GROUP

911 PRETENSE WAY & 908 PJ McARDLE ROADWAY  
CITY OF PITTSBURGH - 17TH WARD  
ALLEGHENY COUNTY

TAP-IN DETAILS

SCALE: SHEET ACCESSION NO. C-  
DATE: 2 OF 2 CASE NO.

SHEET NO. TP1.2

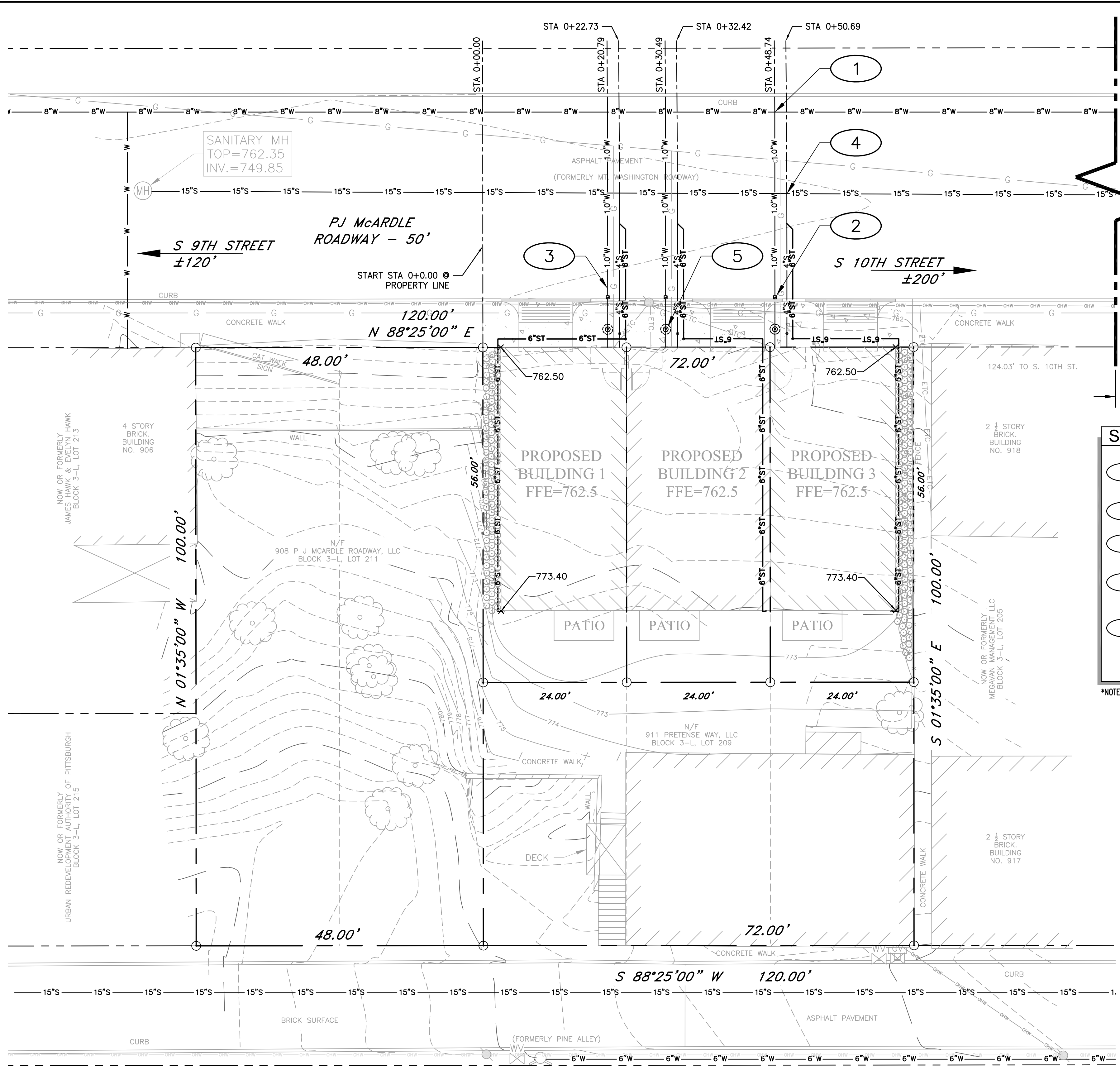
**RED SWING GROUP**  
ONE MONROEVILLE CENTER  
3824 NORTHERN PIKE, SUITE 800  
MONROEVILLE, PA 15146  
OFFICE: 724-325-1216

A&E SEAL: [Professional Engineer Seal]

ACKNOWLEDGMENT OR "SIGN-OFF" BY ARCHITECT OR ENGINEER IS REQUIRED FOR ALTERATION OF LEASE TERMS. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE PROJECT FOR WHICH IT WAS PREPARED IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE WORKING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT.

**PENN-OHIO GROUP**  
McARDLE TOWN HOMES  
911 PRETENSE WAY & 908 PJ McARDLE ROADWAY  
CITY OF PITTSBURGH - 17TH WARD  
ALLEGHENY COUNTY





WATER AND SEWER FLOW DATA	
WATER CONSUMPTION	1,200 GPD
SANITARY FLOW	1,200 GPD
STORM FLOW	0.42 CFS
APPLICATION NUMBER (ASSIGNED BY PWSA)	
DEP APPROVAL DATE (ASSIGNED BY PWSA)	

HYDRANT FLOW TEST DATA (REQUIRED FOR TAPS LARGER THAN 1-INCH)		
Date of Test:	xx / xx / xx	Hydrant Permit No.: xx
Test Performed By:	xxx	
Hydrant Number	FLOW HYDRANT	PRESSURE HYDRANT
Location	---	---
Static Pressure (psi)	xxx	---
Residual Pressure (psi)	xxx	---
Flow Observed (gpm)	---	xxx
Fire Protection Demands:		
Sprinkler System Peak Demand	---	--- gpm    --- psi
Inside Hose Demand	---	--- gpm
Outside Hose Demand	---	--- gpm
Domestic System Peak Demand	---	--- gpm

- SITE UTILITY NOTES**
- PROPOSED WATER TAP INTO EXISTING PWSA 8" WATER LINE (TYP.). REFER TO DETAILS WS-5NT, WS-C, AND WCB-1; SHEET TP1.2. (STA. 0+20.84, 0+46.84, 0+48.80)
  - PROPOSED CURB BOX. REFER TO DETAIL WS-C1 SHEET TP1.2.
  - PROPOSED DOMESTIC WATER LINE, INTERNALLY METERED. REFER TO MEP PLANS FOR ADDITIONAL INFORMATION.
  - PROPOSED SANITARY CONNECTION TO EXISTING PWSA 15" COMBINATION SEWER. REFER TO DETAILS SLD-1, ST-2, AND ST-7; SHEET TP1.2. (STA. 0+22.73, 0+32.42, 0+50.69).
  - PROPOSED WATER METER CROCK (TYP. PER UNIT) SEE DETAIL WS-5MPC, SHEET TP1.2

\*NOTE: A PENNDOT HIGHWAY OCCUPANCY PERMIT WILL BE REQUIRED FOR ANY WORK IN STATE ROUTES.

