

Memorandum

August 22, 2025

CONTRACT NO. 1816

Manhole Improvements Contract

ADDENDUM NO. 1

All bidders bidding Contract No. 1816 shall read and take note of this Addendum No. 1. The Contract Documents for Contract No. 1816 – Manhole Improvements Contract are hereby revised and/or clarified as stated below.

Acknowledgement of Contract No. 1816; Addendum No. 1

The Acknowledgement attached to Addendum No. 1 is to be signed and returned immediately via email to **Tyler Trainor** at <u>contract.clerks@alcosan.org</u> and acknowledged with Bidder's Proposal.

Michael Lichte, P.E.

Director – Regional Conveyance

ACKNOWLEDGEMENT OF

CONTRACT NO. 1816

MANHOLE IMPROVEMENTS CONTRACT

ADDENDUM NUMBER 1

FIRM NAME: _			
SIGNATURE:_			
TITLE:			
DATE.			

August 22, 2025

CONTRACT NO. 1816

MANHOLE IMPROVEMENTS CONTRACT

ADDENDUM NO. 1

MANHOLE IMPROVEMENTS CONTRACT Addendum 1 August 22, 2025 Page 4 of 20

ALLEGHENY COUNTY SANITARY AUTHORITY PITTSBURGH, PENNSYLVANIA

CONTRACT NO. 1816 Manhole Improvements Contract

ADDENDUM 1 August 22, 2025

This Addendum 1 consists the following attachments:

Attachment A – Legal Notice

Attachment B – Revised Article 1

Attachment C – Revised Article 2

Attachment D – Technical Specifications – Section 01010 – Summary of Work (Revised)

Attachment E – Contract Drawings

Attachment F – Pre-Bid Meeting Minutes

Attachment G – Pre-Bid Presentation Slides

Attachment H – Responses to Any Questions

Attachment I – Pre-Bid Attendance List

ATTENTION BIDDERS

The following additions to and modifications of the Procurement Contract Documents will be included in and become part of the Contract for the Allegheny County Sanitary Authority (ALCOSAN) – **MANHOLE IMPROVEMENTS CONTRACT**. Bidders are instructed to take the following into account in rendering any Bid for this work.

The Bidder is responsible for verifying that he/she has received and reviewed all of the pages of the Procurement Contract Documents as well as all of the pages and attachments of all addenda. The Bidder shall verify all pages with the table of contents in the Procurement Contract Documents and the first page of all Addenda. Receipt of this Addendum 1 must be noted on the Bid Form. These items modify the portions of the documents specifically noted; all other provisions of the Procurement Contract Documents shall remain in effect.

THIS ADDENDUM 1 SHALL BE FASTENED TO THE PROCUREMENT CONTRACT DOCUMENTS AND SUBMITTED WITH THE BID FOR WORK INCLUDED UNDER THIS CONTRACT.

Contract 1816 Addendum No. 1

MANHOLE IMPROVEMENTS CONTRACT Addendum 1 August 22, 2025

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ALLEGHENY COUNTY SANITARY AUTHORITY PITTSBURGH, PENNSYLVANIA

CONTRACT NO. 1816 Manhole Improvements Contract

ADDENDUM 1 August 22, 2025

Attachment A – Legal Notice

Contract 1816 Addendum No. 1

ALLEGHENY COUNTY SANITARY AUTHORITY LEGAL NOTICE CONTRACT NO. 1816

MANHOLE IMPROVEMENT CONTRACT

Sealed Bids for CONTRACT No. 1816—MANHOLE IMPROVEMENT CONTRACT shall be received at the Engineering Department office of the Allegheny County Sanitary Authority, 3300 Preble Avenue, Pittsburgh, PA, 15233, until 2:00 P.M., Prevailing Time, Wednesday, September 12, 2025, and then shall be Publicly Opened and read via Microsoft Virtual Teams Meeting. A Mandatory Pre-Bid Meeting will be held via Microsoft Virtual Teams Meeting on Wednesday, August 13, 2025, at 10:00 A.M., Prevailing Time. An Invitation will be required to access this meeting. If interested in obtaining a Invitation to the Pre-Bid Meeting, contact Tyler Trainor via email at contract.clerks@alcosan.org.

ALCOSAN encourages businesses owned and operated by minorities and women to submit bids on Authority Contracts or to participate as subcontractors or suppliers to successful Bidders. Successful Bidders are to use minority and women's businesses to the fullest extent possible.

Contract Documents may be examined and obtained at the Engineering office of the Authority. A non-refundable fee of **One hundred dollars (\$100)** (no cash or credit cards will be accepted) will be charged for each set of Contract Documents received. Bid Security shall be furnished by providing with the Bid a Certified Check or Bid Bond in the amount of 10% of the Bid Price. Contract documents must be purchased directly from ALCOSAN to qualify as an eligible bidder.

Any questions regarding the **Technical Specifications** should be directed to **Steven Bristol**, **Project Engineer II**, **ALCOSAN**, via email at **steven.bristol@alcosan.org**.

Any questions regarding the **Purchase of Contract Documents** should be directed to **Tyler Trainor**, **ALCOSAN**, via email at **contract.clerks@alcosan.org**.

The Authority reserves the right to reject any or all bids, to waive any informality in any bid and to accept any bid should it be deemed in the interest of the Authority to do so.

ALLEGHENY COUNTY SANITARY AUTHORITY

Michael Lichte P.E.

Director of Regional Conveyance

MANHOLE IMPROVEMENTS CONTRACT
Addendum 1
August 22, 2025
Page 6 of 9

ALLEGHENY COUNTY SANITARY AUTHORITY PITTSBURGH, PENNSYLVANIA

CONTRACT NO. 1816 Manhole Improvements Contract

ADDENDUM 1 August 22, 2025

Attachment B – Revised Article 1 – Bidding Documents

Contract 1816 Addendum No. 1

ARTICLE 1 BIDDING DOCUMENTS

ARTICLE 1 BIDDING DOCUMENTS

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BID FORM

This Bid is submitted to the Allegheny County Sanitary Authority, herein called the Owner or the Authority, acting through its Chairman, which advertised for sealed bids for **CONTRACT NO. 1816, MANHOLE IMPROVEMENTS CONTRACT** by:

Bidder's Name and Address	:		
	Attn.:		
Telephone Number:		Facsimile Number:	

The undersigned as Bidder, hereinafter referred to as the Contractor or Bidder, declares that the only parties interested in this Bid as Principals are named herein; that this Bid is made without collusion with any other person, firm or corporation; that no officer or agent of the Authority is directly or indirectly interested in this Bid; that it has carefully examined the annexed form on the Contract Agreement and all accompanying Contract Documents and it proposes and agrees that, if its Bid is accepted, it shall contract with the Authority in the language of the Contract Agreement to supply the necessary materials and equipment and to perform the necessary work for **CONTRACT NO. 1816, MANHOLE IMPROVEMENTS CONTRACT** within five hundred fifty (550) days for the Contract after receiving from the Authority the Notice of Award of the Contract, and the Notice to Proceed, and that they shall complete the work required by the Contract Documents including the Reference Drawings, and Specifications, in its entirety in the manner and under the conditions required at the prices listed as follows:

NOTE: Prices shall be either in ink or typewritten in both figures and words. In case of a discrepancy between the price written in words and the price written in figures, the price written in words will govern.

Unit Price Work:

Bidder proposes to accept as full payment for the Unit Price Work proposed herein the amounts computed under the provisions of the Bidding Documents and based on the following unit price amounts, it being expressly understood that the unit prices are independent of the exact quantities involved. Bidder agrees that the unit prices represent a true measure of the labor, materials, and services required to furnish and install the item, including all allowances for overhead and profit for each type and unit of Work called for in these Bidding Documents.

Bidders are advised that the Authority reserves the right to have all, a portion, or none of the unit price work completed during **CONTRACT NO. 1816, MANHOLE IMPROVEMENTS**.

CONTRACT NO. 1816, MANHOLE IMPROVEMENTS CONTRACT

ITEM	DESCRIPTION		NTITY	UNIT PRICE	TOTAL PRICE
GENERAL WORK					
1	Bonds, Insurance, and Mobilization/ Demobilization (not to exceed 5% of total bid proposal)	1	LS	\$	\$
2	Installation of Manhole 1 (Asset ID JT0167S01) - Complete	1	LS	\$	\$
3	Installation of Manhole 2 (Asset ID JT0130L03) - Complete	1	LS	\$	\$
4	Installation of Manhole 3 (Asset ID JT0130L10) - Complete	1	LS	\$	\$
5	Installation of T-29A-10 Casting and Lid Replacements - Complete	22	EA	\$	\$
6	Rehabilitation of Manhole 4 (Asset ID MH0122C01) - Complete	1	LS	\$	\$
7	Rehabilitation of Manhole 5 (Asset ID MH1107A05) - Complete	1	LS	\$	\$
8	Rehabilitation of Manhole 6 (Asset ID MH0521J08) - Complete	1	LS	\$	\$
9	Rehabilitation of Manhole 7 (Asset ID S-39) - Complete	1	LS	\$	\$
10	Bulkhead 24 inch Outlet Pipe and Flow Fill Overflow Pipe at Regulator M-60	1	LS	\$	\$
	CONTINGENT	WORK			
C-11	Exploratory Excavation	150	CY	\$	\$
C-12	Trench Excavation	2000	CY	\$	\$
C-13	Trench Excavation Greater Than 15" Deep	250	CY	\$	\$
C-14	Rock and Obstruction Excavation	50	CY	\$	\$
C-15	Debris Removal Hauled to an Approved Dump Site, As Directed by ALCOSAN	100	TN	\$	\$
C-16	Pre-Cast Manhole, 0-15 Foot Depth, 48" Diameter	12	EA	\$	\$

ITEM	DESCRIPTION	QUA	NTITY	UNIT PRICE	TOTAL PRICE
C-17	Pre-Cast Manhole, Greater than 15 Foot Depth, 48" Diameter	100	VF	\$	\$
C-18	Pre-Cast Manhole, 0-15 Foot Depth, 60" Diameter	12	EA	\$	\$
C-19	Pre-Cast Manhole, Greater than 15 Foot Depth, 60" Diameter	100	VF	\$	\$
C-20	Manhole Pipe Tie In Connections	10	EA	\$	\$
C-21	Replace Castings	20	EA	\$	\$
C-22	Manhole Risers and Cones	100	VF	\$	\$
C-23	Concrete Encasement (All Types w/ Reinforcement)	150	CY	\$	\$
C-24	Approved Aggregate to Include Trench Backfill, Above Pipe Zone	500	СҮ	\$	\$
C-25	Selected Earthen Backfill	1,000	CY	\$	\$
C-26	Existing Pavement Demolition, Removal, and Disposal	200	SY	\$	\$
C-27	Permanent Bituminous Pavement Restoration (All Types)	300	TN	\$	\$
C-28	Concrete Paving Base and Pavement w/ Reinforcement	100	СҮ	\$	\$
C-29	Sidewalks, Driveways and Curbing	100	SY	\$	\$
C-30	Temporary Cold Patch Bituminous Pavement	50	TN	\$	\$
C-31	Traffic Control, Flagperson	150	HR	\$	\$
C-32	Traffic Control, Law Enforcement Officer (LEO)	100	HR	\$	\$
C-33	Traffic Control, Arrow Board	100	HR	\$	\$
C-34	Cutting Construction Access Roads w/ Restoration	1,000	SY	\$	\$
C-35	Landscape Restoration	2,500	SY	\$	\$
C-36	Erosion Control Blankets (As Directed)	500	SY	\$	\$
C-37	Silt Socks (As Directed)	750	LF	\$	\$
C-38	Clearing and Grubbing	750	SY	\$	\$

ITEM	DESCRIPTION	QUA	NTITY	UNIT PRICE	TOTAL PRICE
C-39	Laborer w/ Compressor, Utility Truck and Miscellaneous Tools	80	HR	\$	\$
C-40	Miscellaneous Work For A Full Time Crew	200	HR	\$	\$
C-41	Extensive Hand Digging and Tunneling	75	HR	\$	\$
C-42	Railroad Protective Liability Insurance	4	EA	\$	\$
C-43	Additional Dewatering or Bypass Pumping w/ Up to and including 8" Pump w/ Backup and 400 Feet of Hoses and Fittings (with operator)	100	HR	\$	\$
C-44	Additional Fused Pipe, Hoses and Fittings	1,000	LF	\$	\$
C-45	CCTV Pipe Inspection With Pipe Locator Equipment, All Diameters	80	HR	\$	\$
C-46	Dye Test Of Existing Sewer (Includes CCTV and/or Push Camera)	80	HR	\$	\$
C-47	Additional Hydrovac Truck, 12 Yard Capacity for Debris, 1800 Gallon Water Tanks, 2000 psi, 250 GPM High Velocity Sewer Cleaning, As Directed (with Operator)	120	HR	\$	\$
C-48	Additional Fittings (PVC)	10	EA	\$	\$
C-49	Flowable Fill	100	CY	\$	\$
C-50	R-5 Rip Rap Grouted In Place	40	CY	\$	\$
C-51	PVC Sewer, SDR-26, 8" to 15"	75	LF	\$	\$
C-52	DIP Class 52 Sewer, 8" to 16"	75	LF	\$	\$
C-53	DIP Class 52 Sewer, 18" to 24"	50	LF	\$	\$
C-54	Class 4 RCP Sewer, 18" to 24"	50	LF	\$	\$
C-55	Class 4 RCP Sewer, 27" to 48"	50	LF	\$	\$
C-56	Soil Testing Storage, and Disposal, As Directed (ALLOWANCE)	1	ALLOW ANCE	\$ 40,000	\$ 40,000

TOTAL COST, CONTRACT NO. 1816, MANHOLE IMPROVEMENTS CONTRACT	\$
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CONTRACT 1816, MANHOLE IMPROVEMENTS CONTRACT Bid Total Cost

1-4

BID FORM

(GENERAL WORK and CONTINGENT WORK)

The Authority is exempt from the payment of Commonwealth of Pennsylvania Selective Sales and Use Tax. The Bidder should disregard such tax in calculating its Bid.

It is understood that the Authority reserves the right to waive any informality in or reject any or all Bids and to withhold the awarding of the Contract for sixty (60) calendar days after the date set for the opening of the Bids.

If the Bid is accepted by the Authority, and the undersigned shall fail to enter into a formal Contract as aforesaid, within ten (10) calendar days (not including Sunday or a legal holiday) from the date of receipt of notice from the Authority to the undersigned, at the address given herewith, that the Contract is ready for signature, then the Authority may procure the required **CONTRACT NO. 1816, MANHOLE IMPROVEMENTS CONTRACT** from others.

The undersigned Bidder agrees that the Contract, if awarded to the Bidder, shall be entered into, under and pursuant to the laws of the Commonwealth of Pennsylvania and shall in all respects be construed in accordance with the laws of said Commonwealth.

Should the Bidder change the wording of the language employed in the Contract Documents including the Bid so as to alter, modify or change the Contract Documents in any degree or manner the Authority may at its discretion reject the Bid or accept it with the changes. The same applies to any letter, printed form or other document inserted in the Contract Documents accompanying the Bid. The successful Bidder shall be legally bound to comply strictly with the provisions of the Authority's Contract Documents exactly as accepted by the Authority.

CORPORATION COMPLETE THIS PAGE

	is a corporation organized and
existing under the laws of	with principal place of
business at	
(Street Address)	
and, if a non-Pennsylvania corporation [[has] / [has not] been granted a certificate of
authority to do business in Pennsylvan	ia, as required by the Pennsylvania Business
Corporation Law of 1988, approved Deco	ember 21, 1988, P.L. 1444, <u>as amended</u> , 15 Pa.
C.S.A. " 4101 et seq.	
ATTEST:	
(Name of Corporation)	
gnature of Certifying Officer)	(Signature of Authorized Officer)

* The corporation shall make certain that the secretary or assistant secretary certifies the official character and authority of the person or persons executing this Bid for the Contractor according to the form attached hereto. In lieu of such certificate, attach to the Bid copies of the records of the corporation that show the official character and authority of the officer signing. The records shall be duly certified to be true copies by the secretary or assistant secretary under corporate seal.

CORPORATION COMPLETE THIS PAGE CERTIFICATE AS TO CORPORATE OFFICER

I,	,			,	certify	that	I am
[secretar	y]/[assistant secretary] o	f the	corporation	executing	the wi	thin Bio	d; that
			wł	no signed the	e said Bi	d; on bel	nalf of
the corpo	oration was then					(of said
corporati	ion; that I know his signa	ture an	nd his signatu	re thereto is	genuine	; and tha	at said
	duly signed, sealed and at verning body.	tested	for and in bel	nalf of said c	corporation	on by aut	hority
Date:	, 20		(Signature	of secretary	(or acciet	ant secre	
			(Signature)	or secretary	(01 45515)	ant seek	, (a1 y))
				(AFFIX	CORPC	RATE S	SEAL)

PARTNERSHIP COMPLETE THIS PAGE

	is a partnership
trading under a fictitious or assumed na	me and [has] / [has not] registered under the
Fictitious Names Act of Pennsylvania, nar	mely, the Act of December 16, 1982, P.L. 1309,
as amended, 54 Pa. C.S.A. " 301 et seq.	
	(Fictitious or assumed name)
WITNESS:	
	(Partner trading as above) *(SEAL
	(Partner trading as above) *(SEAL
Date:, 20	(Street Address)
	(City, State and Zip Code)

* If the executing party is a partnership, the document must be signed in the name of the partnership by at least two general partners, and the names and addresses of all the partners must be listed on the attached Certificate. The partnership must also attach Certificate of registration under the provisions of the Fictitious Names Act.

PARTNERSHIP COMPLETE THIS PAGE CERTIFICATE AS TO PARTNERSHIP

I, a partner of partnership named as Contractor in the win and addresses of all the partners of said	thin Bid, certify that the following are the names artnership:
(Name)	(Name)
(Address)	(Address)
(City, State and Zip Code)	(City, State and Zip Code)
(Name)	(Name)
(Address)	(Address)
(City, State and Zip Code)	(City, State and Zip Code)
Date:, 20	(Signature of Certifying Partner)

1-9

INDIVIDUAL COMPLETE THIS PAGE (WHEN THE PRINCIPAL IS AN INDIVIDUAL DOING BUSINESS UNDER A FIRM NAME)

	[has] / [has not] registered under the Fictitious he Act of December 16, 1982, P.L. 1309, as
WHTNESS.	(Fictitious or assumed name)
WITNESS:	By: (SEAL)
	By:(SEAL) (Individual doing business as above)
	(Street Address)
Date:	(City, State and Zip Code)
	NDIVIDUAL DOING BUSINESS IN DIVIDUAL NAME)
	(Individual Name)
WITNESS:	
	By:(SEAL) (Individual)
	(Street Address)

BID BOND

KNOW ALL MEN BY TI	HESE PRESENTS, that we	<i>_</i>
		as Principal, and
	, a corporation duly org	ganized under the laws of
the State of, as S	Surety, are held and firmly bound unt	to the Allegheny County
Sanitary Authority, herein cal	lled the "Authority", its attorneys, suc	ccessors or assigns in the
sum of	Dollars (\$) lawful
money of the United States of	America, for payment of which sum	well and truly to be
made, we bind ourselves, our	heirs, legal representatives, success	ors and assigns, jointly
and severally, firmly by these	presents.	