THE PITTSBURGH WATER & SEWER AUTHORITY	
APPROVAL FOR:	
<input checked="" type="checkbox"/>	NEW WATER TAP, BACKFLOW PREVENTOR, AND METER INSTALLATION
<input checked="" type="checkbox"/>	NEW SANITARY AND/OR STORM SEWER TAP
<input type="checkbox"/>	INCREASE IN FLOW AT EXISTING SEWER AND/OR WATER CONNECTION
<input type="checkbox"/>	SEWER TAP TERMINATION
<input type="checkbox"/>	WATER TAP TERMINATION
<input type="checkbox"/>	EXTENDED FACILITIES
<input type="checkbox"/>	RELOCATION OF FACILITIES

\*DISCLAIMER: Signatures / Approval by PWSA are for the physical connections(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 demands.

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

Project Coordinator/Project Management Engineer/Reviewer	Date
Approval	
Chief of Operations	Date
Director of Engineering and Construction	Date

**WATER SERVICE**  
PWSA  
1200 PENN AVE  
PITTSBURGH, PA 15222  
PHONE: (412) 255-8800

**STORM SEWER**  
PWSA  
1200 PENN AVE  
PITTSBURGH, PA 15222  
PHONE: (412) 255-8800

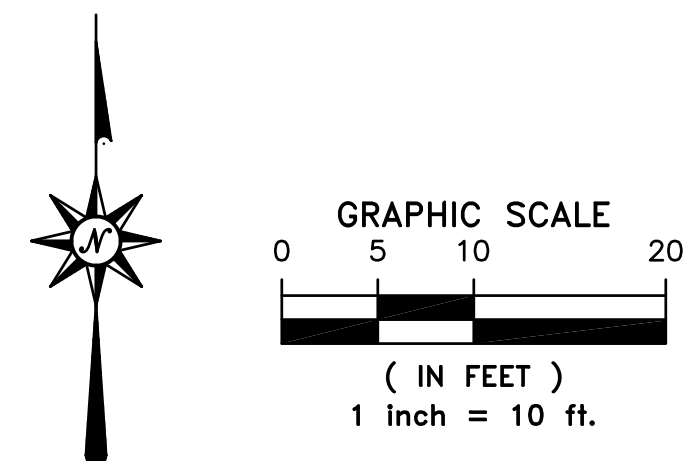
**SANITARY SEWER**  
PWSA  
1200 PENN AVE  
PITTSBURGH, PA 15222  
PHONE: (412) 255-8800

**LAND OWNER/DEVELOPER**  
TW HOLDINGS 12 LLC  
44A ROCHESTER ROAD  
PITTSBURGH, PA 15229

**LEGEND**

--- PROPERTY LINE	--- 4" G	--- GAS SERVICE LINES
--- ADJOINER LINE	--- 6" G	
--- RIGHT OF WAY LINE	--- 12" W	--- WATER SERVICE LINES
--- FENCE	--- 8" W	
--- 1 FT. CONTOUR LINE	--- 4" S	
--- 5 FT. CONTOUR LINE	--- 2" W	
--- OHW	--- 12" S	
--- UGE	--- 4" S	--- SANITARY SEWER LINES
	--- 18" COMBO. SEWER	

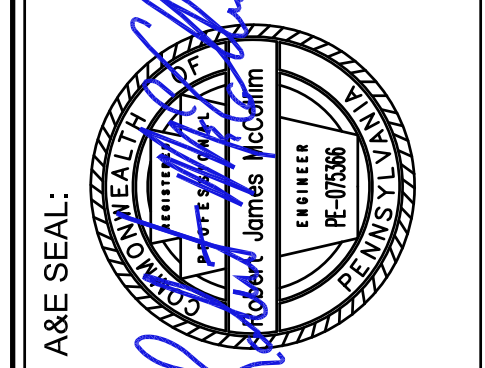
▽ PR. THRUST BLOCK	⊗ PR. VALVE
▨ CATCH BASIN	⊙ MANHOLE
⊗ GAS VALVE	⊙ PROPERTY CORNER
⊗ WATER VALVE	⊙ UTILITY POLE
⊗ WATER BOX	⊙ FIRE HYDRANT
■ PR. CURB STOP	



**CALL BEFORE YOU DIG!**  
PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS NOTICE IN DESIGN STAGE.  
STOP CALL  
PENNSYLVANIA ONE CALL SYSTEM, INC.  
1-800-242-1776

**TW HOLDINGS 12 LLC**  
McARDLE TOWN HOMES  
911 PRETENSE WAY & 908 PJ McARDLE ROADWAY  
CITY OF PITTSBURGH - 17TH WARD  
ALLEGHENY COUNTY

SCALE: SHEET 1 OF 2    ACCESSION NO. C-    CASE NO.    DATE:    6/27/2019



ACKNOWLEDGMENT OR SIGN-OFF BY THE ENGINEER IS REQUIRED FOR ALL CHANGES TO THE CONSTRUCTION DRAWINGS. ANY ALTERATION OF THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE TO OTHER THAN THAT WHICH RELATES TO THIS PROJECT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE WORKING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT.

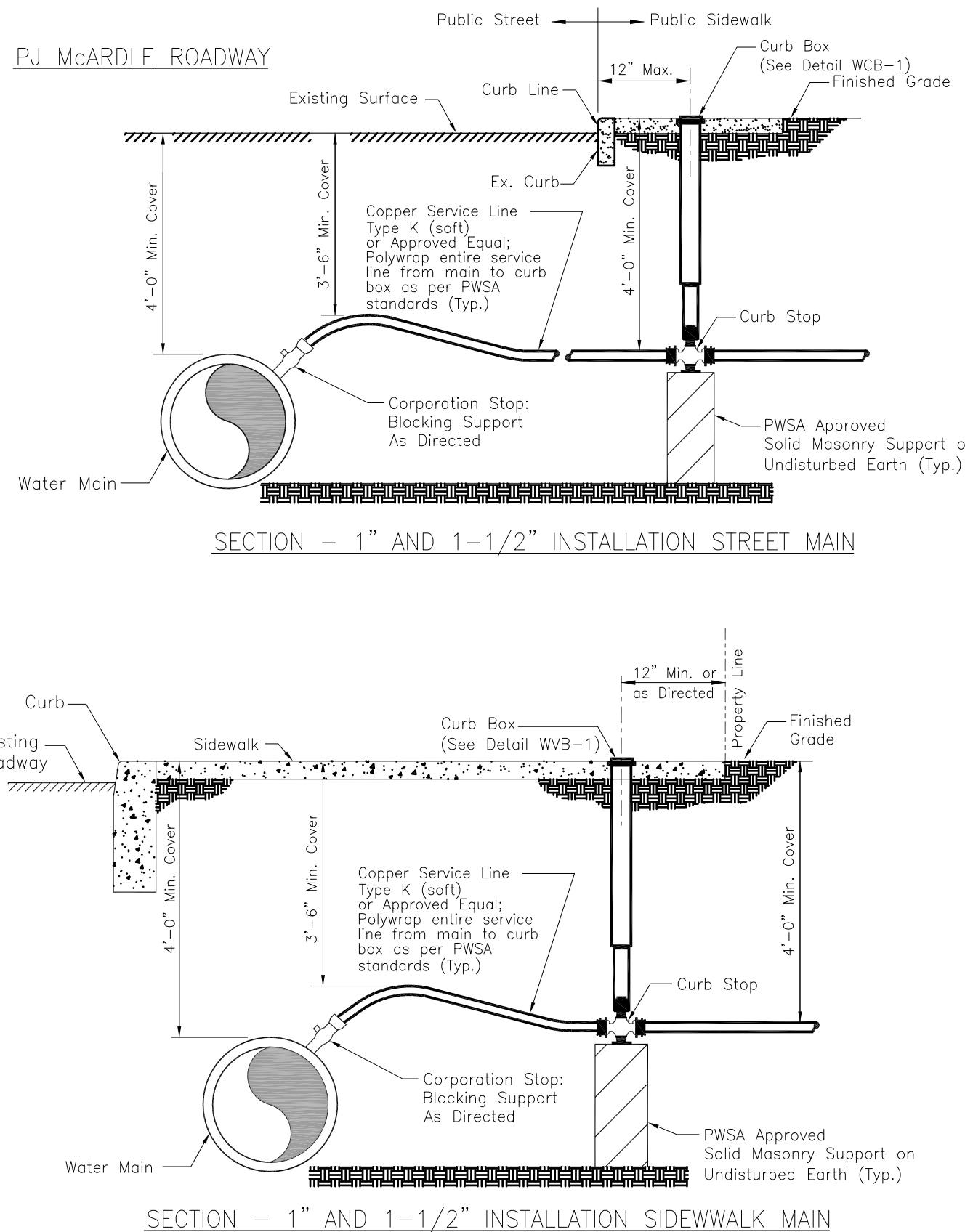
**TW HOLDINGS 12 LLC**  
**McARDLE TOWN HOMES**  
911 PRETENSE WAY & 908 PJ McARDLE ROADWAY  
CITY OF PITTSBURGH - 17TH WARD  
ALLEGHENY COUNTY

REVISIONS:	MARK	DATE	DESCRIPTION
0	6/27/2019		ISSUED FOR REVIEW

PROJECT NO:	1697
SCALE:	AS SHOWN
DATE:	1/2/2019
DESIGNED BY:	ZSM
DRAWN BY:	MJN
CHECKED BY:	RLS
SHEET TITLE:	TAP-IN PLAN
SHEET NO.	TP1.1



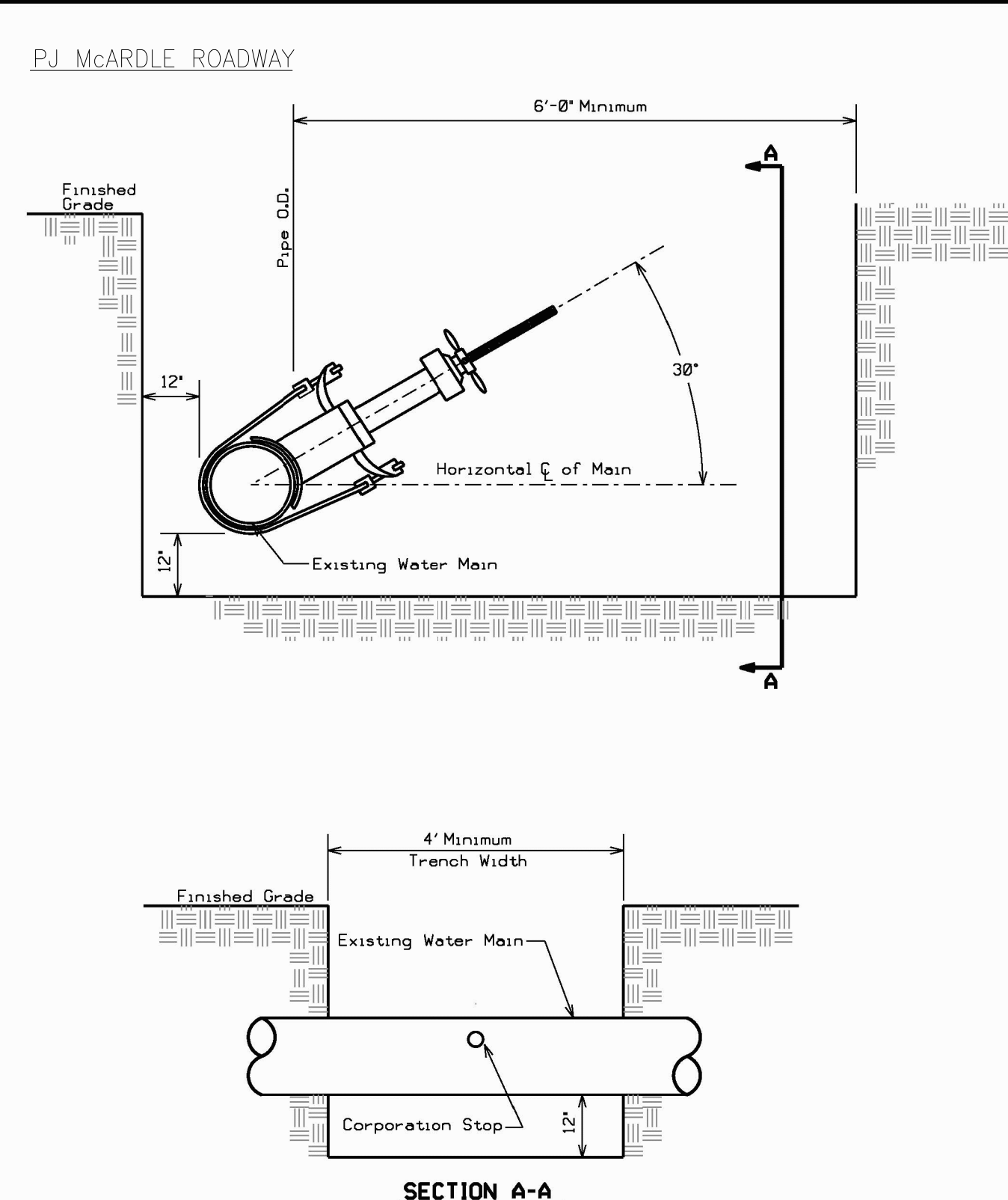




NOTES:  
 1. Only one PWSA meter will be installed per each service tap.  
 2. Domestic Service is 1" min. from PWSA Main to Meter.