WHEREAS, the Principal has submitted the accompanying Bid for **CONTRACT NO. 1816, MANHOLE IMPROVEMENTS CONTRACT.**

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that (1) if the Principal shall not withdraw said Bid within the period specified in the Information for Bidders, and shall within the period therein specified therefor [or, if no time is specified, within ten (10) calendar days (not including Sundays or Legal Holidays) after the prescribed forms are presented to it for execution] enter into a written Contract with the Authority in accordance with the Bid as required, for the faithful performance of such Contract and for the payment of labor and materials and execute and deliver to the Authority all bonds and other instruments required to be executed and delivered by the Principal in accordance with the Contract Documents, or (2) in the event of the unauthorized withdrawal of said Bid, or the failure to enter into such Contract and give such bonds within the time specified and execute and deliver to the Authority all bonds and other instruments required to be executed and delivered by the Principal in accordance with the Contract Documents, if the Principal shall pay the Authority the difference between the amount specified in said Bid and the amount for which the Authority may procure the required work or supplies or both, if the latter amount be in excess of former together with all other loss, damage or expense suffered by the Authority thereby, then, in either such case, the above obligation shall become void and of no effect; otherwise it shall remain in full force and effect.

Said Surety, for value received, hereby stipulates and agrees that the obligation of said Surety under this Bond shall in no way be impaired or affected by an extension of the time within which said Bid may be accepted and said Surety does hereby waive notice of any such extension.

Said Surety agrees that its liability hereunder shall be absolute regardless of any liability of the Principal hereunder whether by reason of any irregular or unauthorized execution of or failure to execute this Bond or otherwise.

This Bond is entered into, under and pursuant to the laws of the Commonwe Pennsylvania and shall in all respects be construed in accordance with the laws of Commonwealth.	
IN WITNESS WHEREOF, the above parties have executed this instrument undeseveral seals this day of, 20, the nare corporate seal of each corporate party being hereto affixed and these presents duly signed	ne and
undersigned representative, pursuant to authority of its governing body.	•

SURETY COMPLETE THIS PAGE

	(Corporate Surety)	
	(Street Address)	
	(City, State and Zip Code)	
ATTEST:	By:(Signature)	*
	(-2	
	(Title)	
Date:, 20		
	(AFFIX CORPORATE SE	ZAL)
* The Surety should attach to the Bid	Bond a currently certified Power of Attorney w	hich
•	ted by a live (not facsimile) signature showing	

BID BOND 1-13 ARTICLE 1

the person signing the Bid Bond for the Surety has the current authority to do so.

CORPORATION COMPLETE THIS PAGE

	is a corporation organized
and existing under the laws of	with principal place of
business at	
(Street Address)	(City, State and Zip Code)
and, if a non-Pennsylvania corporation [h	as] / [has not] been granted a certificate of
authority to do business in Pennsylvania,	, as required by the Pennsylvania Business
Corporation Law of 1988, approved Decem	nber 21, 1988, P.L. 1444, as amended, 15 Pa.
C.S.A. " 4101 et seq.	
ATTEST:	(Name of Corporation)
(Signature of Certifying Officer)	(Signature of Authorized Officer)
Date:, 20	(Typed name of Authorized Officer)
	(AFFIX CORPORATE SEAL)

* The corporation shall make certain that the secretary or assistant secretary certifies the official character and authority of the person or persons executing this Bid Bond for the Principal according to the form attached hereto. In lieu of such certificate, attach to the Bid Bond copies of the records of the corporation, that show the official character and authority of the officer signing. The records shall be duly certified to be true copies by the secretary or assistant secretary under corporate seal.

CORPORATION COMPLETE THIS PAGE CERTIFICATE AS TO CORPORATE OFFICER

I,		,	certify	that	I	am
[secretary]/[assistant secretary] of	the corporation	n executing the	within E	Bid Bo	nd;	that
		who sign	ed the said	d Bid E	3on	d; on
behalf of the corporation was	then				of	said
corporation; that I know his signat	ture and his sig	nature thereto i	s genuine	; and t	that	said
Bid Bond was duly signed, sealed	and attested for	or and in behal	f of said	corpor	atio	n by
authority of its governing body.						
Date:, 20	(Signatur	re of secretary (or assistar	nt secre	etar	y))
		(AFFIX	K CORPO	RATE	E SE	EAL)

PARTNERSHIP COMPLETE THIS PAGE

	is a partnership trac	ling
-	thas] / [has not] registered under the Fictiti the Act of December 16, 1982, P.L. 1309	
	(Fictitious or assumed name)	
WITNESS:		
	(Partner trading as above)	SEAL)
	(Partner trading as above)	SEAL)
Date:, 20	(Street Address)	
	(City, State and Zip Code)	

* If the executing party is a partnership, the document must be signed in the name of the partnership by at least two general partners, and the names and addresses of all the partners must be listed on the attached Certificate. Principal must also attach Certificate of registration under the provisions of the Fictitious Names Act.

PARTNERSHIP COMPLETE THIS PAGE CERTIFICATE AS TO PARTNERSHIP

I, a partner of partnership named as Contractor in the values and addresses of all the partners of	within Bid Bond, certify that the following are the of said partnership:
(Name)	(Name)
(Address)	(Address)
(City, State and Zip Code)	(City, State and Zip Code)
(Name)	(Name)
(Address)	(Address)
(City, State and Zip Code)	(City, State and Zip Code)
Date:, 20	(Signature of Certifying Partner)

INDIVIDUAL COMPLETE THIS PAGE (WHEN THE PRINCIPAL IS AN INDIVIDUAL DOING BUSINESS UNDER A FIRM NAME)

	is an individual	
	e and [has] / [has not] registered under the ely, the Act of December 16, 1982, P.L. 1309,	
WITNESS:	(Fictitious or assumed name) By:(SEAL (Individual doing business as above)	(ر
	(Street Address)	
Date:, 20	(City, State and Zip Code)	
	DIVIDUAL DOING BUSINESS IN VIDUAL NAME)	
	(Individual Name)	
WITNESS:	By: (SEAL))
	By:(SEAL)	,
	(Street Address)	
Date:, 20	(City, State and Zip Code)	

CERTIFICATE OF MINORITY AND WOMEN'S BUSINESS ENTERPRISE PARTICIPATION

CONTRACT NO. 1816, MANHOLE IMPROVEMENTS CONTRACT

The undersigned Bidder certifies that they have read and understand the Information for Bidders Section entitled "Minority and Women's Business Enterprise and Labor Surplus Area Policy", and further understand and agree to the minority participation goal applicable to this Contract, and shall strive to expend from ten to twenty-five percent (10-25%) of the total cost of the Contract for minority and women's business enterprise participation.

The Bidder further certifies that they understand that they are required to submit, as part of their Bid, a specific proposal indicating the manner in which it will attempt to comply with this requirement.

Failure of the Bidder to attempt to comply with these conditions or failure to submit with the Bid the proposal described above, or failure to sign and submit this Certificate with the Bid may disqualify the Bid as being nonresponsive.

lame of Bidder	
Signed	
Title	
Date	

ALLEGHENY COUNTY SANITARY AUTHORITY

Failure to complete this form and submit it with bid will be sufficient cause for rejection of bid.

Note: Each sheet must be returned.

CONTRACT NO. 1816

SOLICITATION AND COMMITMENT STATEMENT MINORITY (MBE) AND FEMALE (WBE) OWNED BUSINESS ENTERPRISES						
CONTRACT NO.	NAME OF BIDDER	WIINORITT (WIBE) AND F	ADDRESS	SINESS ENTERI RISES	PHONE	
1816						
List	below all MBE/WBE's	that were solicited - whe	ther or not a commit	ment was obtained Copy	y this form as necessary	
П мве	□ wbe	TYPE OF SUBCONTRACT WORK OR MATERIALS	DATE SOLICITED BY PHONE BY MAIL	COMMITMENT MADE YES (IF YES, GIVE DATE) N	GIVE REASON(S) O IF NO COMMITMENT MADE	
COMPANY NAME						
ADDRESS			QUOTE RECEIVED YES NO	AMOUNT COMMITTED DOLLAR AMOUNT \$		
CONTACT PERSON	PHONE			PERCENT OF TOTAL BID %		
□ мве	□ wbe	TYPE OF SUBCONTRACT WORK OR MATERIALS	DATE SOLICITED BY PHONE BY MAIL	YES (IF YES, GIVE DATE)	GIVE REASON(S) O IF NO COMMITMENT MADE	
COMPANY NAME						
ADDRESS			QUOTE RECEIVED YES NO	AMOUNT COMMITTED DOLLAR AMOUNT \$		
CONTACT PERSON	PHONE			PERCENT OF TOTAL BID %		
□ мве	□ WBE	TYPE OF SUBCONTRACT WORK OR MATERIALS	DATE SOLICITED BY PHONE BY MAIL	YES (IF YES, GIVE DATE)	GIVE REASON(S) NO IF NO COMMITMENT MADE	
COMPANY NAME						
ADDRESS			QUOTE RECEIVED YES NO	AMOUNT COMMITTED DOLLAR AMOUNT \$		
CONTACT PERSON	PHONE			PERCENT OF TOTAL BID %		
Prepared by:		Title:		Phone:		

NOTE: It is recommended that Certification and letters of intent for each MBE/WBE commitment accompany this Solicitation and Commitment Statement.

MBE/WBE SOLICITATION AND COMMITMENT STATEMENT

В	IDDER'S FIRM:					
A	DDRESS:					
T	ELEPHONE:					
C	ONTACT PERSON:					
P	ROPOSAL AND BID F	OR:				
	LIST BELOW ALL CO THE PAST T	NTRACTS WITH T HREE YEARS AND				
	CONTRACT TITLE	CONTRACT DATE	AMOUNT		% IPATION	COMMENTS
		22		MBE	WBE	
P	repared by:			Title: _		

MBE/WBE SOLICITATION AND COMMITMENT STATEMENT

Additional Information

The bidder presents the following as additional and supplemental information to its MBE/WBE Solicitation and Commitment Statement

Prepared by:	Title:	Phone:
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Websites that provide certified MBE/WBE companies:

www.paucp.com

Suzanne Thomas ALCOSAN DBE Coordinator

(412)732-8020

NON-COLLUSION AFFIDAVIT

State of _		:	
		S.S.	
County of		:	
	I state that I am _	(Title)	
of		(Name of Firm)	and that I am

authorized to make this Affidavit on behalf of my firm and its owners, directors and officers. I am the person responsible for the price(s) and the amount of this Bid.

I further state that:

- (1) The price(s) and amount of this Bid have been arrived at independently and without consultation, communication or agreement with any other contractor, bidder or potential bidder.
- (2) Neither the price(s) nor the amount of this Bid, and neither the approximate price(s) nor approximate amount of this Bid, have been disclosed to any other firm or person who is a bidder or potential bidder, and they will not be disclosed before the bid opening.
- (3) No attempt has been made or will be made to induce any firm or person to refrain from bidding on this contract, or to submit a bid higher than this Bid, or to submit any intentionally high or noncompetitive bid or other form of complementary bid.
- (4) My firm's Bid is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive bid.

(5)			
	(Name of F	irm)	,
	currently u have not in any act pro involving c public cont	nder investige the last four phibited by Stonspiracy or	officers, directors and employees are not gation by any governmental agency and years been convicted or found liable for state or Federal law in any jurisdiction, collusion with respect to bidding on any as follows (Either provide an explanation table):
	that		
Name of Firm)			
understands and important, and wi	_		bove representations are material and
TH	IE ALLEGHE	NY COUNT	Y SANITARY AUTHORITY
_	ny misstateme		d is submitted. I understand and my firm idavit is and shall be treated as fraudulent
TH	IE ALLEGHE	NY COUNT	Y SANITARY AUTHORITY
of the true facts re	elating to the s	ubmission of	bids for this contract.
			(Name and Company Position)
SWORN TO ANI	D SUBSCRIB	ED BEFORE	ME
THIS DA	AY of	, 20	-
(Notary Public)			(My Commission Expires)

CERTIFICATE OF COMPLIANCE WITH THE PENNSYLVANIA STEEL PRODUCTS PROCUREMENT ACT

This Certificate	is supplied by	
("Contractor") to the A	llegheny County Sanitary Authority ("ALCOSAN") this _	
day of	, 20	

WITNESSETH:

WHEREAS, Contractor wishes to contract with ALCOSAN relative to CONTRACT NO. 1816, MANHOLE IMPROVEMENTS CONTRACT(the "Contract"); and

WHEREAS, The Pennsylvania Steel Products Procurement Act, 72 P.S. '1881 et. seq. ("Steel Procurement Act") requires that if a product contains foreign and United States steel, such product shall be determined to be a United States steel product only if at least 75% of the cost of the articles, materials, and supplies have been mined, produced or manufactured, as the case may be, in the United States; and

WHEREAS, Contractor has represented to ALCOSAN that any and all products Contractor will supply to ALCOSAN pursuant to the Contract will be United States steel products as defined in Steel Procurement Act and Contractor does and will in all fashion and manner comply with the Steel Procurement Act and the Contract in performance of the Contract.

NOW, THEREFORE, INTENDING TO BE LEGALLY BOUND HEREBY, Contractor does represent and promise to ALCOSAN as follows:

- 1. The above recitals are binding between the parties and are legally enforceable as if set forth in their entirety herein.
- 2. Contractor will, pursuant to the Contract, meet the definition of United States steel products as set forth in the Steel Procurement Act and will in all manner and fashion otherwise comply with the Steel Procurement Act and the Contract.
- 3. Contractor acknowledges that its representations and promises are a material consideration to ALCOSAN with regard to considering Contractor for and possibly awarding the Contract to Contractor.
- 4. Contractor does hereby promise to indemnify and save harmless the Authority, its officers, agents, servants, and employees from and against any and all suits, actions, legal proceedings, claims, demands, damages, costs, expenses and attorney's fees resulting from the breach of any representation, covenant or promise contained in this Certificate.

			does hereby supply this Certificate
the	day of,		20
ATTEST:			
		By:	
		Title:	
		1100	
		Date:	

CONTRACTOR'S QUALIFICATIONS STATEMENT

	nitted by: (A Corporation) (A Copartnership) (An Individual)
Prin	cipal Office:
	signatory of this Qualifications Statement guarantees the truth and accuracy of all statements of all answers to interrogatories hereinafter made.
1.	How many years has your organization been in business under your present business name?
2.	How many years' experience does your organization have in this type of business?
3.	On a separate sheet, attached to this document, list the categories of work, by CSI Division Number and Title that your organization will perform on this contract.
4.	On a separate sheet, attached to this document, list the categories of work, by CSI Division Number and Title that your organization will sub-contract out on this contract.
5.	On a separate sheet, attached to this document, list major construction projects similar in nature to this project that your organization has in progress giving the name of project, owner, architect/engineer, contract amount, percent complete, scheduled completion date, and the percentage of the total cost of the work that your organization is performing.
6.	On a separate sheet, attached to this document, list major construction projects similar in nature to this project that your organization has completed in the past five (5) years, giving the name of project, owner, architect/engineer, contract amount, percent complete, scheduled completion date, and the percentage of the total cost of the work that your organization is performing.
7.	On a separate sheet, attached to this document, list the construction experience and current commitments of the key individuals of your organization.
8.	On a separate sheet, attached to this document, describe any equipment that your firm has to perform manhole and sewer work.
9.	If the answer is "yes" to any of the following three questions, please attach details.
	a. Has your organization ever failed to complete any work awarded to it?
	b. Are there any judgements, claims, arbitration proceedings or suits pending or

		outstanding against your organization or its officers?
	c.	Has your organization filed any law suits or requested arbitration with regard to construction contracts within the last five (5) years?
10.		a financial statement, preferably audited, including your organization's lates e sheet and income statement showing the following items:
	•	Current Assets (e.g. cash, joint venture accounts, accounts receivable, notes receivable, accrued income, deposits, materials inventory and prepaid expenses) Net Fixed Assets Other Assets Current liabilities (e.g. accounts payable, notes payable, accrued expenses provision for income taxes, advances, accrued salaries, and accrued payrol taxes) Other liabilities (e.g. capital, capital stock, authorized and outstanding shares par values, earned surplus, and retained earnings) Name and address of firm preparing attached financial statement and dates thereof
11.		attached financial statement for the identical organization named on page one? If not, explain the relationship and financial responsibility of the zation whose financial statement is provided (e.g. parent-subsidiary)
Dated:		
Name	of Orga	nization:
Γitle:		
		being duly sworn deposes and says that
the info	ormatio	on herein is true and sufficiently complete so as not to be misleading.
Subscr	ibed an	d sworn before me this date:
		ŧ
		ion Expires:

CERTIFICATION OF SAFETY PROCEDURES COMPLIANCE

I,	, as _				of
	(Typed Name), as		(Title o	or Office))
(Name of Corporation/Partnership	, a	(Туј	oe of Ent	ity)
hereby ce	ertify that I have read and underst	and the Safety P	rocedu	re as enu	merated in the
Contract 1	Provisions Section entitled "Com	pliance with Hea	lth, Sat	fety and	Environmental
Laws"	of,	CONTRACT	NO.	1816,	MANHOLE
IMPROV	VEMENTS CONTRACT and the	hat all Work wil	l be co	onducted	in accordance
with OSH	IA standards and other applicable	safety precaution	ns.		
Date:	, 20				
$\mathbf{R}_{\mathbf{V}}$					

MANHOLE IMPROVEMENTS CONTRACT
Addendum 1
August 22, 2025
Page 7 of 9

ALLEGHENY COUNTY SANITARY AUTHORITY PITTSBURGH, PENNSYLVANIA

CONTRACT NO. 1816 Manhole Improvements Contract

ADDENDUM 1 August 22, 2025

Attachment C – Revised Article 2 – Information for Bidders

Contract 1816 Addendum No. 1

ARTICLE 2 INFORMATION FOR BIDDERS

ARTICLE 2 INFORMATION FOR BIDDERS

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2.1 DEFINED TERMS

The terms used in this Information for Bidders have the meanings assigned to them in Article 3, General Contract Conditions (the "General Conditions").

Certain additional terms used in the Bidding Documents have the meanings indicated below which are applicable to both the singular and plural thereof.

- A. <u>APPARENT LOW BIDDER</u> is the responsible, responsive bidder whose bid as offered in the bid form represents the lowest total as determined by the Base Bid.
- B. <u>BASE BID</u> is the total of the Base Bid for the Unit Price Work, including Contingent Bid Items, if applicable. No consideration will be given to additive or deductive alternates or other credits in determining the Base Bid.
- C. <u>BID</u> refers to all materials, items and documents included in the Bidder's response to the Owner submitted pursuant to the Contract Documents.
- D. <u>BIDDER</u> is one who submits a Bid to the Owner as distinct from a subbidder, who submits a Bid to a Bidder.
- E. <u>CONSENT DECREE</u> is the legal Consent Decree as approved by ALCOSAN, United States Environmental Protection Agency (EPA), Commonwealth of Pennsylvania Department of Environmental Protection (PaDEP), and the Allegheny County Health Department and entered on January 23, 2008.
- F. <u>SUCCESSFUL BIDDER</u> is the lowest, responsible and responsive Bidder to whom the Owner (on the basis of the Owner's evaluation as hereinafter provided) makes an award.

2.2 GENERAL

The information contained in this Article 2 of the Contract Documents describes the proper form and method for submitting Bids and the accompanying security to the Allegheny County Sanitary Authority (hereinafter referred to as the "Owner"), and provides certain general information regarding the award of the Contract.

Certain provisions throughout this Article may reference certain consultants retained by the Owner such as the Construction Manager, the Consulting Engineer or Final Design Consultant and the Engineering Program Manager and to certain of their duties and responsibilities. If any or all of the above-mentioned consultants are not retained for this Project, their duties and responsibilities shall, unless otherwise specified, be retained by the Director of Regional Conveyance ("Engineer") or the Engineer's written designee.

It is a condition to the Owner's evaluation of the Bid and possible award of the Contract that the Bidder carefully examines all of the Contract Documents and completely satisfies itself as to the nature and location of the Work and all Job Site conditions that may affect performance of the Work. Submission of the Bid by the Bidder is a representation by the Bidder that it has satisfied itself with respect to the foregoing.

Unless all Bids are rejected, and except as otherwise provided by law, award will be made to the lowest responsive and responsible Bidder. The Owner reserves the right to award by item or on a total Lump Sum Price basis, whichever is deemed most advantageous to the Owner. In cases of discrepancies in prices, the unit price will be binding. In any discrepancy between words and figures, the words will take precedence. For Lump Sum Bids, which include an itemized breakdown, the low Bid will be based on the stated Lump Sum Price and the Owner is not required to consider the total value of the itemized breakdown.

The Contract Documents shall be interpreted, construed and enforced in accordance with all applicable laws and regulations of the Commonwealth of Pennsylvania.

2.3 LOCATION AND DESCRIPTION OF WORK

The Work to be done as specified here in **CONTRACT NO. 1816, MANHOLE IMPROVEMENTS CONTRACT** (referred to as the "Work"), specifically includes installation of three new manholes, rehabilitation of four existing manholes, and the installation of new castings and covers on twenty-two (22) existing manholes. Section 2.4 has bid item requirements and measurement and payment for each item.

Details of the scope of work can be reviewed in **Section 01010** Summary of Work.

2.4 DESCRIPTION OF BID ITEMS

The following is a general description of the tasks to be completed under the Contract.

All prospective bidders are advised that access to the various sites is for information only, and the bidder should make any investigation necessary to satisfy himself/herself of the existing conditions. Furthermore, the successful bidder will be responsible for providing the means necessary to access the sites to accommodate his operations at no additional cost to the Owner.

The actual amount of work completed for each pay item may be more or less than the quantity estimated in the Bid Form. Payment will be made according to the quantity of work completed at the respective unit price provided in the Bid Form unless otherwise described below.

Items identified with a "C" prefix (such as C.1, C.2, etc.) are contingent items and the Owner makes no guarantee as to the fulfillment of these contingent items.

The term "manhole" shall encompass other buried sewer access points such as vaults, chambers, and other surface accessible structures.

<u>BID ITEM NO. 1 – BONDS, INSURANCE, AND MOBILIZATION /</u> DEMOBILIZATION (NOT TO EXCEED 5% OF TOTAL BID PRICE):

Payment for "Bonds, Insurance, and Mobilization/Demobilization" shall be made on a LUMP SUM basis not to exceed 5% of the sum of Infrastructure Rehabilitation Work and Contingent Work Bid Items. Mobilization / Demobilization shall consist of costs associated with providing initial services required to mobilize for and commence work on this project as shown in the Contract Documents. Associated costs include, but are not limited to, obtaining all required insurance, bonds and permits; preparatory work and operations necessary for the movement of personnel, equipment, supplies, labor and other incidentals to the work; preparation of construction schedules; sample reports; submittals; health and safety plan; and all other work which must be performed or cost incurred prior beginning work.

The Contractor may request payment for up to 50% of the Mobilization/Demobilization cost in the first invoice; 20% over the remaining invoices, excluding the final invoice; and 30% on the final invoice. The total payment amount for this Bid Item will only be made for 5% of the total contract value.

BID ITEM NO. 2 – INSTALLATION OF NEW MANHOLE 1 (ASSET ID JT0167S01) - COMPLETE:

Payment will be made Lump Sum (LS) unit price for this Bid Item established in the Agreement based upon the amount of Work properly completed by Contractor in accordance with the Contract Documents.

Bid Item 2 includes all costs associated with furnishing and installing New Manhole No. 1 (Asset ID JT0167S01), including but not limited to: sawcutting, excavation, shoring, modification of the existing brick sewer, gunite as necessary, installation of a new doghouse manhole, manhole base slab, manhole casting, tieins and removal of existing sewers, over-excavation, approved backfill, disposal of regulated soils, obstruction removal, supporting and protecting existing utilities, traffic control, flow control, off-site disposal of excess excavated material, intermediate and final grading, and all other materials, labor, and equipment required to complete the work as specified and shown on the Drawings.

BID ITEM NO. 3 – INSTALLATION OF NEW MANHOLE 2 (ASSET ID JT0130L03) - COMPLETE:

Payment will be made Lump Sum (LS) unit price for this Bid Item established in the Agreement based upon the amount of Work properly completed by Contractor in accordance with the Contract Documents.

Bid Item No. 3 includes all costs associated with furnishing and installing New Manhole No. 2 (Asset ID JT013L03), including but not limited to: sawcutting, excavation, site restoration, shoring, modification of the existing brick sewer, gunite as necessary, installation of a new doghouse manhole, manhole base slab, manhole casting, tie-ins and removal of existing sewers, over-excavation, approved backfill, disposal of regulated soils, obstruction removal, supporting and protecting existing utilities, traffic control, flow control, off-site disposal of excess excavated material, intermediate and final grading, and all other materials, labor, and equipment required to complete the work as specified and shown on the Drawings.

BID ITEM NO. 4 – INSTALLATION OF NEW MANHOLE 3 (ASSET ID JT0130L10) - COMPLETE:

Payment will be made Lump Sum (LS) unit price for this Bid Item established in the Agreement based upon the amount of Work properly completed by Contractor in accordance with the Contract Documents.

Bid Item No. 4 includes all costs associated with furnishing and installing New Manhole No. 3 (Asset ID JT013L10), including but not limited to: sawcutting, excavation, site restoration, shoring, modification of the existing sewer, new doghouse manhole, manhole base slab, manhole casting, tie-ins and removal of existing sewers, over-excavation backfill, disposal of regulated soils, obstruction removal, supporting and protecting existing utilities, traffic control, flow control, off-site disposal of excess excavated material, intermediate and final grading, and all other materials, labor, and equipment required to complete the work as specified and shown on the Drawings.

BID ITEM NO. 5 – INSTALLATION OF T-29A-10 CASTING AND LID REPLACEMENTS - COMPLETE:

Payment will be made Each (EA) unit price for this Bid Item established in the Agreement based upon the amount of Work properly completed by Contractor in accordance with the Contract Documents.

Bid Item No. 5 includes all costs associated with furnishing and installing T-29A-10 Casting and Lid Replacements at existing manholes in the ALCOSAN sewer system, including but not limited to the removal of the existing manhole casting and lid, installation of the new casting and lid, clearing and grubbing, erosion and sediment control, traffic control, delivering the removed castings to ALCOSAN,

and all other materials, labor, and equipment required to complete the work as specified and shown on the Drawings.

BID ITEM NO. 6 – REHABILITATION OF MANHOLE 4 (ASSET ID MH0122C01) - COMPLETE:

Payment will be made Lump Sum (LS) unit price for this Bid Item established in the Agreement based upon the amount of Work properly completed by Contractor in accordance with the Contract Documents.

Bid Item No. 6 includes all costs associated with furnishing and installing the required rehabilitation of Manhole 4 including but not limited to the removal of the existing manhole casting, installation of the new casting, removing the brick manhole section, pouring a concrete transition collar, installation of a new precast concrete manhole section, erosion and sediment control, traffic control, restoration, and all other materials, labor, and equipment required to complete the work as specified and shown on the Drawings.

BID ITEM NO. 7 – REHABILITATION OF MANHOLE 5 (ASSET ID MH1107A05) - COMPLETE:

Payment will be made Lump Sum (LS) unit price for this Bid Item established in the Agreement based upon the amount of Work properly completed by Contractor in accordance with the Contract Documents.

Bid Item No. 7 includes all costs associated with furnishing and installing the required rehabilitation of Manhole 5 including but not limited, sawcutting around the manhole (5x5 min), removal of the existing gravel and any base material at the existing manhole, installation of the new base course and bituminous material as shown on the Drawings, erosion and sediment control, traffic control, and all other materials, labor, and equipment required to complete the work as specified and shown on the Drawings.

BID ITEM NO. 8 – REHABILITATION OF MANHOLE 6 (ASSET ID MH0521J08) - COMPLETE:

Payment will be made Lump Sum (LS) unit price for this Bid Item established in the Agreement based upon the amount of Work properly completed by Contractor in accordance with the Contract Documents.

Bid Item No. 8 includes all costs associated with furnishing and installing the required rehabilitation of Manhole 6 including but not limited to the removal of the existing manhole casting and riser section below grade, pouring a concrete transition collar, if required, installation of the new riser sections and a new casting, grading the area to match existing grade, erosion and sediment control, traffic control, restoration and all other materials, labor, and equipment required to complete the work as specified and shown on the Drawings.

BID ITEM NO. 9 – REHABILITATION OF MANHOLE 7 (ASSET ID MH S-39) - COMPLETE:

Payment will be made Lump Sum (LS) unit price for this Bid Item established in the Agreement based upon the amount of Work properly completed by Contractor in accordance with the Contract Documents.

Bid Item No. 9 includes all costs associated with furnishing and installing the required rehabilitation of Manhole 7 including but not limited to the removal of the existing manhole casting and riser section, installation of the new riser section and new casting, grading the area to match existing grade, erosion and sediment control, traffic control, and all other materials, labor, and equipment required to complete the work as specified and shown on the Drawings.

BID ITEM NO. 10 – BULKHEAD 24" OUTLET PIPE AND FLOW FILL OVERFLOW PIPE AT REGULATOR M-60 – COMPLETE:

This item shall include all labor, materials, and equipment necessary to complete the work required at M-60. This item shall include, but not be limited to, site access, bulkheading the M-60 outfall and filling the outfall line with flow fill. This item includes traffic control, coordination with the nearby Edgar Thompson Works, railroad and any needed erosion and sedimentation control measures.

This Item shall be paid on a LUMP SUM basis.

BID ITEM NO. C.11 – EXPLORATORY EXCAVATION:

Work under this item shall include furnishing all labor, materials and equipment to perform exploratory excavation and backfill required at preliminary test pit locations and any other locations directed in the field by the DIRECTOR, including existing utilities in need of relocation by others. This shall include all sheeting, bracing and shoring, unclassified excavation, disposal of excavated material, dewatering, erosion and sedimentation controls, dye testing, temporary sewer repair, aggregate backfill material, removal of shoring and placement and compaction of approved earth or aggregate backfill material as directed.

Assume all excavated material that requires disposal to be disposed as residual fill.

Payment shall be at the unit price bid **PER CUBIC YARD**. Measurement shall be based on the field dimensions of excavated test pit areas.

BID ITEM NO. C.12 – TRENCH EXCAVATION:

Work under this item shall include furnishing all labor, materials, and equipment necessary to perform all unclassified excavation related to sewer construction with the exception of work performed under the exploratory excavation and

backfill pay item. This shall include all unclassified excavation, sheeting bracing and shoring of trench and other utilities, trench dewatering, and disposal of excavated materials to all depths up to fifteen feet deep.

Payment shall be based on the unit price bid. Measurement used for payment shall be in **CUBIC YARDS** and shall be based on the outside diameter of the pipe plus 3 ft of the excavated trench area. For installation of 48-, 60- and 72-inch manholes, payment shall be based on the use of a 10 x 10-foot shoring box placed to the measured field depth.

BID ITEM NO. C.13 – TRENCH EXCAVATION GREATER THAN 15-FEET DEEP:

Work under this item shall include providing all labor, materials and equipment necessary to excavate a sewer trench or manhole to depths greater than fifteen (15) feet.

This item shall include all additional clearing, unclassified excavation, sheeting bracing and shoring, trench dewatering, disposal of excavated materials, removal of material, embankment, and all other requirements necessary to complete the work.

Payment for this item shall be at the unit price bid. Measurement used for payment shall be in **CUBIC YARDS** based on the length of trench, vertical depth of excavation from the surface minus fifteen feet for collector sewers or minus twelve feet for lateral sewers, and the width of trench, which shall be defined as the outside diameter of the pipe plus 3 ft of the excavated trench area.

BID ITEM NO. C.14 – ROCK AND OBSTRUCTION EXCAVATION:

Work under this item shall include furnishing all additional labor, materials, and equipment necessary, over and above those required for unclassified excavation, to excavate and dispose of rock as defined in the specification section titled "Rock Excavation." This item is a supplemental item to the trench excavation items. All associated sheeting, bracing, and shoring, embankment and all requirements necessary to complete the work shall be furnished under the trench excavation pay items.

Assume all excavated material that requires disposal to be disposed as residual fill.

Payment shall be based on the unit price bid **PER CUBIC YARD**. Measurement shall be based on field dimensions of the excavated rock zone area only of the trench.

<u>BID ITEM NO. C.15 – DEBRIS REMOVAL HAULED TO AN APPROVED DUMP SITE:</u>

Payment for "Debris removal hauled to dump site, as directed by ALCOSAN" shall be made **PER TON** and shall include all labor, equipment, materials, and other incidental work necessary to remove and dispose of debris. A certified dump invoice shall be required for all debris removed and disposed of. This item is applicable to heavy cleaning efforts as specified in this Contract. Debris removal shall be considered incidental for all preparatory cleaning activities, or other bid items listed herein.

Measurement for payment of this item shall be in tons based on the unit weight of the actual quantity of dewatered debris disposed of, subject to it passing a paint filter test and receipt of certified weigh slips from an approved disposal site. The contractor will be required to dewater this material prior to taking it to an approved landfill and this will require temporary facilities and boxes for storage. Costs for temporary storage facilities are considered incidental to this work.

All superintendence, labor, materials, equipment, clearing, grubbing and site restoration, filing and acquisition of permits, permit fees, and services described in the specifications or otherwise required to entirely complete all contract work associated with this item shall be considered incidental to this item. Note that some work may occur within existing Port Authority rights-of-ways. Contractor is responsible for all fees, permits, and coordination required to conduct work within the Port Authority right-of-way, which shall be considered incidental to this pay item.

<u>BID ITEM NO. C.16 – PRE-CAST MANHOLE, 0-15 FOOT DEPTH, 48"</u> DIAMETER:

Forty-Eight-inch (48") diameter reinforced concrete manholes shall be furnished as specified and installed at the locations directed in the field. This item shall include concrete base, formed channels, pipe sewer(s) / laterals(s), water stops, precast concrete riser sections including transition sections as appropriate, brick, mortar, steps, straps and anchors, frame and lid castings, connections of existing sewers and all other requirements for a complete installation.

Excavation and backfill for a **ten-foot by ten-foot (10' x 10')** footprint around the manhole will be included in the unit price bid. Additional volume will be considered under the appropriate items.

Payment for manholes shall be made under this item **PER EACH** for manholes particular size diameter installed complete in place. The payment for any additional manhole depth over the basic fifteen feet shall be made under a separate bid item.

BID ITEM NO. C.17 – PRE-CAST MANHOLE, GREATER THAN 15 FOOT DEPTH, 48" DIAMETER:

Forty-Eight-inch (48") diameter reinforced concrete manholes shall be furnished as specified and installed at the locations directed in the field. This item shall include concrete base, formed channels, pipe sewer(s) / laterals(s), water stops, precast concrete riser sections including transition sections as appropriate, brick, mortar, steps, straps and anchors, frame and lid castings, connections of existing sewers and all other requirements for a complete installation.

Excavation and backfill for a **ten-foot by ten-foot (10' x 10')** footprint around the manhole will be included in the unit price bid. Additional volume will be considered under the appropriate items.

Payment for manholes shall be made under this item **PER VERTICAL FOOT** for manholes installed complete in place. The payment for any additional manhole depth over the basic fifteen feet shall be made under a separate bid item.

BID ITEM NO. C.18 – PRE-CAST MANHOLE, 0-15 FOOT DEPTH, 60" DIAMETER

Sixty-inch (60") diameter reinforced concrete manholes shall be furnished as specified and installed at the locations directed in the field. This item shall include concrete base, formed channels, pipe sewer(s) / laterals(s), water stops, precast concrete riser sections including transition sections as appropriate, brick, mortar, steps, straps and anchors, frame and lid castings, connections of existing sewers and all other requirements for a complete installation.

Excavation and backfill for a **twelve-foot by twelve-foot (12' x 12')** footprint around the manhole will be included in the unit price bid. Additional volume will be considered under the appropriate items.

Payment for manholes shall be made under this item **PER EACH** for manholes installed complete in place. The payment for any additional manhole depth over the basic fifteen feet shall be made under a separate bid item.

BID ITEM NO. C.19 – PRE-CAST MANHOLE, GREATER THAN 15 FOOT DEPTH, 60" DIAMETER

Sixty-inch (60") diameter reinforced concrete manholes shall be furnished as specified and installed at the locations directed in the field. This item shall include concrete base, formed channels, pipe sewer(s) / laterals(s), water stops, precast concrete riser sections including transition sections as appropriate, brick, mortar, steps, straps and anchors, frame and lid castings, connections of existing sewers and all other requirements for a complete installation.

Excavation and backfill for a **twelve-foot by twelve-foot (12' x 12')** footprint around the manhole will be included in the unit price bid. Additional volume will

be considered under the appropriate items.

Payment for manholes shall be made under this item PER **VERTICAL FEET** manholes installed complete in place. The payment for any additional manhole depth over the basic fifteen feet shall be made under a separate bid item.

BID ITEM NO. C.20 – MANHOLE PIPE TIE IN CONNECTIONS:

This work shall include all labor and materials necessary to connect piping into a new or existing manhole or pipe structure. This item shall include all approved modification or coring of new or existing structures, sewer pipe, approved water stop(s) or flexible boots, transition and fernco couplings and all associated costs for piping entering a manhole or structure above the standard flow line. This item is not relevant to standard manhole pipe inverts.

Measurement shall be for **EACH** tie in / connection complete.

BID ITEM NO. C.21 – REPLACE CASTINGS:

Work under this item shall include removing and disposing existing casting(s) and furnishing and resetting(s) new casting. See Section 02727 – MANHOLES for casting types. Work includes mortaring and minor masonry work and flexible grade riser rings if directed. This work includes 6 inches of grade adjustment if required.

Measurement and payment shall be EACH casting replaced.