REVISIONS		PGH20	Pittsburgh Water & Sewer Authority
1. MSR 4-23-01	5. LRC 1-31-14		
2. MAC 9-1-05			
3. MAC 8-10-07			
4. MAC 1-2-08			

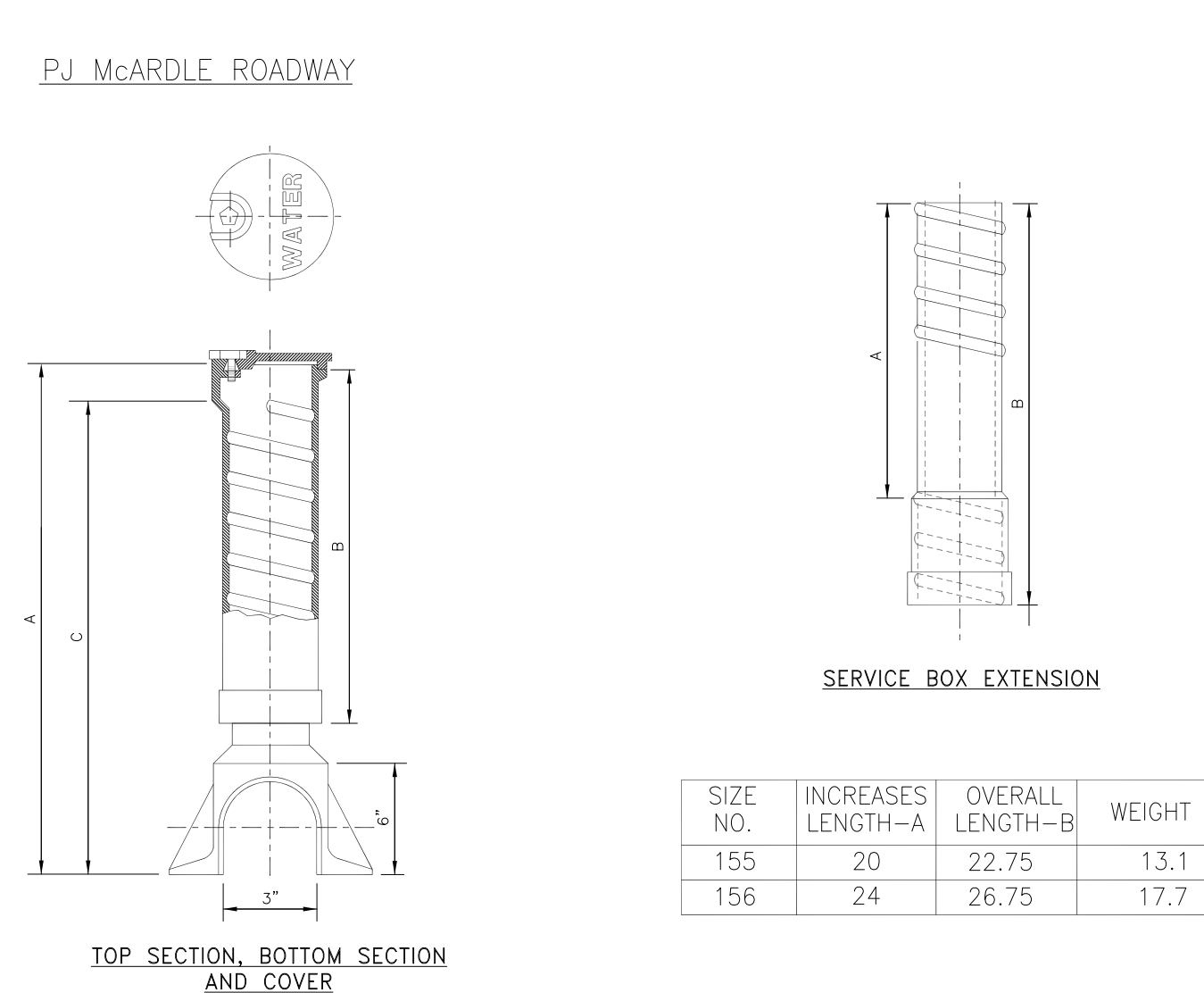
Approved by: **PGH20** Pittsburgh Water & Sewer Authority  
 Scale: N.T.S.  
 Supplemental Detail Drawing: **WS-SNT**



NOTE:  
 1. PWSA will make the actual tap.  
 2. Excavation and shoring required as per current OSHA standards.

REVISIONS		PGH20	The Pittsburgh Water & Sewer Authority
1. MSR 4-23-01			
2. MAC 8-13-07			
3. LRC 1-31-14			

Approved by: **PGH20** Pittsburgh Water & Sewer Authority  
 Scale: N.T.S.  
 Supplemental Detail Drawing: **WS-C**