BID ITEM NO. C.22 – MANHOLE RISERS AND CONES:

Work under this item shall include all labor, material and equipment to provide and install additional vertical adjustments to manholes (all sizes). This work shall include removing and disposing of existing manhole sections (s) and furnishing and resetting(s) new/additional sections.

Measurement and payment shall be made **PER VERTICAL FOOT** new installed.

BID ITEM NO. C.23 – CONCRETE ENCASEMENT (ALL TYPES W/REINFORCEMENT):

Concrete encasement (4,000 psi) for pipes and manhole collars/bases shall be furnished and installed at locations directed in the field. These items shall include all formwork, concrete reinforcing, bedding, and all other requirements for a complete installation.

Payment shall be at the unit price bid for the cubic yards installed complete in place. Measurement for payment shall be **PER CUBIC YARD** based on the volume within the concrete forms.

BID ITEM NO. C.24 – APPROVED AGGREGATE, TO INCLUDE TRENCH BACKFILL, ABOVE PIPE ZONE:

Work under this item shall include furnishing and installing all approved coarse aggregate material in accordance with the specifications for the entire sewer trench and manhole work areas. This item shall include all coarse aggregate backfill material (AASHTO #1 thru #10 to include #57 and #67), placement and compaction of backfill material, and removal of sheeting, bracing and shoring devices from the top of the pipe zone area (twelve-inches above pipe) to the street base bottom elevation.

Payment shall be made at the unit price bid **PER CUBIC YARD**. Measurement shall be made from elevation twelve inches above the crown of the pipe to the street sub-grade elevation and the field trench width dimensions.

BID ITEM NO. C.25 – SELECTED EARTH BACKFILL:

Work under this item shall include furnishing and installing all approved select earthen backfill material in accordance with the specifications for the entire sewer trench and manhole work in non-street areas or as directed in the field. This item shall include all earthen backfill material, placement and standard regulation compaction of earthen backfill material, and removal of sheeting, bracing and shoring devices from the top of the pipe zone area (twelve inches above pipe) to the surface elevation. The ENGINEER shall determine in the field if excavated material can be reused as suitable select earthen material.

Payment shall be at the unit price bid **PER CUBIC YARD**. Measurement shall be made from elevation twelve inches above the crown of the pipe to the street sub-grade elevation and the field trench width dimensions.

BID ITEM NO. C.26 – EXISTING PAVEMENT DEMOLITION, REMOVAL, AND DISPOSAL:

Work under this item shall include furnishing all labor, equipment, and material necessary to sawcut, mill and/or demolish, clean milled/demolished pavement section and dispose of paved areas waste material as directed. This item applies to streets, driveways, parking areas, sidewalks and curbs, and is to extend through the full depth (up to 18 inches) of the paving section to include the base material.

Work shall also include installing and maintaining traffic worthy temporary plating and asphalt paving, plus replacement or repair of damaged curb, covers, grates, frames, and boxes as directed.

Measurement shall be based on the square yards of paving area removed. Payment shall be based on the unit price bid **PER SQUARE YARD**.

BID ITEM NO. C.27 – PERMANENT BITUMINOUS PAVEMENT REPLACEMENT (ALL TYPES):

Work under this item shall include providing and installing Approved Permanent Asphalt Courses (Base course, leveling, binder, wearing, Superpave) as required by the applicable municipality or PENNDOT to match the existing pavement when required to restore pavement areas. All permanent bituminous material shall be supplied by the Contractor any supplier shall be an approved supplier to the municipality or PENNDOT.

Work under this item shall also include tack coat and sealing materials. Work also includes maintenance of permanent paving for **30 calendar days** after restoration takes place. The Contractor shall furnish his own equipment and labor to haul and place all materials. Duplicate load slips of bituminous material must be provided for each truck load and submitted to the Owner's field representative.

Measurement for payment of this item shall be in tons based on the unit weight of asphaltic material, the length and width of the pavement replaced, and the existing pavement thickness. The work shall include matching all pavement replacement to existing grade. Joint material and traffic zone paint to match existing are incidental to this item.

Payment shall be based on the unit price bid **PER TON**.

BID ITEM NO. C.28 – CONCRETE PAVING BASE AND PAVEMENT W/REINFORCEMENT:

Work under this item shall include furnishing all labor, equipment, and material necessary to replace pavement areas to match existing for the full pavement section depth including Street Subbase and Concrete Paving Base or Concrete Street Replacement. Joint material and traffic zone paint to match existing are incidental to this item. Any Permanent bituminous overlay, bituminous base course or other bituminous product installed shall be paid for under separate unit priced item.

Measurement and payment shall be **PER CUBIC YARD**. The quantity measured for compensation shall be the computed volume of cement concrete placed in the reinforced street pavements in accordance with the contract plans or as ordered by the DIRECTOR in the field. No payment will be made for concrete in excess of the existing street slab(s) dimensions unless ordered to be placed by the DIRECTOR/PROJECT REPRESENTATIVE in the field.

BID ITEM NO. C.29 – SIDEWALKS, DRIVEWAYS AND CURBING:

Work under this item shall include furnishing all labor, equipment, and material necessary to replace existing sidewalks (to include handicapped ramps), driveways and curbs to match existing. Joint material and traffic zone paint to match existing are incidental to this item.

Measurement and payment shall be based on the **SQUARE YARDS** of area replaced.

BID ITEM NO. C.30 – TEMPORARY COLD PATCH BITUMINOUS PAVEMENT:

Work under this item shall include providing and installing all temporary bituminous pavement disturbed by sewer construction to match the existing pavement when required to restore pavement areas for temporary traffic use. All Cold Patch bituminous material shall be as supplied by the Contractor.

Work under this item shall also include tack coat and sealing materials. Work also includes maintenance of cold patch paving, and removal and hauling of cold patch material when final restoration takes place. The Contractor shall furnish his own equipment and labor to haul and place all materials. Duplicate load slips of bituminous material must be provided for each truck load and submitted to the Owner's field representative.

Measurement for payment of this item shall be in tons based on the unit weight of asphaltic cold patch material, the length and width of the pavement temporarily replaced, and the existing pavement thickness. The work shall include matching all pavement replacement to existing grade.

Payment shall be based on the unit price bid **PER TON**.

BID ITEM NO. C.31 – TRAFFIC CONTROL, FLAGPERSON:

This item shall include furnishing and maintaining signage and/or electronic Arrow Board Devices in accordance with PENNDOT Publications 408 and 203 and at locations required by the Contractor's approved Maintenance and Protection of Traffic (MPT) Plan, obstruction permit or designated by the OWNER's Field Representative. It is the CONTRACTOR's responsibility to select the appropriate equipment and crews (including flaggers) for maintaining traffic controls and protection associated with the work.

This item shall also include supplying and maintaining any and all signage, cones, barrels, channeling devices that are required to comply with the approved MPT plan.

Payment shall be based on the unit price bid. Measurement for payment shall be based on the number of actual operating hours per device necessary to complete the work.

Payment for this item will be **PER HOUR (HR)**.

BID ITEM NO. C.32 – TRAFFIC CONTROL, LAW ENFORCEMENT OFFICER (LEO):

Payment for "TRAFFIC CONTROL, LAW ENFORCEMENT OFFICER (LEO)" shall be paid PER HOUR (HR), and shall include all labor, equipment, materials, filing and acquisition of permits, permit fees, and other incidental work necessary to perform the work in accordance with PENNDOT publications 408 and 213, with the Contractor's approved Traffic Control Plan, and as required by local laws and regulations.

Measurement for payment shall be based on (1) the actual number of man hours that traffic control is provided by a local law enforcement officer during manhole work or sewer cleaning and / or inspection when the occurrence is greater than four hours, or (2) a value of four hours when the hours of service per occurrence is four hours or less. The contractor will not be compensated for travel and set-up / break-down time of the traffic control measures.

Use of local law enforcement officers to direct and control traffic will be used to supplement incidental traffic control measures in areas that require more complex traffic control measures and as required by PENNDOT and local municipal or county laws and regulations.

"Incidental Traffic Control" includes traffic controls that require simple traffic control measures such as traffic cones, barrels, channelizers, and minor signage to guide traffic around Contractor vehicles and personnel. The cost for these traffic control measures associated with this item shall be considered incidental to this Bid Item.

BID ITEM NO. C.33 – TRAFFIC CONTROL, ARROW BOARD:

This item shall include furnishing and maintaining electronic Arrow Board Devices in accordance with PENNDOT Publications 408 and 203 and at locations required by the approved Maintenance and Protection of Traffic Plan, obstruction permit or designated by the Owner's Field Representative.

This item shall also include supplying and maintaining any and all signage, cones, barrels, channeling devices that are required to comply with the approved MPT plan.

Payment shall be based on the unit price bid. Measurement for payment shall be based on the number of actual operating hours per device necessary to complete the work.

Payment shall be based on the unit price per HOUR (HR).

BID ITEM NO. C.34 – CUTTING CONSTRUCTION ACCESS ROADS W/RESTORATION:

Work under this item shall include furnishing all labor, materials and equipment to Construction Access Roads and Restoration (to include Rock Construction Entrances) for stream and/or structure access as shown on the Erosion & Sedimentation Control Plans. This unit price is for cut roads where earth displacement and ground stabilization is necessary, and includes restoration work including rock removal, clean fill and grading to match existing slopes. Additional Stone and Aggregate for a Rock Construction Entrance shall be considered incidental to this item.

Method of payment shall be at the unit price bid **PER SQUARE YARD**.

BID ITEM NO. C.35 – LANDSCAPE RESTORATION:

Work under this item shall include furnishing all labor, materials and equipment to finish grade, seed and mulch or hydro-seed landscapes and vegetative areas that were disturbed to obtain site access or construct Owner-approved access roads. This item also includes yard, fence, shrubbery and/or sapling (3 inch diameter) replacement to match each shrub or tree removed, and temporary seeding and mulching without additional compensation. Finish grading includes furnishing topsoil and removing foreign matter and rock (2" and greater), as directed by the Owner. Work under this item must comply with the permitting agency, property owner and ALCOSAN requirements and shall be in compliance with the approved Erosion & Sedimentation Plan.

All areas disturbed at slopes greater than 3: 1 (horizontal to vertical), inaccessible areas, all unimproved areas, and disturbed areas deemed appropriate for the hydroseeding application by the Owner, shall be hydroseeded with approved mix design. Sowing shall be done by an approved method of hydroseeding. Alternate means of fertilization in combination with seeding will be permitted in inaccessible areas and upon approval by the Owner.

Measurement shall be based on the field dimensions of the area restored by hydroseeding, in square yards. Method of payment shall be at the unit price bid **PER SQUARE YARD**.

<u>BID ITEM NO. C.36 – EROSION CONTROL BLANKETS (AS DIRECTED):</u>

Work under this item shall include furnishing all labor, materials and equipment to provide and place an erosion and sedimentation control blanket in accordance with the approved E&S Control Plan. This item shall include approved aggregate backfill (2A or approved), hydro-seed, ballast stone, topsoil, filter fabric, geotextile, and Erosion Control Blanket. Work under this item must comply with the permitting agency, property owner, and ALCOSAN requirements.

Method of payment shall be at the unit price bid PER SQUARE YARD.

BID ITEM NO. C.37 – SILT SOCKS (AS DIRECTED):

Work under this item shall include furnishing all labor, materials and equipment to install and maintain silt socks at locations depicted on the Erosion and Control Plans or as directed, in the field.

Measurement shall be based on the field dimensions of the installed quantity end to end in Lineal Feet.

Method of payment shall be at the unit price bid **PER LINEAR FOOT**.

BID ITEM NO. C.38 – CLEARING AND GRUBBING:

Work under this item shall include furnishing all labor, materials and equipment for clearing and grubbing consisting of the removal of all saplings, brush, trees, stumps, tree roots, ground cover, and old structures or obstructions from the site of the work, which will be required to be removed for access to the planned construction site.

Measurement shall be based on the field dimensions of the cleared/grubbed area, in square yards. Method of payment shall be at the unit price bid **PER SQUARE YARD**.

BID ITEM NO. C.39 – LABORER W/ COMPRESSOR, UTILITY TRUCK AND MISCELLANEOUS TOOLS:

Payment quantities for this item shall be **PER HOUR** on the job site and shall include the required equipment, operator and labor. No payment will be made for travel time. Any other incidental costs associated with this bid item shall be included in the **PER HOUR** on job site unit price. Work under this item is subject to approval of the DIRECTOR or DIRECTOR's representative in the field.

BID ITEM NO. C.40 – MISCELLANEOUS WORK FOR A FULL TIME CREW:

This item shall cover all expenses involved in having a crew of workers and equipment at a site performing miscellaneous work, not specified by other unit priced items, and as directed by the Owner.

If this item is used for time spent waiting by a crew as a result of actions by and directed by the Owner, the item shall cover all expenses involved in having a crew of workers and equipment at a site prepared to conduct work but unable to work due to circumstances outside of their control. Delays which are usual and a customary part of manhole or pipe installation will not be paid for under this item and are considered incidental to the work of installing the pipe. Measurement for

payment shall be based on the actual number of hours spent performing the indicated work.

Payment shall be **PER HOUR** for a full crew(s); labor and equipment cost for work and/or time spent on-site which is not defined by any other contract unit prices. A full crew is defined to consist of: foreman, front-end loader with operator, dump truck with operator, excavator with operator, two laborers, plus support work truck and hand tools.

BID ITEM NO. C.41 – EXTENSIVE HAND DIGGING AND TUNNELING:

This item may be directed by the Owner to determine subsurface conditions at a structure beyond the scope of the construction required by the bid items and contingent bid items described elsewhere. This item includes the use of a truck and hand tools and is authorized only when directed by the Owner.

This item is intended for use only in extreme situations and at the discretion of the Owner. Typically, only those situations that require at least 8 man-hours of digging will be considered for payment. This item shall include all materials, equipment and rental, tools, and labor required to hand dig or tunnel for extended periods under existing vaults, etc., or near existing fragile equipment. Hand digging which is a usual and customary part of pipe and manhole installation will not be paid for under this item and is incidental to the work of installing the pipe.

Measurement for payment shall be based on the actual number of hours spent performing the indicated work. Payment shall be based on the unit price **PER MAN HOUR**.

BID ITEM NO. C.42 – RAILROAD PROTECTIVE LIABILITY INSURANCE:

Measurement and payment will be made by the unit price bid **PER EACH OCCURANCE**.

This item will include all costs for obtaining Railroad Protective Liability Insurance as described in **Article 3** of the contract specifications. Any administrative or miscellaneous costs associated with obtaining said insurance will be incidental to this item.

BID ITEM NO. C.43 – ADDITIONAL DEWATERING OR BYPASS PUMPING W/UP TO AN 8" PUMP W/BACKUP AND 400 FEET OF HOSES AND FITTINGS:

Payment will be **PER HOUR**, by the hours of operation completed, as directed. This item is intended for use only in extreme situations and at the approval and direction of the Owner. Pumping associated with normal dewatering or bypass pumping, shall be considered incidental to the unit price excavation work. Pump

size can vary up to 8" as directed.

The CONTRACTOR shall be responsible for any and all pumping required for continuous bypass pumping, <u>as directed</u>, at selected work locations, no matter what the source of the water. Sources include but are not limited to accumulated precipitation, encountered ground water, and sewage back-up. Work under this item shall include furnishing and connecting any and all piping, pump(s), plugs and appurtenances, as may be necessary, to facilitate the by-pass pumping. Work also includes recessing the line and furnishing and placing bituminous material to permit traffic to drive over the line at intersections and driveways. This item also includes maintaining pumps and lines continuously, and all highway or pedestrian traffic control devices while in service. Also, removing lines when complete and restoring street or sidewalks. The length of suction and discharge hose included in this item is 400 feet.

<u>BID ITEM NO. C.44 – ADDITIONAL FUSED PIPE, HOSES AND FITTINGS:</u>

Work under this item shall include furnishing all labor, equipment, and material associated with furnishing additional HDPE fused pipe, hoses and fittings, as directed in the field.

Payment of this item shall be **PER LINEAR FOOT**.

BID ITEM NO. C.45 – CCTV INSPECTION WITH PIPE LOCATOR EQUIPMENT, ALL DIAMETERS:

Payment for "CCTV INSPECTION WITH PIPE LOCATOR EQUIPMENT, ALL DIAMETERS" shall be made by the unit price bid PER HOUR (HR). Measurement shall be based on the length of time spent using CCTV inspection and locating equipment as directed.

The unit price shall include furnishing all labor, materials, and equipment required to locate sewer pipe defects, buried structures, or other features as directed utilizing internal CCTV inspection and locating equipment in accordance with the Contract Documents. Inspection shall be performed in accordance with NASSCO PACP. Work under this item shall include locating pipe defects, buried structures, or other features with CCTV inspection and locating equipment; marking the extents features at surface with green marking paint, coding defects in accordance with NASSCO PACP; and all other requirements necessary as shown on the Contract Documents including applicable drawings or as directed in the field.

BID ITEM NO. C.46 – DYE TESTING OF EXISTING SEWER (INCLUDES CCTV AND /OR PUSH CAMERA):

Payment for "DYE TESTING OF EXISTING SEWER (INCLUDES CCTV AND /OR PUSH CAMERA)" shall be made PER HOUR, and shall include all labor,

equipment, material and other incidental work necessary to perform the work.

Payment for this Bid Item will be determined based on the number hours the Contractor spends conducting connectivity dye test of sewers. All work associated with the travel to and from the site, locating the manholes, light cleaning, or any other labor, materials, or equipment required to complete the inspection as specified shall be considered incidental.

Work under this bid Item shall be performed in accordance with Specification Section 02700 – DYE TESTING.

All superintendence, labor, materials, equipment, incidental traffic control, filing and acquisition of permits, permit fees, and services described in the specifications or otherwise required to entirely complete all contract work associated with this item shall be considered incidental to this Bid Item.

"Incidental Traffic Control" includes traffic controls that require simple traffic control measures such as traffic cones, barrels, channelizers, and minor signage to guide traffic around Contractor vehicles and personnel. Cost for these traffic control measures associated with this item shall be considered incidental to this Bid Item.

Payment shall be PER HOURS (HR).

BID ITEM NO. C.47 - ADDITIONAL HYDROVAC-TRUCK 12 YARD CAPACITY FOR DEBRIS, 1800 GALLON WATER TANKS, 2,000 PSI, 250 GPM HIGH VELOCITY SEWER CLEANING, AS DIRECTED:

Payment quantities for "Additional Hydrovac Truck, 12 Yard Capacity for Debris, 1800 Gallon Water Tanks, 2000 psi, 250 GPM High Velocity Sewer Cleaning, As Directed" shall be PER HOUR ON JOB SITE and shall include the required equipment, operator, and labor. No payment will be made for travel time. Any other incidental costs associated with this bid item shall be included in the PER HOUR ON JOB SITE unit price. Work performed shall be performed as referenced in the specifications. Work under this item is subject to the approval of the DIRECTOR or DIRECTOR's representative in the field.

Note: If this pay item is utilized after a segment has been televised as a deliverable, CONTRACTOR shall be paid for the re-televised segment at the appropriate linear foot rate.

BID ITEM NO. C.48 – ADDITIONAL FITTINGS (PVC)

Work under this item shall include furnishing all labor, equipment, and material associated with furnishing additional PVC Fittings, as directed in the field.

Payment of this item shall be **PER EACH**.

BID ITEM NO. C.49 – FLOWABLE FILL

Payment will be made by the unit price bid **PER CUBIC YARD** complete in place.

Measurement shall be based on three-dimensional methods.

Basis of Payment: Includes formulating, furnishing, and placing flowable fill material into locations directed in the field. The CONTRACTOR shall place flowable fill in abandoned sewer lines having a diameter of eight (8) inches or greater, or as directed in the field. Work under this item shall include, but not be limited to, all equipment, labor, materials formulation cost, cement, fly-ash, fine aggregate, additives, plugs, temporary bulkheads, excavation, water fees, testing, location mapping, and proper disposal of all unsuitable and surplus materials.

ITEM NO. C.50- R-5 RIP RAP GROUTED IN PLACE

Work under this item shall include furnishing all labor, equipment, and material associated with excavation and the placement of stone rip-rap, grouted in-place installation as directed in the field.

Measurement shall be based on the square yards of rip-rap installed complete in place, at a minimum thickness of eighteen-inches (18").

Payment shall be based on the unit price bid PER CUBIC YARD.

ITEM NO. C.51 thru C.55 - SEWER PIPE TYPES, VARIOUS SIZES

Work under this item shall include furnishing all labor, materials and equipment to install all sewer pipe in accordance with the specifications at the depths and grades directed in the field. This item shall include placement of bedding and backfill material in the pipe zone area. The supplying and installation of any fittings shall be considered incidental to this Work. Pipe zone is defined as the area between an elevation 1/4 O.D. of pipe diameter or minimum six inches under the pipe invert to twelve inches over the top of the pipe for the length of pipe measured. Erosion and sedimentation control measures, along with sewer cleaning and televising and any required bypass pumping, shall be incidental to this Work.

Payment shall be made by the unit price bid **PER LINEAR FOOT** per type of pipe. Measurement for SEWER PIPE shall be based on the laying length of pipe installed from centerline of manhole to centerline of manhole minus one-half of the diameter of each manhole.

BID ITEM NO. C.56 – SOIL TESTING, STORAGE, AND DISPOSAL:

Work under this item shall include the furnishing of all labor, equipment and materials to complete testing of contaminated soil as directed by the Owner and as

defined in the Management, Handling, and Disposal of Excavated Soil and Other Excavated Material Specification Section 02860. Containment testing shall be in accordance with all applicable local and state codes.

Payment of this item shall represent Contractor's cost for all labor, material, overhead, and profit associated with work performed under this allowance. If the final cost exceeds the allowance amount specified, then the overage will be added to final payment. If the final cost is less than the allowance amount, then the cost differential will be subtracted from the final amount of the contract.

The Contractor shall submit a detailed cost breakdown, receipts and backupas a basis for payment. Testing and other information shall be submitted to the Owner for review upon request prior to the start of any work on this pay item.

Payment for this item will be made as part of an ALLOWANCE as used.

2.5 BYPASS PUMPING

Unless specifically included in other Bid Items, the Contractor will, at all times, be required to bypass pump and will be paid separately for this work. It will be the responsibility of the Contractor to have a bypass pumping system that will handle all flows.

Bypass pumping - When applicable, the Contractor shall supply the pumps, conduits, and other equipment necessary to divert the flow of sewage around the pipe segment(s) and associated structure(s) in which work is to be performed. The bypass system shall be of sufficient capacity to reduce the flows to acceptable levels for CCTV inspection or handle all flows for CIPP Lining. The Contractor will be responsible for furnishing all necessary labor and supervision to set up and operate the bypassing system including provisions for traffic control, if required.

When flow in a sewer line is bypass pumped, sufficient precautions shall be taken by the Contractor to protect the sewer lines from damage that might result from sewer surcharging. Further, precautions must be taken to ensure that sewer flow control operations do not cause flooding or damage to public or private property being served by the sewers involved. In no case shall bypass pumping of a line result in either a direct or indirect discharge from the sewer.

Flow data will be provided to the Contractor to determine average/peak daily flow rates at the locations where bypass pumping is required. The Contractor's use of this information is at their own risk and expense and should be field verified as necessary in developing bypass pumping plans. See Technical Section 02080 Bypass Pumping for minimum bypass pumping requirements to be provided in this Contract.

2.6 DEBRIS DISPOSAL

Debris from the work shall be disposed of at the following locations, or other locations approved by Owner:

- A. Allied Waste, Route 980, 11 Boggs Road, Imperial PA 15126. The landfill is open weekdays from 12:00 AM to 3:30 PM. The contact is Bernie Wilson phone number is (724) 695-0900.
- B. Waste Management, 600 Thomas Street, Monroeville PA 15146. The contact is Vicky Oakes phone number is (412) 824-0678.
- C. Kelly Run Sanitation, 1500 Hayden Blvd., Elizabeth, PA 15037. The contact is Jim Ambrose phone number is (412) 384-7569 (ext. 115)

Waste Disposal Manifests will be obtained from ALCOSAN. Contractors are responsible for setting up a separate account for billing.

2.7 SUBMISSION AND OPENING OF BIDS

Bids shall be submitted on the Bid Form which is attached hereto and shall state the proposed price of the Work (typewritten or in ink), both in words and in figures. Bids must be signed in ink. Bids that are not so priced and signed will be rejected.

The Bid must be submitted intact, sealed and delivered in an envelope accompanied these Contract Documents, addressed to the Allegheny County Sanitary Authority, ALCOSAN Engineering Department, Attn: Contract Clerks, 3300 Preble Avenue, Pittsburgh, PA 15233. The Bidder's name and address shall be marked in the upper left hand corner and the words "SEALED BID FOR CONTRACT NO.1816, MANHOLE IMPROVEMENTS CONTRACT" shall be clearly marked in the lower left hand corner of the sealed envelope. Hand delivered Bids shall be delivered to the Guard House located at 3300 Preble Avenue, Pittsburgh, PA 15233. The envelope shall also bear notation to clearly indicate all Addenda received by its identifying numbers and dates received. It is the responsibility of each Bidder to make sure that its Bids are received by the Owner prior to the date and time set for opening of the Bids. Upon Bidder's failure to comply with the foregoing, the Owner WILL treat the Bids as "nonresponsive" and return them to the Bidder unopened. Bids will be received at the office of the Owner until 2:00 P.M. prevailing time on August 27, 2025, at which time and place said Bids will be opened publicly and read aloud.

Bids must be firm. If a Bid is submitted with conditions or exceptions or not in conformance with the terms and conditions of the Contract Documents, it may be rejected. The Bid may also be rejected if the product or Work offered by the Bidder is determined by the Owner not to be in substantial conformance with the Contract Documents including the Specifications.

Bidder shall not detach and submit Bid pages separately but shall submit their Bids bound with the complete volume of Contract Documents, including all pages correctly assembled.

The Bid should be properly executed and accompanied by all Bonds, Certificates, Questionnaire Forms and other supporting information and documents, as described in the Bid Form.

2.8 SUPPLEMENTARY INFORMATION PACKAGE

- A. After the Bid opening, upon request of the Owner, the Apparent Low Bidder shall be required to submit, prior to the award of the contract, quadruplicate copies of a Supplementary Information Package as described in this Section. The request shall be made solely for the purposes of the Owner's evaluation and review of all proposed materials, equipment, and items of work and determination of conformance with the Contract Documents.
- B. The Supplementary Information Package shall include all such documentation as may be required elsewhere in the Contract Documents and all data and information deemed appropriate by the Bidder to completely describe its respective offering including but not necessarily limited to the following items:
 - 1. The information requested in the Information for Bidders Section 2.28 entitled "Qualifications and Experience of Bidders."
 - 2. List of all Subcontractors, with information also demonstrating compliance with Section 2.28 and this Section 2.9, as applicable.
 - 3. Applicable Inspection and Cleaning Experience to include References (Names, Entity, Address, Contract Name/Value, and Phone Numbers)
 - 4. Qualifications and Licensures of the Engineering Professional conducting bypass pumping layout and calculations.
- C. Upon failure to provide all the supplemental information requested in the Contract Documents, the Owner may (at its discretion) treat the Bids as nonresponsive and the Bids may be rejected for this reason alone.
- D. The Contractor shall clearly demonstrate his approach to cleaning and inspection prior to award.

2.9 SPARE PARTS AND SPECIAL TOOLS

This section is intentionally omitted from this Contract.

2.10 AWARD, CONTRACT EXECUTION AND NOTICE TO PROCEED

The Owner may reject all Bids. The Owner may, solely in its own discretion, award the Contract to the lowest responsive and responsible Bidder within sixty (60) calendar days from the date of Bid opening. A time extension may be made by the written mutual consent of the Owner and the Apparent Low Bidder.

All Bids will remain open for acceptance by Owner for Sixty (60) calendar days after the Bid opening.

In the event a Bidder fails, refuses, or neglects to provide any requested information or documents within the time stated in the Contract Documents, the Owner will have the right to reject its Bid as nonresponsive.

The Notice to Proceed will be made by registered letter mailed to the Awarded Bidder and shall be effective the date of receipt of the mailing. The Owner will endeavor to issue the Notice to Proceed within ninety (90) calendar days of the Bid opening and thirty (30) calendar days after the Contract is awarded. Any delays caused by the Awarded Bidder's failure to provide any required documents within the specified time may, at the Owner's option, cause an equivalent number of days to be added to these timeframes. The Awarded Bidder will commence performance immediately upon receipt of the Notice to Proceed. The Awarded Bidder should not order any materials or equipment or make any financial commitments concerning this Contract until receiving the Notice to Proceed. Awarded Bidders that do Work or prepare to do Work prior to receiving the Owner's Notice to Proceed are proceeding at their own risk.

2.11 CONTRACT DOCUMENTS

Contract Documents may be obtained at the office of the Allegheny County Sanitary Authority, 3300 Preble Avenue, Pittsburgh, PA 15233. A fee of \$100.00 (delivered by check or money order, no cash will be accepted) shall be required for each set of Contract Documents obtained. If the Owner is requested to mail the Contract Documents, the above fee as well as a check or money order or the like (no cash will be accepted) must be submitted to the Owner in advance to cover delivery charges ("Cost Advance"). In such case, delivery instructions must be included in the request and only the amount received in excess of the \$100.00 fee will be applied to delivery charges. If the Cost Advance is insufficient, the Bidder should anticipate that the Owner will not transmit the Contract Documents. No part of the Cost Advance will be refunded.

Submission of a Bid constitutes a representation by the Bidder to the Owner that the Bidder has reviewed the Contract Documents in their entirety and has analyzed all applicable provisions, terms, conditions and sections and related information in preparation of its Bid. This representation is a material inducement for the Owner's consideration of the Bidder for this Contract.

2.12 "OR-EQUAL" ITEMS

Whenever a product is defined in the Contract documents by trade name and catalog number of a manufacturer or vendor, the term "or-equal," if not inserted therewith, shall be implied. Any reference to a particular manufacturer's product either by trade name or by limited description is solely for the purpose of more clearly indicating the minimum standard of quality desired, except where a "no substitute" is requested. When a "no substitute" is requested, the Owner will consider Bids for the referenced product only. The term "or-equal" is defined as meaning any other make which, in the sole opinion of the Owner, is of such character, quality and performance equivalence as to meet the standard of quality and performance of the products specified and is such that offering the "or-equal" will not, in the Owner's opinion, constitute a change of the Project.

2.13 ALTERNATE ITEMS

Alternate Bids are optional and are not in lieu of furnishing a Base Bid for the actual Work specified. During the Bid review procedure, the Alternate may be considered in determining the low responsive, responsible Bidder. The review of the Bids will be based upon the specified Work. The Owner may, but need not, analyze the Alternate for acceptability until after the award of the Contract. The decision of the Owner with regard to the acceptability shall be final.

2.14 QUESTIONS REGARDING CONTRACT DOCUMENTS/ERRORS

In general, no answer will be given to prospective Bidders in reply to an oral question if the question involves an interpretation of the intent or meaning of the Contract Documents, or the equality or use of products other than those designated or described in the Contract Documents. Any information received by Bidders other than by means of the Contract Documents or by Addenda, as described herein, is given informally, for the information and convenience of the Bidder only and is not guaranteed, is without legal effect and may not be used to bind or otherwise obligate the Owner. The Bidder agrees that such information shall not be used as a basis of, nor will the giving of any such information entitle the Bidder to assert, any claim or demand against the Owner.

To receive consideration, any question, inquiry or request for interpretation or clarification shall be submitted to the Construction Manager in writing, at least ten (10) calendar days prior to the advertised date for receipt of Bids. The Owner will review all such questions or requests and may issue Addenda, which will become a part of the Contract Documents, to provide interpretation, clarification or to answer issues or questions so raised which, in the opinion of the Owner, require formal responses. Copies of all Addenda will be delivered or sent, prior to the advertised date for receipt of Bids, to all prospective Bidders known to have received the Contract Documents. Addenda will be delivered by messenger or sent by certified mail, return receipt requested, to prospective Bidders or their

designated agents, at the addresses given by them. At its option, the Owner may transmit Addenda by facsimile.

If any alleged errors are noted in the Contract Documents, Bidder should immediately notify, in writing, the Construction Manager and, if confirmed, Addenda will be sent to all prospective Bidders known to have received the Contract Documents.

2.15 REFERENCE INFORMATION

All information given in the Reference Information or in the Contract Documents relating to existing conditions is from the sources presently available to the Owner. All such information is furnished for the information and convenience of Bidders and is not guaranteed. All prospective Bidders agree that as a condition for Owner's review of its Bid that said information shall not be used as a basis for asserting any claims or demands against the Owner. It is understood by all prospective Bidders that they shall be responsible for determining the exact conditions prior to bidding and that they shall not be compensated for what they may feel is extra work because of their failure to discover conditions they could have discovered upon investigation.

2.16 BIDDERS TO INVESTIGATE

Bidders are required to submit their Bids upon the following express conditions which will apply to and be deemed a part of every Bid received:

- A. Bidders must satisfy themselves, by personal examination of the Job Site and by such other means as may be necessary or helpful as to the actual and exact conditions existing, the character and requirements of the Work and the difficulties attendant upon its execution and analyze all laws and regulations which may affect the Work. On written advance request, the Construction Manager will provide each Bidder reasonable access to the Job Site to conduct such explorations and tests (at Bidder's own expense) for submission of a Bid. Bidder shall fill all holes and clean up and restore the Job Site to its former condition upon completion of such explorations.
- B. If any discrepancies should be found between existing conditions and the Contract Documents, prospective Bidders shall report these discrepancies to the Construction Manager for clarification prior to submitting a Bid. Failure of the Bidder to recognize Job Site conditions that affect the Work shall not be considered sufficient cause for an increase in the Contract Price.
- C. The submission of a Bid will constitute an incontrovertible representation of Bidder that Bidder has and will comply with every term, condition and requirement of the Contract Documents and that the Contract Documents are sufficient in scope to convey all terms, conditions and requirements for performance and furnishing of the Work.

2.17 APPROXIMATE ESTIMATE OF QUANTITIES

Any estimate of quantities of Work to be done and Materials to be furnished in these Contract Documents is an approximation and is given only as a basis of calculation upon which to determine the lowest Bidder. The Owner does not assume any responsibility for the quantities. The Bidder specifically agrees not to plead misunderstanding or deception because of such estimates, or of the character of Work or location, or other condition pertaining thereto.

By executing this contract, Contractor agrees that:

- A. Quantities. The quantities given on the contract plans or in the supplemental specifications for the various items of Work are approximate estimates of the amount required to complete this contract, with the exception of certain items designated as contingent items on the contract plans or supplemental specifications for which the extent and location could not be approximately ascertained prior to the commencement and actual progress of the Work and for which nominal quantities are given in unit prices under which Contractor shall do the Work to the extent and in the location ordered, subject to the limitations stipulated in this Section.
- B. Estimates. Contractor is satisfied with the estimates given on the contract plans or on supplemental specifications for determining the prices for which it agrees to do the Work required by this contract. Contractor will not at any time dispute or complain of such estimates nor assert that there was any misunderstanding in regard to the nature of the Work. Contractor further agrees that the extent and location indicated on the contract plans for the several items of the Work are approximate only with the exception of contingent items which are nominal and that it will do the Work under the several items included in this contract in conformity with orders given by the Owner regardless of changes in extent or location, subject however to the limitations and qualifications hereinafter in paragraphs (c) and (d) of this section and that payment made at respective unit prices bid for work performed in conformity therewith shall be full compensation.
- C. Quantity of Contingent Items. Contingent items of Work shall be done when ordered by the Engineer and shall be paid for at the contract unit bid price. The purpose of the contract items designated in the bid form as "C" is to establish unit prices for work not included in other bid items. The Engineer has the right to order that contingent work be provided in smaller or larger quantities than the estimated quantity indicated in the Bid Form. The Contractor shall not have any right to demand payment for, and will not be paid for, any costs associated with the item, including, but not limited to overhead and profit, due to the fact that the item was not used in the work or was used in smaller or larger quantities than those indicated in the bid form. The Contract Sum shall be subject to adjustment according to final measured quantities and the unit prices in the bid will apply to such final

quantities.

D. <u>Diminished, Extra Work and Omissions.</u> The Owner shall have the right to order extra Work and alterations including but not limited to, alterations in alignment, grade, arrangement, plans, details, quantity and quality of the Work or materials as required by the Contract Documents or to omit any part thereof. All such alterations, extra Work or omissions shall be ordered in writing by the Owner. The Owner, however, need not issue a written order to partially or entirely eliminate contingent items of work.

2.18 HAZARDOUS AND OTHER CONTAMINATED MATERIALS

To the best of the Owner's knowledge, there are no known instances where the work will require contact with any hazardous materials. Should contaminated materials be discovered during the course of work, its removal will be undertaken in accordance with the Change Order provisions in the General Conditions

2.19 ACKNOWLEDGMENT OF ADDENDA

Bidders shall acknowledge receipt of all Addenda and signify same by attaching signed copies of each Addendum to the Contract Documents submitted along with their Bid, and by noting each Addendum received, by its identifying number and date received, on the face of its sealed Bid envelope.

2.20 RISK OF LOSS/BID PRICES

All prices quoted shall include material delivered or obtained by the Bidder to or for the Owner F.O.B. at the Job Site. All transportation charges shall be prepaid, and the risk of injury, damage or loss in transit shall be borne by the Successful Bidder.

Such injury, damage or loss shall not release the Successful Bidder from any contractual obligations imposed in the Contract Documents. For Owner-Furnished Equipment to be installed under this Contract, prices quoted shall include materials, equipment and labor to load, transport and unload such items from the Owner's storage area to the Job Site, including all risks for damage of this equipment from the time these items are turned over to the Successful Awarded Bidder until the completion of the Contract.

2.21 TAX EXEMPTIONS

The Bidders shall take notice of and shall be responsible for any local or State taxes levied and applicable, and the costs for the same shall be included as part of this Bid. Sales to the Owner may be exempt from Pennsylvania Selective Sales and Use Taxes. Certain of the Bidder's tax obligations are described in more detail in Section 3.22 of the General Conditions entitled, "Sales and Use Tax."