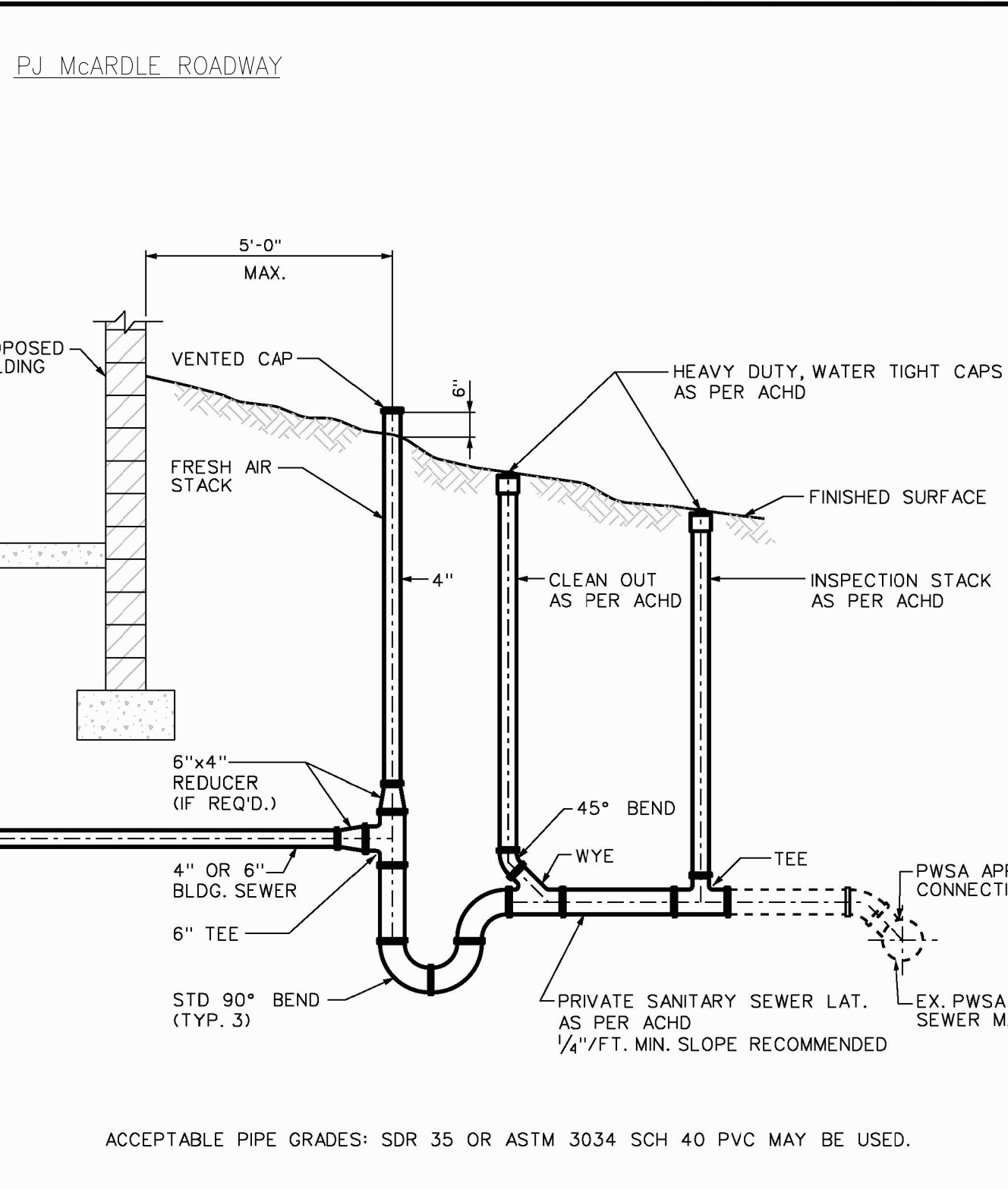
SIZE NO.	INCREASES LENGTH-A	OVERALL LENGTH-B	WEIGHT
155	20	22.75	13.1
156	24	26.75	17.7

SIZE NO.	EXTENSION RANGE-A	TOP SECTION & COVER NO.	WEIGHT DIM. B	BOTTOM SECTION NO.	WEIGHT DIM. C	TOTAL WEIGHT
2	24" - 39"	9	19.6	2	14.1	32.7

NOTES:  
 1. SERVICE BOX SHALL BE BINGHAM & TAYLOR BUFFALO STYLE (3" OLD STYLE)M No. 4930 OR APPROVED EQUAL.  
 2. DIMENSIONS IN INCHES; WEIGHT IN POUNDS.  
 3. LABELED "WATER" ON THE COVER.

REVISIONS		PGH20	Pittsburgh Water & Sewer Authority
1. MSR 3-12-04			
2. MAC 8-15-07			
3. LRC 1-31-14			

Approved by: **PGH20** Pittsburgh Water & Sewer Authority  
 Scale: N.T.S.  
 Supplemental Detail Drawing: **WCB-1**

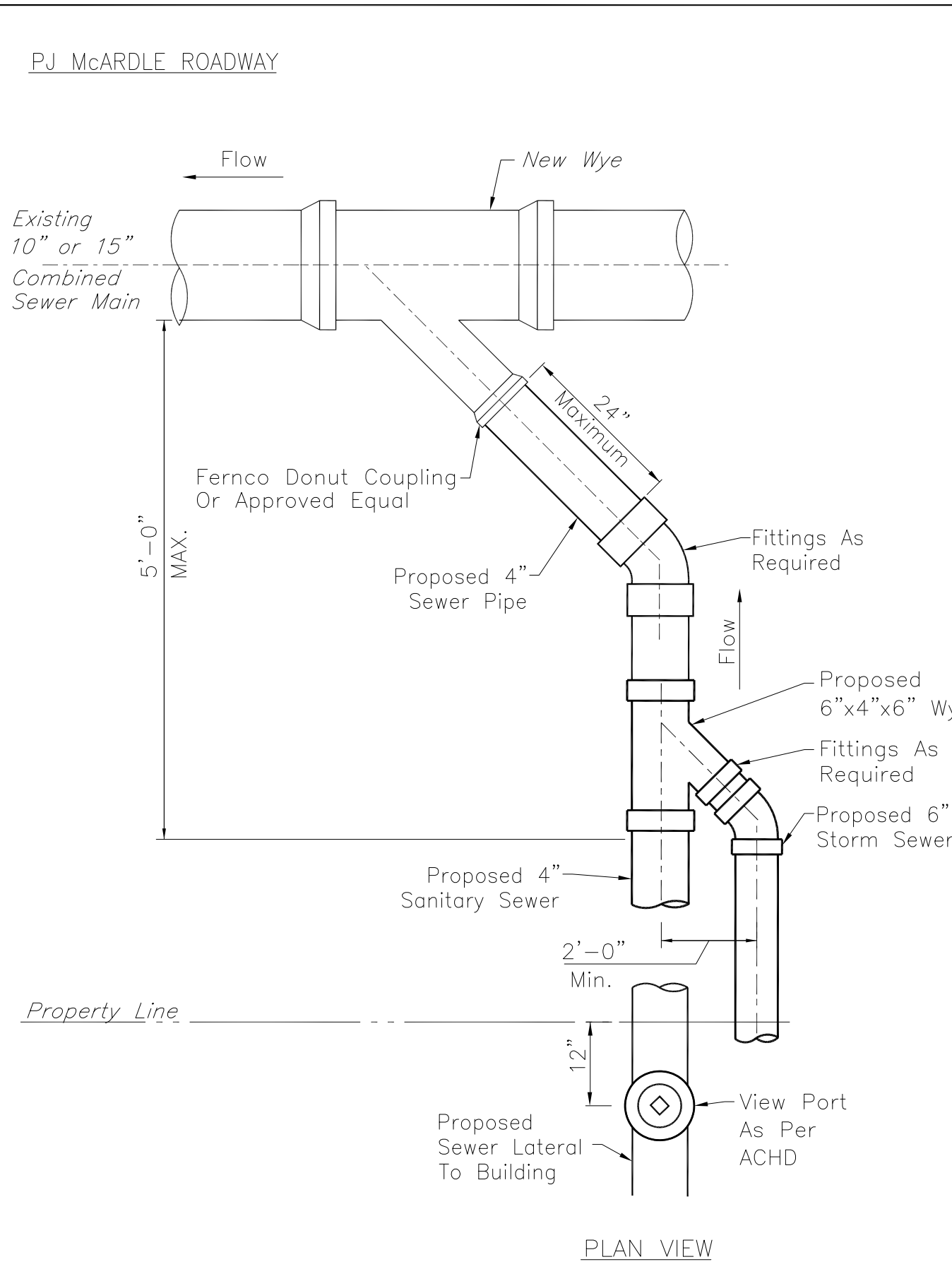


ACCEPTABLE PIPE GRADES: SDR 35 OR ASTM 3034 SCH 40 PVC MAY BE USED.

NOTES:  
 1. CONTRACTOR MUST CONTACT PWSA FOR SEWER INSPECTION PRIOR TO BACKFILLING TAP CONNECTION ON SEWER MAIN.  
 2. 4" DIA PIPE MAY BE USED ON SEPARATE SANITARY CONNECTION.

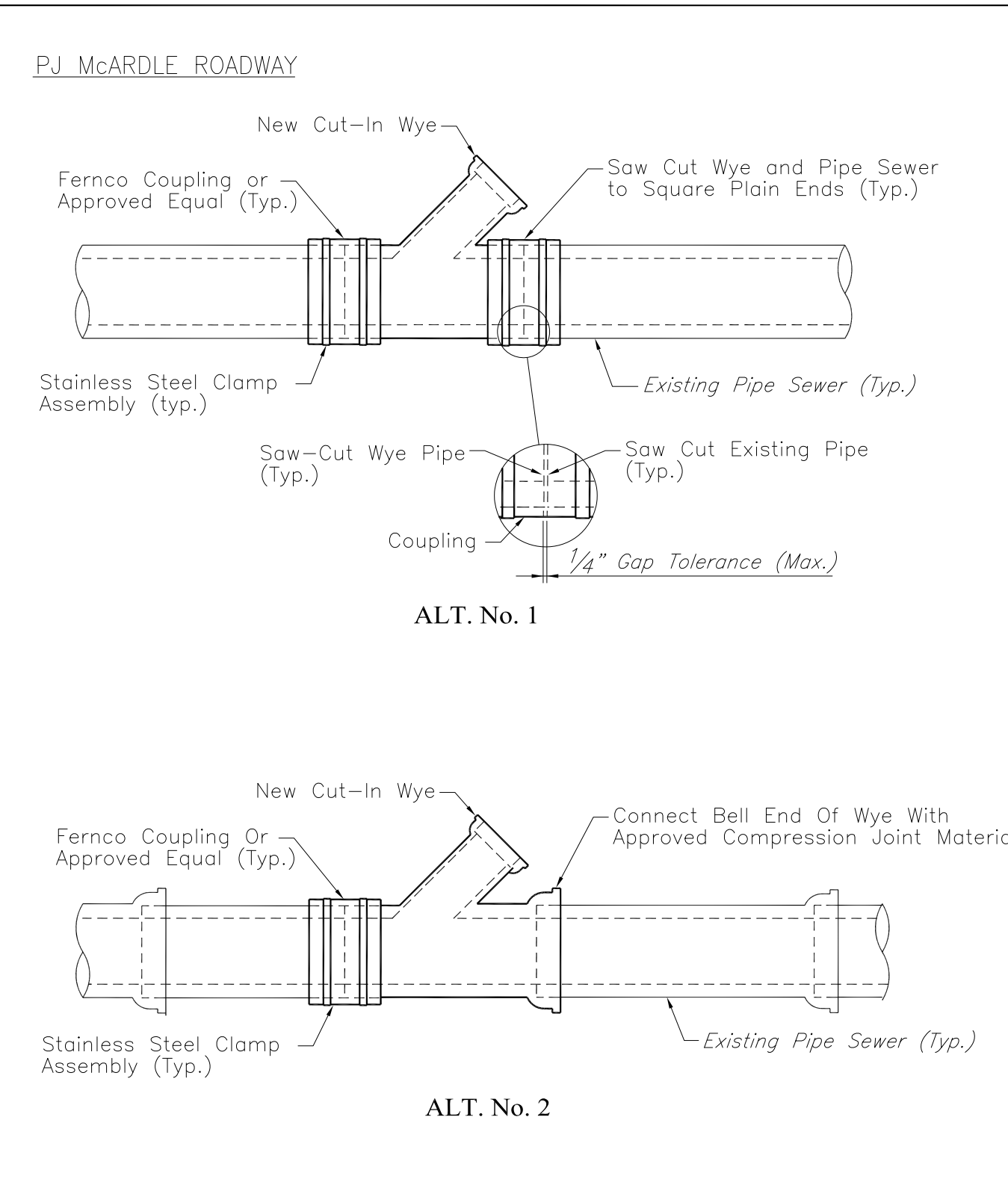
REVISIONS		PGH20	The Pittsburgh Water & Sewer Authority
1. MSR 4-18-01			
2. LRC 1-31-14			

Approved by: **PGH20** Pittsburgh Water & Sewer Authority  
 Scale: N.T.S.  
 Supplemental Detail Drawing: **SLD-1**



REVISIONS		PGH20	Pittsburgh Water & Sewer Authority
1. MSR 4-18-01			
2. LRC 1-31-14			

Approved by: **PGH20** Pittsburgh Water & Sewer Authority  
 Scale: N.T.S.  
 Supplemental Detail Drawing: **ST-1**

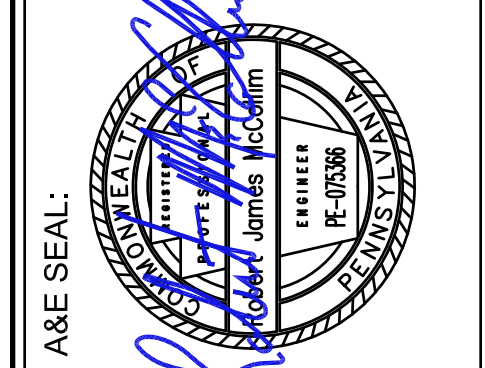


NOTES:  
 1. SAW-CUT EXISTING PIPE SEWER, NO BREAK-IN OR HAMMER CONNECTIONS PERMITTED. JOINTS MUST BE INSPECTED BY PWSA BEFORE AND AFTER FLEXIBLE COUPLINGS ARE INSTALLED.  
 2. WYE MATERIAL WILL MATCH SEWER MAIN MATERIAL.  
 3. PIPE MAIN I.D. OF NEW WYE SECTION WILL MATCH I.D. OF EXISTING PIPE SEWER MAIN.  
 4. WYE LOCATION WILL BE LOCATED AT 2 O'CLOCK OR 10 O'CLOCK ON BARRREL OF PIPE SEWER.