2.22 BID SECURITY/CONTRACT EXECUTION

Bids shall be accompanied by a Certified Check or properly executed Bid Bond on the form included herein, with corporate surety approved to do business in the Commonwealth of Pennsylvania and satisfactory to the Owner and with valid Power of Attorney attached, in the amount of not less than Ten percent (10%) of the total Lump Sum Price quoted under the Bid, payable to the Allegheny County Sanitary Authority, as security that the Bidder, if awarded the Contract, shall enter into a written Contract with the Owner, on the form included herein, and supply to the Owner all required Bonds and all other documents, materials or items required to be executed, delivered or supplied by it.

Upon failure on the part of such Bidder to enter into a written Contract with the Owner (and return all required documents to the Owner, including Performance and Payment Bonds and Insurance Certificates, etc., after proper execution) within ten (10) calendar days (not including Sundays or Legal Holidays) from the date of mailing of such Contract to it at the address given in its Bid, such defaulting Bidder and its Surety shall be liable to the Owner for the damages sustained by the Owner by reason of such default. In such event, the Bidder's liability shall not be limited to the amount of the Bid security which accompanied its Bid. If the Bid security were a certified check, such check shall be cashed by the Owner and deposited forthwith to the Owner's account. If the Owner's actual damages are less than the amount deposited, the excess shall be returned to the defaulting Bidder. No allowance for interest or the like shall be paid or payable by the Owner on any Bid security.

The Bid security of any Bidder that the Owner believes may receive the award may be retained by the Owner until the earlier of the tenth calendar day after the Effective Date of the Contract or the sixty-first calendar day after the Bid opening.

2.23 WITHDRAWAL OR MODIFICATION OF BIDS

The attention of Bidders is directed to the fact that, in submitting its Bid, the Bidder agrees that it will not withdraw it within sixty (60) calendar days after the actual date of opening of Bids or for one hundred twenty (120) calendar days if so permitted under applicable law, or for such longer period as may be agreed to by the Bidder. Upon submission of a proper request to the Owner, in writing, and identification of the one making the request, a Bid may be withdrawn, at any time prior to the designated time for the opening of Bids. Certain Bids may be withdrawn after the Bid opening if in compliance with the Act of January 23, 1974, P.L. 9 No. 4 §1 et seq. 73 P.S. §1601 et seq. entitled, "Public Contracts - Withdrawal of Bids" (for purposes of this Section, the "Act") subject to the limitations and conditions contained therein. Included in the provisions of the Act is a requirement that the Bidder present credible evidence to the Owner within two (2) working days after opening the Bids of a clerical mistake, as opposed to a judgment mistake, that was actually due to an unintentional and substantial arithmetical error or an unintentional omission of a substantial quantity of work, labor, material or services made directly in the compilation of the Bid.

Unless a Bid has been formally withdrawn as provided above, it shall be deemed open for acceptance until the Contract Agreement has been executed by both the Bidder and the Owner or until the Owner manifests that it does not intend to accept the Bid. Notice of acceptance of any one Bid shall not constitute rejection of any other Bid or a manifestation that Owner does not intend to accept any other Bid.

Any Bidder may modify its Bid by telegraphic or facsimile communication at any time prior to the scheduled closing time for receipt of Bids, provided that such telegraphic or facsimile communication is received by the Owner prior to such closing time and, further, provided that a written confirmation of the telegraphic or facsimile communication, over the signature of the Bidder, was postmarked prior to such closing time. Telegraphic or facsimile modifications shall not reveal the Bid price but shall provide the amount(s) to be added to, subtracted from, or other modifications necessary to be made to the prices or terms of the Bid, so that the final prices or terms will not be known to the Owner until the sealed Bid is opened. If the required written confirmation is not received by the Owner within two (2) calendar days (excluding Sundays or Legal Holidays) from the closing time, the Owner may, at its option, refuse to consider or give legal effect to such telegraphic or facsimile communication.

2.24 MORE THAN ONE BID

If more than one Bid is offered by any one Bidder in its own name or in the name of his agent, partner, or other person, then all but the lowest of such Bids will be rejected.

2.25 ALTERATION OF BIDS AND DOCUMENTS

No alteration, erasure, addition or omission of required information, or any change of the Contract Documents is permitted, except in accordance with the provisions of Section 2.15 hereof entitled, "Questions Regarding Contract Documents/Errors."

2.26 RIGHT TO REJECT OR ACCEPT BIDS

The Owner reserves the right, which is understood and agreed to by all Bidders, to reject any or all Bids; to waive any informality, nonmaterial change or clarification in any part or provision of the submitted Contract Documents; or to accept any Bid, should the Owner determine that it is in its best interest to do so. The Owner's decision on the qualification of any Bidder or the adequacy, responsiveness, propriety or timeliness of the Bid and/or its decision to reject any or all Bids or to accept any Bid shall be final, binding and uncontestable as to the Bidder.

Any part of the Bid submitted by the Bidder which is unintelligible, or which exhibits any erasure or other manipulation, or is not properly signed or otherwise made up, will, at the discretion of the Owner, be considered nonresponsive and may be rejected for that reason alone.

The Owner may consider the qualifications and experience of subcontractors, suppliers, and other persons and organizations proposed for those portions of the Work as for which the identity of subcontractors, suppliers, and other persons and organizations is requested in the Contract Documents or made by the Bidder.

2.27 QUALIFICATIONS AND EXPERIENCE OF BIDDERS

Each Bidder must be regularly engaged in and have at least ten (10) years of experience in, the type of work specified herein and meet the experience requirements outlined in the Specifications. The Contractor shall supply a complete record of experience for the following:

- A. The project installation list of all past sewer manhole installation and rehabilitation installed in the past five (5) years and respective state in which the work was performed. This project list shall include at least five (5) projects successfully completed by the prime Contractor that are similar in scope and type to the required. This project list should include new manholes installed on large diameter existing brick sewers in an urban setting.
- B. Foreman Qualifications Foreman of the crew shall have at least five (5) years of experience in the field of sewer manhole rehabilitation, and submit documentation of training certifications, and a list of completed projects.
- C. The Company performing the work must certify that it meets the experience requirements outlined in the Specifications for each type of Work required. The Contractor shall submit a detailed record of experience to the Owner within ten days of the bid opening date.
- D. A minimum of ten (10) years of experience in the field of sewer manholes rehabilitation and installation on large diameter brick sewers. The Contractor will have to demonstrate that within the past five (5) consecutive years prior to the bid, as a prime contractor, the Contractor has successfully performed in a timely manner at least five (5) projects similar in scope and type to the required work.
- E. A minimum of ten (10) years of experience in manhole rehabilitation and resumes for Contractor's on-site foremen/supervisors that demonstrate a minimum of five (5) years of experience in the rehabilitation of manholes. The Contractor shall submit a list of locations and references of other projects within the last five (5) years where the proposed products or installers were used for similar applications. The inability to furnish references within the last five years may be considered cause for rejection of products and/or installers.

The Contractor shall provide the Construction Manager with a complete list of Subcontractors whom the Contractor proposes to use prior to the commencement of Work. Subcontractors hired for work will have to adhere to, and supply complete records for, the qualifications described in this section.

No award will be made to any Bidder who cannot warrant, and upon request cannot demonstrate, that it possesses the knowledge, experience, skill, capital, financial capacity, charters, licenses, permits, patents and personnel necessary to satisfactorily enable it to prosecute and complete the Work successfully and perform the Work within the Time For Completion as set forth in the Contract Provisions. The Owner's decision or judgment on these matters will be final, conclusive and binding. The Owner may make such investigations as it deems necessary and the Bidder shall furnish to the Owner, under oath if so required, all such information and data for this purpose as the Owner may request.

2.28 MINORITY AND WOMEN'S BUSINESS ENTERPRISE AND LABOR SURPLUS AREA POLICY

It is the policy of the Owner to award a fair share of contracts to minority and women's businesses. The goal of the Authority is that 10 to 25 percent of all dollars relating to its contracts be awarded to minority or women's business enterprises. The Owner will make every effort to meet that goal in its contracts as well as encourage that goal among its contractors, suppliers and their subcontractors.

The Owner uses affirmative steps to assure that minority and women's businesses are used when possible as sources of supplies, equipment, construction, and services. The Owner encourages its contractors and suppliers to take the same measures when recruiting Subcontractors. Affirmative steps include the following:

- A. Including minority and women's businesses on solicitation lists and contacting them whenever they are potential sources.
- B. Use of area newspapers that serve minority or women's groups for advertising for contracts when work permits. A statement of this policy will be included in the ad text.
- C. Use of minority or women's business associations to contact businesses of this type. A list of these organizations is maintained at the Authority.
- D. Dividing total requirements when economically feasible into small tasks or quantities to permit maximum participation of minority and women's businesses.
- E. Establishing delivery schedules when the requirements of the Work permit that will allow these businesses to participate.
- F. Requiring each party to a sub-agreement to take the affirmative steps listed above.
- G. Procuring goods and services from labor surplus area firms.

Further information concerning this matter may be obtained from the Owner.

2.29 FICTITIOUS NAME REGISTRATION

Where the Bid is made by an individual or individuals doing business under a fictitious name, there shall be attached to the Bid, Certificates from the Office of the Secretary of the Commonwealth and from the Prothonotary 's Office showing that each individual or individuals are fully registered under the Fictitious Names Act of the Commonwealth of Pennsylvania 1982, Dec. 16, P.L. 1309, No. 295 § 2, 54 Pa. C.S.A. § 301, et. seq. Additional Certificates, in as many copies as may be required shall be furnished to the Owner by the successful Bidder prior to the execution of the Contract.

2.30 NON-PENNSYLVANIA CORPORATIONS

Attention is directed to the fact that if the Bidder is a non-Pennsylvania corporation, it shall obtain a Certificate of Authority to do business in Pennsylvania, as required by the Pennsylvania Business Corporation Law of 1988, approved December 21, 1988, P.L. 1444, No. 177 § 103 amended, 1990, Dec. 19, P.L. 834, No. 198, § 102, 15 Pa. C.S.A. § 4121.

2.31 PRE-BID CONFERENCE

A Pre-Bid Conference will be held via at ALCOSAN Operations and Maintenance Building, Room 106 on August 13, 2025, at 10:00 Eastern Standard Time. Access will be made available to those who request access prior to the meeting and/or receive the bidding documents.

2.32 PATENTS AND PROPRIETARY RIGHTS

Prior to bidding, the Bidder shall acquire through assignment, purchase, license, or other means, all rights required to fully utilize all technology, know-how, trade secrets, inventions, processes, articles, procedures, equipment, apparatus, devices, or any part thereof, and any and all things or matters that are to be used in pursuance of its performance under the terms and conditions of this Contract. Under no circumstances may the Bidder infringe on any patent or any other proprietary rights of third parties in its performance under the terms and conditions of this Contract.

In the event that the Owner shall have any reason to believe that any Bid or performance of this Contract will in any way infringe on any patent or proprietary rights of third parties, the Owner may, at its sole discretion, reject any such Bid or take such other measures that it deems to be in its best interest (including requiring the Bidder to post security). The Bidder will defend, indemnify and save harmless Owner, and all persons acting for or on behalf of Owner, from all claims and liability of any nature or kind, including costs and expenses, arising from or occasioned by any infringement or alleged infringement of patent or proprietary rights on any technology, know-how, trade secret, invention, process, article,

procedure, equipment, apparatus, device, or any part thereof, to be furnished, utilized or installed by said Bidder, or arising from or occasioned by the use or manufacture thereof, including their use by the Owner. Patents and Proprietary Rights are discussed in more detail in the Contract Provisions.

2.33 MATERIALS

Submittals of a Bidder constitute a representation by the Bidder that all specified materials and equipment will be available in time for the timely completion of this Contract. The Awarded Bidder is responsible for making sure that the progress of the Work is orderly and timely. The Awarded Bidder's duties and responsibilities are discussed in more detail in the General Contract Conditions.

2.34 LIST OF MAJOR SUBCONTRACTORS/SUPPLIERS

The Bidder shall submit for approval a list of all subcontractors employed on the Work, whose work to be performed is anticipated to be in excess of One Hundred Thousand Dollars (\$100,000.00), or five percent (5%) of the Lump Sum Price, whichever is greater, with a list of Work they are to perform. Bidders are advised that they must submit a complete list of subcontractors, as requested. Failure to provide this information will, at the Owner's election, make the Bid nonresponsive or constitute a breach of the awarded Contract. The Bidder is also cautioned that should the Contract be awarded to it, it must use the subcontractor named in its list of subcontractors for each of the items listed, unless otherwise directed in writing by the Owner.

2.35 NEW OR REMANUFACTURED EQUIPMENT

This section is intentionally omitted from this Contract.

2.36 ALCOSAN CONSENT DECREE

Bidders are advised that Contract No. 1816 is being completed in accordance with all terms and conditions of the legal Consent Decree as approved by Allegheny County Sanitary Authority (ALCOSAN), United States Environmental Protection Agency (EPA), Commonwealth of Pennsylvania Department of Environmental Protection (PaDEP) and the Allegheny County Health Department. The Bidder, if awarded the Contract, will be acting as an Agent of ALCOSAN and as such will be legally bound to the terms, conditions and provisions as set forth in the Consent Decree.

2.37 SAFETY: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS

IN THE EXECUTION OF THIS CONTRACT, ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH FEDERAL OCCUPATIONAL SAFETY AND HEALTH STANDARDS AS SET FORTH BY THE

OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (PL 91-596) AND UNDER SECTION 107 OF THE CONTRACT WORK HOURS AND SAFETY STANDARDS ACT (PL 91-54).

The Authority will not be liable for any citations received by the Contractor from OSHA. It is the sole responsibility of the Contractor to comply with OSHA Standards.

2.38 CONFINED SPACE ENTRY REQUIREMENTS

Any work within existing manholes, diversion structures, and access shafts will be classified as "Confined Space" and will require complete compliance with current OSHA and ALCOSAN Standards.

2.39 ACCESS TO WORK AREAS

The Contractor is responsible for obtaining all necessary permits and the corresponding fees needed for the Work and the transporting of any equipment or material over private property and public streets. It is further the Contractor's responsibility to obtain the necessary permits and/or permission from the various municipalities, Commonwealth of Pennsylvania, and/or owners of private properties. The cost of construction or improvement of any access route to the project site(s) shall be the responsibility of the Contractor.

At the conclusion of the Work, at the Contractor's expense, the Contractor shall restore all access routes, and all other areas disturbed due to the Work, to their original state prior to the Work.

2.40 SPECIAL NOTICE REGARDING MAINTENANCE AND PROTECTION OF TRAFFIC

Streets shall not be unnecessarily obstructed and the Contractor shall take such measures as may be necessary to keep the street or road open and safe for traffic. The Contractor shall be responsible for obtaining all necessary permits and the fees associated with these permits.

2.41 COMPLIANCE WITH LAWS

The Contractor shall comply with the regulations of all regulatory agencies having jurisdiction including, but not limited to, EPA, PaDEP, OSHA regulations, US Army Corps of Engineers, US Coast Guard, ACHD, and the Allegheny County Soil Conservation District regulations. No bypassing of sewage, as a result of the Contractor's operations, shall be allowed. Also, in order to perform the obligations set forth in the Contract and the Work, the Contractor shall be responsible for becoming familiar with the obligations and requirements of the Consent Decree and shall perform the Work in a manner so as not to cause the Owner to fail to perform, violate, or untimely perform, any obligation or requirement of the Consent Decree.

Also, from time to time, the Contractor may be requested to, and shall, provide the Owner with verifications and/or other documents which relate to the Work and which may be required by, and/or necessary for, the Consent Decree, and/or to attest to and/or verify the accuracy and/or completeness of the Work or documents or submittals provided in regard to the Work.

2.42 ACCESS TO MANHOLES AND STRUCTURES

Where access to the various manholes and structures must be cleared of heavy vegetation, the Contractor shall perform the clearing of pathways to facilitate mobilization of his equipment. Any vegetation or other debris cleared by the Contractor shall be removed and disposed of properly by the Contractor.

2.43 PROPERTY CLEANING

Immediately upon completion of any work, it shall be the Contractor's responsibility to clean the entire area of all debris. All debris is to be disposed of properly.

2.44 CONTRACTOR NOT TO OPERATE EXISTING VALVES AND/OR OTHER EXISTING SYSTEM APPURTENANCES

The Contractor shall schedule, maintain, and coordinate all activities and shall cooperate with the Owner's personnel so that a minimum of interruption results. The Contractor shall not operate existing system valves, sluice gates, controls, or other appurtenances at any time, but when the same is needed to facilitate and accommodate activities, he shall request such operation from the Owner. The Contractor shall provide the Owner with reasonable advance notice for such assistance.

2.45 SPECIAL NOTICE REGARDING WATER USE

All bidders' attention is drawn to the fact that the Contractor shall be responsible for all use and obtainment and payment for all permits and payments required for such use in order to acquire water for cleaning and construction purposes on this project. Owner makes no representations regarding the availability of source water or any other utilities required for this project.

2.46 PROJECT LABOR AGREEMENT AND LETTER OF ASSENT

A Project Labor Agreement, which includes a letter of Assent, is included herein.

The Bidder shall, when executing the Contract Agreement, acknowledge that it will abide by the Project Labor Agreement by signing and submitting a Letter of Assent in the format given in Attachment A.

The Contractor shall require each Subcontractor to execute a copy of the Letter of Assent. The Contractor must be sure that each Subcontractor has furnished an

executed copy of the Letter of Assent to the CM before the Subcontractor starts work on the Project. The Contractor shall abide by and ensure that each Subcontractor abides by the terms of the Project Labor Agreement.

MANHOLE IMPROVEMENTS CONTRACT
Addendum 1
August 22, 2025
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ALLEGHENY COUNTY SANITARY AUTHORITY PITTSBURGH, PENNSYLVANIA

CONTRACT NO. 1816 Manhole Improvements Contract

> ADDENDUM 1 August 22, 2025

Attachment D – Technical Specifications – Section 01010 – Summary of Work (Revised)

Contract 1816 Addendum No. 1

SECTION 01010 SUMMARY OF WORK

PART 1 GENERAL

1.1 GENERAL

- A. The work in this Contract will be constructed by the Contractor to meet the requirements of the Contract Documents. The following organizations may be present at the Job Site and have responsibilities described generally in Article 3, General Contract Conditions:
 - 1. Construction Manager (CM) (if designated).
 - 2. Engineer.
 - 3. Contractor.
 - 4. Supplier.
 - 5. Owner (ALCOSAN).
- B. The Owner is identified as the responsible entity for certain actions in the sections of Divisions 1 through 16. The Owner may elect to delegate certain of these respective duties and responsibilities to the aforementioned organizations.
- C. All contact between the Contractor and the remaining aforementioned parties shall be through the Construction Manager.
- D. Bid Items 2,3,4,6.7, 8, 9 and 10 under this contract are site-specific lump sum items for work described in the drawings and specifications. Bid Item 5 is a site-specific item for each installation. The remaining payment items under this contract are contingency items. Payment for contingency items will be made based upon installed quantities. No additional payment will be made for unused or underutilized items. No additional payment will be made for items installed in excess of the contingent bid item quantity.
- E. See Section 01025 MEASUREMENT AND PAYMENT for additional details.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

- A. The following is a general description of the work to be done under this Contract, unless noted otherwise, and is in no way meant to limit or restrict the Work required under this Contract. See Article 2 for a description of the bid items.
- B. This contract is for the installation of new sewer manholes and the rehabilitation of existing sewer manholes at locations in the ALCOSAN sewer system. In addition

to that, this contract is for bulkheading the M-60 outfall and filling the outfall line with flow fill. The contract is also an indefinite delivery indefinite quantity (IDIQ) contract for manhole repairs, as needed.

C. Scope of Work

The following scope of work applies to this Contract.

- 1. The work shall include but not be limited to the following:
 - a. Furnishing of all labor, tools, equipment and materials, and performing all operations in connection with the installation, modification or repair of sewers, manholes, or other ALCOSAN owned and operated facilities are designated by the OWNER.

The work also includes:

- a. All maintenance of traffic and protection of public safety, to include compliance with the Project Highway Occupancy Permit, and submission of applicable permits for road or lane occupancies or closures, and guiderail removals/restorations. This also includes coordination with railroads, construction and restoration of rail crossing sites and any applicable permit fees and railroad flagging requirements.
- b. Compliance with any supplied erosion & sedimentation control permit, NPDES and PADEP permit requirements. This includes construction and maintenance of all erosion and sedimentation systems and also includes access roads, cofferdams, bypass pumping, and pumping filter systems. Construction of access roads includes clearing and grubbing, cut and fill operations, rock construction entrances and site restorations (seeding and mulching, hydroseeding, landscape restoration, and Erosion & Sedimentation control blankets).
- c. Proper transportation and disposal of all construction debris and waste as identified by the Owner at approved licensed disposal facilities and any applicable waste disposal fees.
- d. Bypassing of all sewage flows around the particular sewer segments designated for manhole construction or manhole/sewer line

- reconstruction if necessary to complete the rehabilitation without sewage discharges.
- e. Site dewatering and cofferdam construction.
- f. Preparing applicable permit applications when access, sequencing or other procedural changes are requested by the Contractor.
- g. Coordination with private property owners and adjacent property owners to public property for access to structures, photographic and video documentation of the work site prior to the start of the Work, and restoration of staging and work areas.
- h. Surveying for elevations or as/necessary to verify location may be required at any time and shall be considered incidental.
- i. Obtaining existing utilities locations through the Pennsylvania One Call System, Pennsylvania 811.
- 2. Contractor shall perform all other work related to the items listed above to provide a complete and functional system and restored project site.

1.3.1 DESCRIPTION OF RESPONSIBILITIES

- A. CONTRACTOR: As described in these Contract Documents and as follows:
 - 1. Project Manager/Site Superintendent: On site at all times when Work in individual Contract is proceeding. The Owner reserves the right to approve the Contractor's proposed Project Manager and Site Superintendent. If at any time during the execution of the Contract the Owner determines that the Contractor's Project Manager and/or Site Superintendent are not executing the work in conformance with the Contract Documents, the Owner may request in writing that they be replaced. Contractor's Project Manager / Site Superintendent shall not be replaced without written notice to Construction Manager except under extraordinary circumstances. The Superintendent will be the Contractor's representative at the site and shall have authority to act on behalf of the Contractor. All communications to the Superintendent shall be as binding as if given to the Contractor. If at any time during the Project the Superintendent leaves the Project site while Work is in progress, the Construction Manager shall be notified and provided with the name of the Contractor's representative having responsible charge.
 - 2. Quality Control Representative: Responsible for Contractor's quality

control program while Work is in progress. Notify the Construction Manager of any change in quality control assignment.

- 3. Safety and Protection:
 - a. Initiate, maintain, and supervise all safety precautions and programs in connection with the Work. Take all necessary precautions for the safety of, and provide the necessary protection to prevent damage, injury, or loss to:
 - 1) All persons on the work site or who may be affected by the Work;
 - 2) All the Work and materials and equipment to be incorporated therein, whether in storage on or off the site; and
 - Other property at the site or adjacent thereto, including but not limited to trees, shrubs, lawns, walks, pavements, roadways, structures, utilities, and Underground Facilities not designated for removal, relocation, or replacement in the course of construction.
 - b. Comply with all applicable Laws and Regulations of any public body having jurisdiction for safety of persons or property or to protect them from damage, injury, or loss.
 - c. Before any work at the site is started, the Contractor shall prepare a written Project-specific Safety Plan (including precautions and programs) and submit to the Construction Manager for review and record as received. The Contractor shall correct any deficiencies identified by the Construction Manager prior to the start of the Work. Review of the Contractor's Safety Plan and the Contractor's field work activities by the Construction Manager does not relieve the Contractor for any omissions or errors in the Contractor's Safety Plan. Per Article 3.67 of the General Contract Conditions, the Owner may direct work determined to be unsafe to stop until the unsafe conditions have been corrected. The Construction Manager may act as the Owner's Representative in directing unsafe work to be corrected.
 - d. Contractor shall revise the Contractor's Safety Plan at appropriate times to reflect changes in construction conditions, the Work, Contractor's means, methods, techniques, and sequences and procedures of construction. All revised Contractor Safety Plans will be submitted to the Construction Manager for record.
 - e. Safety Representative: The Contractor shall designate a qualified and experienced safety representative at the site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

The Safety representative shall be trained in First Aid and CPR. These qualifications shall be submitted to the Construction Manager prior to beginning work on site.

- f. Confined Space Supervisor: The Contractor shall designate a qualified and experienced confined space supervisor to ensure compliance with the requirements identified in the Contractor's Safety Plan and Article 3.73 Compliance with Health, Safety and Environmental Laws of the General Contract Conditions. One copy of the daily Confined Space Record will be submitted to the Construction Manager by the workday following the workday where a confined space entry is required.
- g. Emergencies: In emergencies affecting the safety or protection of persons or the work or property at the site or adjacent thereto, each Contractor, without special instruction or authorization from Owner or Construction Manager, is obligated to act to prevent threatened damage, injury or loss. Contractor shall give the Construction Manager prompt written notice if the Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby. If the Construction Manager determines that a change in the Contract Documents is required because of the action taken by the Contractor in response to such an emergency, the Construction Manager will proceed in accordance with Article 3, General Contract Conditions.

B. Owner (ALCOSAN):

- 1. Enter into legal contract with Contractor for completion of the Work.
- 2. Approve contract amendments, progress payments, and make final acceptance of the Work.
- 3. Participate in coordination of site construction activity.
- 4. Participate in training, testing and startup activity.

C. Construction Manager (CM):

- 1. Assist the Contractor's coordination of on-site construction activities with private property owners, adjacent property owners to public property, and assist the Contractor in obtaining applicable permits.
- 2. Construction Contract Administration.
- 3. Construction inspection services.
- 4. Coordinate training, testing and startup activity.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

01010 - Appendix A

Date

SITE SPECIFIC SAFETY PLAN (SSSP) TEMPLATE

Cover Page

- Company Name
- Address or coordinates
- Site Specific Safety Plan
- Project Name/Number
- Date

Table of Contents

- 1. Purpose
- 2. Scope of Work
 - a. Identify steps of the work
 - b. Hours of Operation Project

3. Site Specific Safety Plan

- a. Spill Leak Prevention and Response
 - i. Identify location of Chemical Inventory (SDSs) ex: Tool Trailer, Job Office, Foreman Truck
- b. Hazard Recognition and Mitigation (Define *all project* hazards and steps to mitigate)

i. Examples:

- 1. Hot Work
- 2. Confined Space Entry
- 3. Fall Hazard Control and Protection
- 4. Arc Flash Protection (70E) using correct PPE
- c. Minimum Required PPE
- d. Fire Control
- e. Dust Control
- f. Housekeeping Program
- g. Evacuation Plan
- h. Rescue Plan (if applicable)
- i. Traffic Control School Bus Curfews, Speed Limits, etc.
- j. Utility Locate Verification (if applicable)
- k. COVID-19 Plan (consistent with ALCOSAN protocols)

4. Contact information - Names / Contact Info.

a. Contractor

- i. Operations Manager
- ii. Project Supervisor
- iii. Safety Manager
- iv. Foreman
- b. Subcontractor(s)
 - i. List Company Name and Contact Person
- c. Alcosan
 - i. Engineers
 - ii. Construction Manager
 - iii. Loss Control Manager
 - iv. Safety Specialist
 - v. Security

5. Injury and Incident Response Plan

- a. Owner Emergency Procedures/Notification
 - i. All cases
 - ii. First aid cases
 - iii. Severed of life-threatening injuries
- b. Important information
 - i. GPS Coordinates
 - ii. Emergency Contact Information
 - 1. Hospital(s) Contact Information
 - a. Map Route to Hospital

6. Training - What types of work should include specific regulatory training

- a. Examples:
 - i. Hot work
 - ii. Confined Space
 - iii. Fall Protection
 - iv. Hazard Communication
 - v. LOTO
 - vi. Housekeeping
 - vii. Equipment

7. Acknowledgment Form

a.	"I acknowledge the SSSP for	_ has been reviewed and explained
	to me"	

Note: Plan to be reviewed with General Contractor and Subcontractors

- i. Print name
- ii. Signatures
- iii. Date

8. Attachments

- a. Training Documents for specific work listed
- b. Safety Data Sheets (SDS) for all chemicals brought onto site
- c. Proof of CCO certification for all crane operators
- d. Required blank (contractor owned) forms to be completed
 - i. Examples:
 - 1. Hot Work
 - 2. Tailgate Safety Meeting (TSM) / Job Safety Analysis (JSA)
 - 3. Confined Space Entry
 - 4. Excavation Daily Inspection
 - 5. LOTO

9. Additional Comments/Notes

END OF SECTION

MANHOLE IMPROVEMENTS CONTRACT Addendum 1 August 22, 2025 Page 9 of 9

ALLEGHENY COUNTY SANITARY AUTHORITY PITTSBURGH, PENNSYLVANIA

CONTRACT NO. 1816 Manhole Improvements Contract

ADDENDUM 1 August 22, 2025

 $Attachment \ E-Contract \ Drawings$

Contract 1816 Addendum No. 1

Allegheny County Sanitary Authority 3300 Preble Avenue Pittsburgh, PA 15233

Contract No. 1816 MANHOLE IMPROVEMENT CONTRACT



MEMBERS OF THE BOARD

Shannah Tharp-Gilliam, Ph.D. - Chairperson

Rep. Emily Kinkead - Vice-Chairperson

Sylvia C. Wilson

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Darrin Kelly - Secretary

Datriale I Catana

Harry A. Readshaw

- Assistant Secretary/Treasurer

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Theresa Kail-Smith

- Board Member

Arletta Scott Williams

- Executive Director

Michael Lichte, P.E.

- Director of Regional Conveyance

7/31/25

7/31/2025

DRAWING INDEX SHEET No. DRAWING No. DRAWING DESCRIPTION 1816-G-001 COVER SHEET, INDEX OF DRAWINGS and VINCINITY MAP 1816-G-002 GENERAL NOTES, ABBREVIATIONS and LEGEND MANHOLE SCHEDULES 1816-G-003 SITE PLAN - MANHOLE 1 (JT0167S01) 1816-C-001 SITE PLAN - MANHOLE 2 (JT0130L03) 1816-C-002 SITE PLAN - MANHOLE 3 (JT0130L10) 1816-C-003 1816-C-004 REHABILITATION PLAN - MANHOLES 4, 5, 6 and 7 T-29A-10 CASTING & LID REPLACEMENTS LOCATION MAP DOGHOUSE MANHOLE DETAIL - EGG-SHAPED BRICK PIPE 1816-C-007 DOGHOUSE MANHOLE DETAIL - STANDARD E&S CONTROL STANDARD DETAILS 1 of 2 E&S CONTROL STANDARD DETAILS 2 of 2 1816-C-010 STANDARD DETAILS 1 OF 2 STANDARD DETAILS 2 OF 2 **RESTORATION DETAILS 1 OF 3** 15 1816-C-012 1816-C-013 RESTORATION DETAILS 2 OF 3 1816-C-014 RESTORATION DETAILS 3 OF 3

100% DRAWINGS

PROJECT LOCATION:

NEW DOGHOUSE MANHOLES 1, 2 and 3

MANHOLE REHABILITATION LOCATIONS 4, 5, 6 and 7

▲ T-29A-10 CASTING & LID REPLACEMENTS

ALCOSAN STANDARD REVISION MAY 2025

APPROVED

EXECUTIVE DIRECTOR DATE

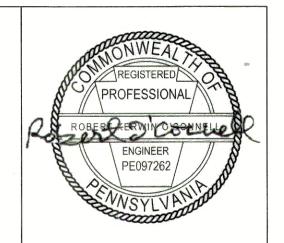
8-5-25

DIRECTOR OF REGIONAL CONVEYANCE

MANAGER OF CAPITAL PROJECTS, CONVEYANCE

AECOM

436 SEVENTH AVENUE, SUITE 1200
PITTSBURGH, PA 15219
(412) 395-8888



DESIGN SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

1"

IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY.



GENERAL NOTES:

- 1. THE CONTRACTOR IS ENCOURAGED TO MAKE AN ON-SITE INSPECTION OF THE AREAS REQUIRING REHABILITATION OR REPLACEMENT TO IDENTIFY ANY RELATED CONDITIONS THAT MAY IMPACT THEIR WORK, INCLUDING ACCESS REQUIREMENTS PRIOR TO BIDDING THE PROJECT. SUBMISSION OF A BID SHALL SERVE AS THE CONTRACTORS ACKNOWLEDGEMENT OF THE CONDITIONS REQUIRED TO COMPLETE THE WORK.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL REQUIRED DEWATERING OF WORK LOCATIONS, NO MATTER WHAT THE SOURCE OF THE WATER. SOURCES INCLUDE BUT ARE NOT LIMITED TO ACCUMULATED PRECIPITATION, ENCOUNTERED GROUND WATER AND RIVER WATER.
- 3. ANY PORTION OF ANY WORK IN THIS CONTRACT THAT COMES INTO CONTACT WITH POTABLE WATER MUST BE IN FULL COMPLIANCE WITH PENNSYLVANIA CODE 109.606.
- 4. ALL ELEVATIONS, INVERTS, AND DIMENSIONS SHOWN ARE APPROXIMATE AND MAY NOT REFLECT EXACT FIELD CONDITIONS, CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ANY AND ALL DIMENSIONS, ELEVATIONS, LOCATIONS, AND SITE CONDITIONS
- 5. ALCOSAN SHALL OBTAIN THE GP-11 AND E&S PERMITS, THE CONTRACTOR SHALL OBTAIN ALL OTHER PERMITS REQUIRED BY FEDERAL, STATE, AND LOCAL AGENCIES FOR THE PERFORMANCE OF THE WORK OF THIS CONTRACT AND FOR DISPOSAL OF ANY SPOIL MATERIAL, DEBRIS, ETC. ALL WASTE MATERIAL, INCLUDING BROKEN CONCRETE OR OTHER DEMOLITION PRODUCTS OR CONSTRUCTION BY-PRODUCTS SHALL BE REMOVED FROM THE WORK SITES AND TRANSPORTED BY THE CONTRACTOR, AT HIS/HER EXPENSE, TO FINAL DISPOSAL
- 6. THE OWNER RESERVES THE RIGHT TO SALVAGE ANY MATERIALS REMOVED FROM THE CONSTRUCTION SITE. ANY MATERIALS NOT SELECTED FOR SALVAGE BY THE OWNER BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE SITE AS EXPEDITIOUSLY AS POSSIBLE. IN ALL CASES WHEN AN ITEM IS TO BE DISPOSED OF THE CONTRACTOR IS TO TRANSPORT THE OBJECT TO BE DISPOSED OF AT AN APPROVED DISPOSAL SITE WITHOUT ADDITIONAL COMPENSATION.
- 7. CONTRACTOR SHALL NOTE THE PRESENCE OF OVERHEAD POWER LINES. UNDERGROUND POWER LINES, GAS MAINS, WATER LINES, SEWERS AND ALL OTHER BURIED FACILITIES THROUGHOUT THE WORK AREA. THE CONTRACTOR SHALL CALL PA ONE CALL PRIOR TO PERFORMING ANY WORK. ANY TEMPORARY RELOCATION NECESSARY TO COMPLETE THE WORK SHALL BE AT THE CONTRACTOR'S EXPENSE, EXCEPT WHERE NOTED. DAMAGE CAUSED BY THE CONTRACTOR TO ANY PUBLICLY OR PRIVATELY OWNED STRUCTURES SHALL BE REPAIRED, IN KIND, AT THE CONTRACTOR'S EXPENSE.
- 8. THE CONTRACTOR SHALL NOT, UNDER ANY CONDITIONS, OPERATE ANY HYDRANTS WITHOUT COORDINATION WITH THE OWNER OF THE WATER SUPPLY, PROVIDE 48 HOUR NOTICE TO WATER SUPPLY COMPANY. IT SHOULD BE NOTED THAT ALL CONNECTIONS TO HYDRANTS, OPERATION OF VALVES, CURB BOXES, ETC. WILL BE CONDUCTED BY THE WATER SUPPLY COMPANIES PERSONNEL AND NOT BY THE CONTRACTOR.
- 9. IF A CONFLICT IS FOUND BETWEEN DIFFERENT PORTIONS OF THE CONTRACT DOCUMENTS THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY. CONTINUED CONSTRUCTION OF THE AREA IN CONFLICT SHALL BE AT THE CONTRACTOR'S OWN RISK UNTIL THE CONFLICT IS RESOLVED BY THE OWNER.
- 10. NECESSARY TEMPORARY STRUCTURES TO ACCESS OR ADJUST MANHOLE STRUCTURES, FRAMES AND COVERS AT ALL WORK LOCATIONS IS INCIDENTAL TO THIS PROJECT AND NO ADDITIONAL PAYMENT WILL BE MADE.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE NEED FOR TEMPORARY COFFERDAMS OR OTHER WATER CONTROL STRUCTURES.
- 12. REMOVAL AND REPLACEMENT OF SANITARY MANHOLE CONES, FRAMES, AND COVERS MAY BE NECESSARY TO FACILITATE THE WORK. ALL ITEMS OF WORK AND COST INCURRED TO REHABILITATE THE SANITARY SEWERS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. MANHOLE FRAME SIZES VARY AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 13. THE CONTRACTOR SHALL HAVE THE COMPLETE AND SOLE RESPONSIBILITY FOR THE JOB SITE INCLUDING THE SAFETY OF PERSONS AND PROPERTY. JOB SITE INSPECTIONS BY THE OWNER ARE TO DETERMINE COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, NOT TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES. BARRIERS TEMPORARY FENCING OR OTHER MEASURES MUST BE PLACED TO ELIMINATE ACCESS TO THE CONSTRUCTION SITE BY THE PUBLIC. NO ADDITIONAL PAYMENT WILL BE MADE FOR THESE MEASURES.
- 14. APPROXIMATE LOCATION OF EXISTING INTERCEPTORS ARE SHOWN. CONTINUOUS WATER AND SEWER SERVICE SHALL BE MAINTAINED THROUGHOUT THE PROJECT. CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CHUTES AND PLUGS OF EXISTING PIPES AS NECESSARY TO MAINTAIN SERVICE. ALL BYPASS PUMPING OF SEWERS SHALL BE INCLUDED IN THE UNIT BID PRICE PER LINEAL FEET OF REPAIR OR REPLACEMENT AND SHALL BE CONSIDERED INCIDENTAL TO THE COST. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE
- 15. WHEN TIE-INS AND RECONNECTIONS TO THE SEWER SYSTEM ARE MADE, A CONTINUOUS WORK OPERATION MUST BE MAINTAINED UNTIL ALL SERVICE IS RESTORED.
- 16. ALL WORK LOCATIONS SHALL BE LEFT IN A CONDITION AT THE CONCLUSION OF THE WORK SIMILAR TO THAT BEFORE THE COMMENCEMENT OF WORK, EXCEPT FOR THE WORK PERFORMED UNDER THIS CONTRACT. DAMAGE DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR TO THE SATISFACTION OF THE OWNER. REPAIRS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- 17. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ACCORDING TO THE MAINTENANCE AND PROTECTION OF TRAFFIC PLAN PERMIT OBTAINED BY THE CONTRACTOR AND THE STATE HIGHWAY OCCUPANCY PERMIT IN THE CONTRACT SPECIFICATIONS. THE WORK IS NOT CONSIDERED HEAVY HIGHWAY CONSTRUCTION. BUT THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING ANY NECESSARY APPLICATIONS AND SEEKING PERMITS FROM LOCAL OR STATE AUTHORITIES RELEVANT AND REQIRED FOR PROJECT ACCESS AND CONSTRUCTION. ALL WORK IN AND AROUND NAVIGABLE WATERWAYS SHALL BE IN ACCORDANCE WITH ALL FEDERAL AND STATE PERMITS OBTAINED FOR THIS PROJECT.
- 18. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH PROPERTY OWNERS IN ADVANCE OF THE WORK, TO INCLUDE DOCUMENTATION AT EXISTING SITE CONDITIONS INCLUDING SANITARY SEWER LATERAL CONNECTION LOCATIONS. THE RESTORATION OF PRIVATE AND PUBLIC PROPERTY IS THE RESPONSIBILITY OF THE CONTRACTOR. AND IS INCIDENTAL TO THE WORK. THE CONTRACTOR SHALL RECORD A PRE-WORK VIDEO OF EXISTING CONDITONS PRIOR TO COMMENCEMENT OF WORK IN AREAS TO BE IMPACTED BY THE PROJECT. ALL AREAS, INCLUDING PRIVATE PROPERTY, SHALL BE RESTORED TO THE CONDITION OF THE PRE-WORK VIDEO
- 19. THE CONTRACTOR SHALL CONFIRM WITH THE ENGINEER THAT ALL OR ANY OF THE OWNERS OF IMPACTED PROPERTIES ARE NOTIFIED IN WRITING AT LEAST TWO (2) WEEKS PRIOR TO STARTING WORK SHOWN ON THESE PLANS.
- 20. VEHICLE ACCESS MAY NOT BE AVAILABLE TO ALL MANHOLES AND SEWER SEGMENTS IDENTIFIED IN THIS CONTRACT, AND FOOT ACCESS MAY BE REQUIRED TO COMPLETE THE WORK IN THESE AREAS.
- 21. THE SOURCE OF THE BASE PLAN INFORMATION IS THE ARCGIS MAPPING DATA PROVIDED BY ALCOSAN AND SANITARY SEWER AS-BUILT INFORMATION. THE COORDINATES SHOWN ON THE DRAWING ARE BASED ON NAD 1983/1981. ALL VERTICAL CONTROLS ARE BASED ON NAVD 1988.
- 22. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY NEEDED STAGING/STORING AREAS.
- 23. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH LOCAL AND STATE SOIL EROSION AND SEDIMENTATION CONTROL REQUIREMENTS, THE MOST STINGENT WILL APPLY.
- 24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING SILT AND/OR DEBRIS OUT OF THE STORM DRAINAGE SYSTEM, STREAMS, RIVERS, ETC. FOR THE DURATION OF THE CONTRACT