REVISIONS		PGH20	Pittsburgh Water & Sewer Authority
1. JILK 8-14-02			
2. MAC 1-5-04			
3. LRC 1-31-14			

Approved by: **PGH20** Pittsburgh Water & Sewer Authority  
 Scale: N.T.S.  
 Supplemental Detail Drawing: **ST-7**

WATER AND SEWER FLOW DATA	
WATER CONSUMPTION	1,200 GPD
SANITARY FLOW	1,200 GPD
STORM FLOW	0.42 CFS
APPLICATION NUMBER (ASSIGNED BY PWSA)	
DEP APPROVAL DATE (ASSIGNED BY PWSA)	



ACKNOWLEDGEMENT OR SIGN-OFF BY ARCHITECT OR CONSULTING ENGINEER IS REQUIRED FOR ANY ALTERATION OF THESE TERMS. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE PROJECT FOR WHICH IT WAS PREPARED IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE WORKING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT.

THE PITTSBURGH WATER & SEWER AUTHORITY

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

\*DISCLAIMER: Signatures / Approval by PWSA are for the physical connections(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 demands.

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

Project Coordinator/Project Management Engineer/Reviewer	Date
Approval	
Director of Operations	Date
Director of Engineering and Construction	Date

TW HOLDINGS 12 LLC  
 McARDLE TOWN HOMES  
 911 PRETENSE WAY & 908 PJ McARDLE ROADWAY  
 CITY OF PITTSBURGH - 17TH WARD  
 ALLEGHENY COUNTY

SCALE: SHEET OF 2 ACCESSION NO. C- DATE: 2 OF 2 CASE NO.

TW HOLDINGS 12 LLC  
 McARDLE TOWN HOMES  
 911 PRETENSE WAY & 908 PJ McARDLE ROADWAY  
 CITY OF PITTSBURGH - 17TH WARD  
 ALLEGHENY COUNTY

REVISIONS:	MARK	DATE	DESCRIPTION
0	6/27/2019	ISSUED FOR REVIEW	

PROJ NO: 1697  
 SCALE: AS SHOWN  
 DATE: 1/2/2019  
 DESIGNED BY: ZSM  
 DRAWN BY: MJN  
 CHECKED BY: RLS  
 SHEET TITLE: TAP-IN DETAILS

SHEET NO. TP1.2



## 1. PROJECT INFORMATION

Project Name: **Penn-Ohio Group - 908 PJ McArdle Road**

Date of Review: **12/17/2018 10:30:35 AM**

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

Project Area: **0.31 acres**

County(s): **Allegheny**

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

ZIP Code: **15203**

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

Watersheds HUC 8: **Lower Monongahela**

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

Decimal Degrees: **40.427039, -79.989307**

Degrees Minutes Seconds: **40° 25' 37.3393" N, 79° 59' 21.5051" W**

## 2. SEARCH RESULTS

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

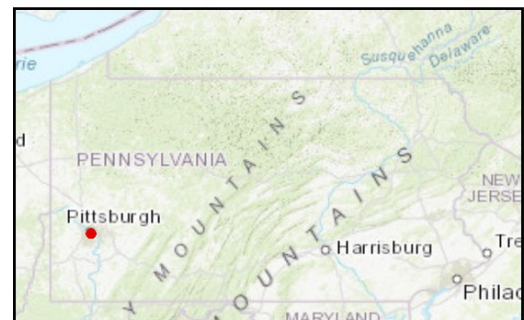
As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.



### Penn-Ohio Group - 908 PJ McArdle Road



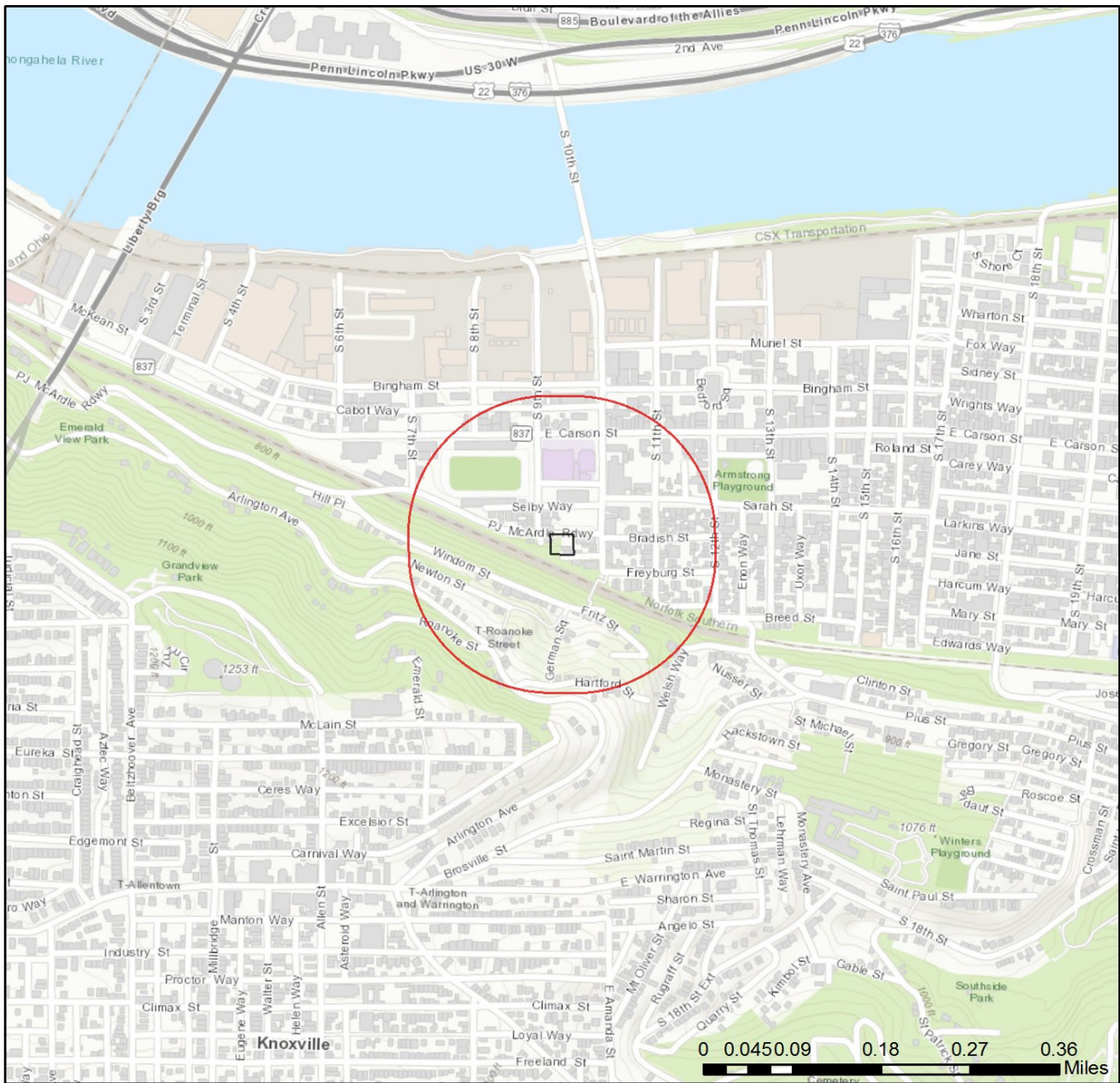
- Project Boundary
- Buffered Project Boundary



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, © OpenStreetMap contributors, and the GIS user community

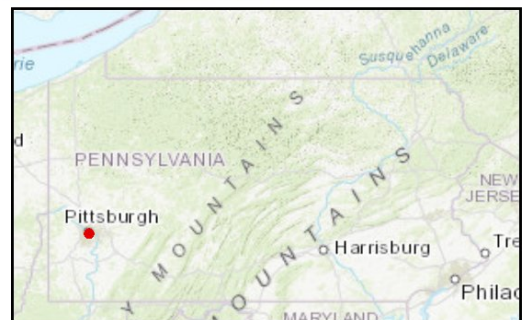


### Penn-Ohio Group - 908 PJ McArdle Road



- 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:** The project will affect 1 to 39 acres of forests, woodlots and trees.

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

**Your answer is:** No

### 3. AGENCY COMMENTS

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

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

#### PA Game Commission

##### RESPONSE:

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

#### PA Department of Conservation and Natural Resources

##### RESPONSE:

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

#### PA Fish and Boat Commission

##### RESPONSE:

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

#### U.S. Fish and Wildlife Service

##### RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

## 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.





## 5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page ([www.naturalheritage.state.pa.us](http://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](mailto: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](mailto: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](mailto:RA-PGC_PNDI@pa.gov)  
NO Faxes Please

## 7. PROJECT CONTACT INFORMATION

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

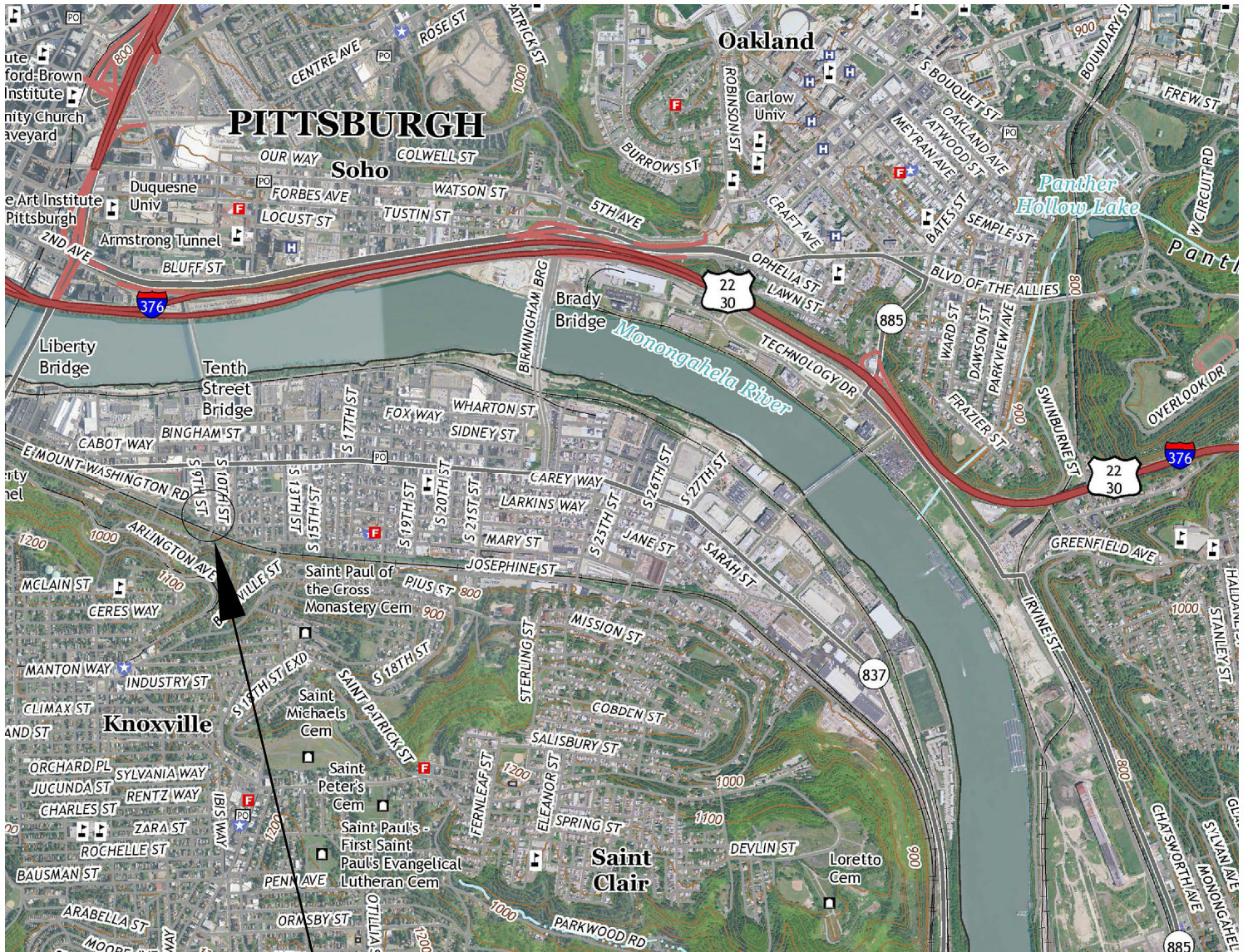
## 8. CERTIFICATION

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.

Zachary S. Milanak  
applicant/project proponent signature

\_\_\_\_\_  
date





## SITE LOCATION

REFERENCE:  
PITTSBURGH EAST, PA - 2016 USGS QUADRANGLE



REVISIONS	
DATE	BY

TW HOLDINGS 12 LLC	
McARDLE RESIDENTIAL BUILDING	
<b>USGS VICINITY MAP</b>	
DEVELOPMENT SERVICES/DUE DILIGENCE/ ENGINEERS/ OWNERS/ SURVEYORS ONE MONROEVILLE CENTER 3824 NORTHERN PIKE, SUITE 800 MONROEVILLE, PA 15146 OFFICE: 724.325.1215	
RSG PROJECT NO: 1697	SHEET NO.
DATE:10/30/2019	1 OF 1
SCALE:1"=2000'	