- 25. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND PARKING AREAS OF DUST AND TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADS ARE MAINTAINED IN A MUD AND DUST FREE CONDITION AT ALL TIMES.
- 26. REMOVE ON A DAILY BASIS (TO MINIMIZE TRAFFIC INTERUPTIONS) ALL EXCESS CONSTRUCTION DEBRIS AND MATERIAL FROM THE WORK SITE.
- 27. WHENEVER POSSIBLE THE CONTRACTOR SHALL COMPLETE THE REHABILITATION WORK UNDER DRY WEATHER CONDITIONS.
- 28. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE THEIR WORK SUFFICIENTLY IN ADVANCE TO ELIMINATE DELAYS IN COMPLETING THE REQUIREMENTS OF THEIR WORK AS A RESULT OF ITEMS SUCH AS, BUT NOT LIMITED TO PERMITTING ACCESS COORDINATION AND IMPACTED PROPERTY OWNER COORDINATION.
- 29. CLEARING AND GRUBBING AS REQUIRED TO ACCESS SOME MANHOLES SHALL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOT REMOVE, DAMAGE OR DISTURB ANY TREES GREATER THAN 12". CLEARING AND GRUBBING SHALL BE PER SPECIFICATIONS.
- 30. SOIL AND EROSION CONTROL MEASURES SHALL, AT A MINIMUM, COMPLY WITH THE FOLLWING REGULATIONS AND STANDARDS:
 - COMMONWEALTH OF PENNSYLVANIA, DEPARTMENT OF ENVIRONMENTAL PROTECTION; EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL. LATEST EDITION (MARCH 2012) WITH ALL SUPPLEMENTS AND AMENDMENTS
 - COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION, PUBLICATION 408 WITH LATEST EDITION (2020) EFFECTIVE APRIL 10, 2020 WITH ALL SUPPLEMENTS AND
- 31. THE CONTRACTOR SHALL FOLLOW AND IMPLEMENT ALL COVID-19 PRECAUTIONS IN AFFECT BY THE CITY, COUNTY AND STATE AT THE TIME OF PERFORMING THE WORK INCLUDED IN THIS CONTRACT.
- 32. THE CONTRACTOR SHALL PROTECT AND SECURE OPEN EXCAVATIONS FROM THE GENERAL PUBLIC.

LEGEND ABBREVIATIONS: EXISTING INVERT ELEVATION ALCOSAN-OWNED SANITARY MANHOLE INV. MANHOLE MUNICIPAL-OWNED SANITARY MANHOLE LH LAMP HOLE LOD LIMITS OF DISTURBANCE SANL SANITARY FIRE HYDRANT OVERFLOW REHAB MIN REHABILITATION MINIMUM LIGHT POLE WATER VALVE FIRE HYDRANT MINIMUM **CATCH BASIN** UNKNOWN ALCOSAN-OWNED SEWER LINE SANITARY SEWER MANHOLE CURED IN PLACE PIPE MUNICIPAL-OWNED SEWER LINE CNL CAN NOT LOCATE DEAD END STORM/WATER PIPE VITRIFIED CLAY PIPE **CAST IRON PIPE** REINFORCED CONCRETE PIPE GAS VALVE TOP ELEVATION GV GAS VALVE **GAS LINE** WV WATER VALVE **POWER POLE** LIGHT/ELECTRIC POST FLOOD PLAIN MAX. MAXIMUM OVERHEAD WIRES BRICK W/O WITHOUT TMH TELEPHONE MANHOLE **PROPERTY LINE** DS **DOWNSTREAM** UPSTREAM US **COMMUNICATIONS LINE EXCAVATION LIMIT**

Designed by:			REVISION	
	REV No.	DATE	DESCRIPTION	APPV
K. ALSPACH	1	05/30/25	60% DESIGN REVIEW	RO
Drawn by:	2	06/20/25	90% DESIGN REVIEW	RO
C. CAVANAGH	<u>/3\</u>	07/25/25	100% DESIGN	RO
Checked by:				
R. O'CONNELL				







ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810

ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MANHOLE IMPROVEMENT CONTRACT

FLOW DIRECTION

CONTRACT No. 1816 Date: GENERAL NOTES, ABBREVIATIONS Sheet: and LEGEND

Contract:

CAD File Name:

1816-G-002.DWG

07 / 25 / 2025

2 OF 17

Manhole No.	Existing Node ID	POC	Latitude/Longitude	Rim El. (FT)	Depth (FT)	MH Size (FT)	Pipes (IN/OUT)	Pipe Owners	Pipe Size	Pipe Materials	Invert Elevations (FT)
1	JT0167S01	A-69	79° 56' 9.46" W 40° 29' 36.74" N	734.54	19.6	5	MH0167M01.JT0167S001.1 (IN) MH0167S05.JT0167S001.1 (IN) JT0167S001.MH0167S02.1 (OUT)	ALCOSAN Sharpsburg Borough ALCOSAN	36" W x 72" H 10" dia. 54" W x 74" H	Brick (egg-shaped) VCP (circular) Brick (egg-shaped)	721.87
2	JT0130L03	M-45	79° 54' 16.77" W 40° 24' 32.01" N	768.11	6.79	4	MH0130L04.JT0130L03.1 (IN) MH0130M06.JT0130L03.1 (IN) JT0130L03.MH0130L02.1 (OUT)	ALCOSAN Munhall Sanitary Sewer Municipal Authority ALCOSAN	42" W x 54" H 15" dia. 42" W x 54" H	Brick (egg-shaped) UNK (circular) Brick (egg-shaped)	762.14
3	JT0130L10	M-45	79° 54' 23.67" W 40° 24' 32.04" N	763.95	7.17	4	MH0130L11.JT0130L10.1 (IN) MH0130L26.JT0130L10.1 (IN) JT0130L10.MH0130L09.1 (OUT)	ALCOSAN Homestead Borough ALCOSAN	24" dia. 18" dia. 24" dia.	VCP (circular) VCP (circular) VCP (circular)	756.78 756.78 756.78

NEW MANHOLES 1, 2 and 3 SCHEDULE

(*) Note: Listed sizes of pipe may not match field conditions due to pipe deformation. Size requires verification in field.

Manhole No.	Asset ID	POC	Latitude/Longitude	Location		
4	4 MH0122C01		40° 29' 24.94" N	Riverfront Park, top of slope approximately 30' from RR		
4	IVINU 122CU I	A-75	79° 54' 27.18" W	Riverifont Park, top of slope approximately 50 from		
_	MUAAOZAOE	T-29A-10	40° 32' 40.41" N	Drivougy/Parking area near Jadan's Cataring		
5	MH1107A05	1-29A-10	79° 57' 45.49" W	Driveway/Parking area near Jaden's Catering		
G	MILIOE 24 100	۸ 60	40° 25' 59.81" N	East side of Burchfield Road, across from		
6	MH0521J08	A-68	79° 43' 50.59" W	580 Burchfield Rd (Aiello's Pizza North)		
7	C 20 04	S-39-04	40° 25' 37.56" N	Darking lot of 021 Cour Mill Dun Dha		
'	S-39-04		80° 01' 18.48" W	Parking lot of 921 Saw Mill Run Blvd		

MANHOLES 4, 5, 6 and 7 REHABILITATION SCHEDULE

Number	Asset ID	New Casting and Lid	Latitude/Longitude	
1	MH0976P05	28" Revolution Assembly	40° 26' 41.24" N	
		,	79° 44' 41.63" W	
2	MH0976P02	28" Revolution Assembly	40° 26' 35.3" N	
			79° 44' 39.12" W	
3	MH0977F02	28" Revolution Assembly	40° 26' 25.87" N 79° 44' 35.55" W	
			40° 26' 7.12" N	
4	MH1243N04	28" Revolution Assembly	79° 42' 45.68" W	
			40° 26' 6.28" N	
5	MH1243N03	28" Revolution Assembly	79° 42' 46.25" W	
			40° 25' 49.6" N	
6	MH1107H05	28" Revolution Assembly	79° 42' 59.93" W	
_	NAUL4 4 0 7 0 0 0	0011 D 1 1/2 A 1 1	40° 25' 44.98" N	
7	MH1107G02	28" Revolution Assembly	79° 43' 16.16" W	
0	NALI4407004	2011 Develotion Assessed	40° 25' 43.13" N	
8	MH1107G01	28" Revolution Assembly	79° 43' 17.13" W	
0	M114407D02	20!! Develution Assembly	40° 25' 33.08" N	
9	MH1107R03	28" Revolution Assembly	79° 43' 27.37" W	
10	MH1109B01	28" Povolution Assembly	40° 24' 42.23" N	
10	MITTIOSECT	28" Revolution Assembly	79° 43' 29.53" W	
11	MH1109G05	28" Revolution Assembly	40° 24' 39.78" N	
- ' '		20 Revolution 7 Gaernary	79° 43' 27.77" W	
12	MH1109K01	28" Revolution Assembly	40° 24' 31.57" N	
		20 1 10 10 10 10 11 10 10 11 10 11	79° 43' 43.3" W	
13	MH1110A02	28" Revolution Assembly	40° 24' 12.03" N	
			79° 43' 54.96" W	
14	MH0981H01	28" Revolution Assembly	40° 23' 59.24" N	
		,	79° 44' 2.19" W	
15	MH0981L01	28" Revolution Assembly	40° 23' 52.63" N	
		•	79° 44' 18.26" W	
16	MH0981R05	28" Revolution Assembly	40° 23' 47.67" N	
			79° 44' 17.8" W 40° 23' 45.53" N	
17	MH0981R04	28" Revolution Assembly	79° 44' 18.89" W	
			40° 23' 48.45" N	
18	MH0981R01	28" Revolution Assembly	79° 44' 29.02" W	
			40° 23' 48.06" N	
19	MH0981P04	28" Revolution Assembly	79° 44' 33.8" W	
_			40° 23' 47.36" N	
20	MH0981P03	28" Revolution Assembly	79° 44' 36.33" W	
			40° 23' 35.34" N	
21	MH0982A02	28" Revolution Assembly	79° 44' 46.62" W	
			40° 23' 27.24" N	
22	MH0861H04	28" Revolution Assembly	79° 45' 1.54" W	

T-29A-10 CASTING & LID REPLACEMENTS MANHOLE SCHEDULE

(SEE SHEET 8 FOR LOCATION MAP)

(SEE SHEET 13 FOR REVOLUTION ASSEMBLY LID DETAIL)

Designed by:		REVISION					
	REV No.	DATE	DESCRIPTION	APPV			
K. ALSPACH	\triangle	05/30/25	60% DESIGN REVIEW	RO			
Drawn by:	2	06/20/25	90% DESIGN REVIEW	RO			
C. CAVANAGH	<u>/3\</u>	07/25/25	100% DESIGN	RO			
Checked by:							
R. O'CONNELL							

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EXECUTIVE DIRECTOR, ALCOSA

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ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MANHOLE IMPROVEMENT CONTRACT

MANHOLE IMPROVEMENT CONTRACT

CONTRACT No. 1816

MANHOLE SCHEDULES

CAD File Name:

1816-G-003.DWG

Date:

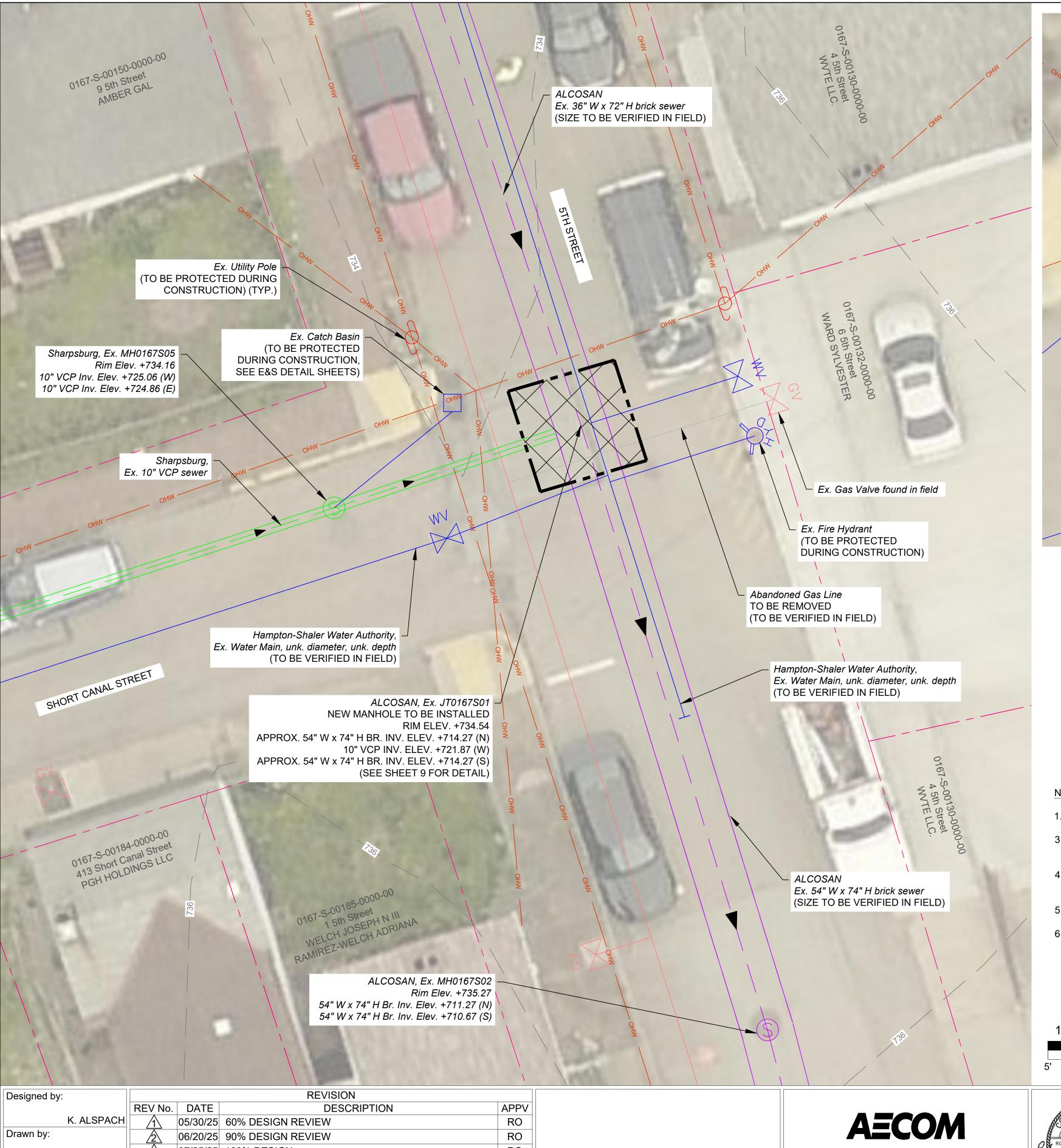
07 / 25 / 2025

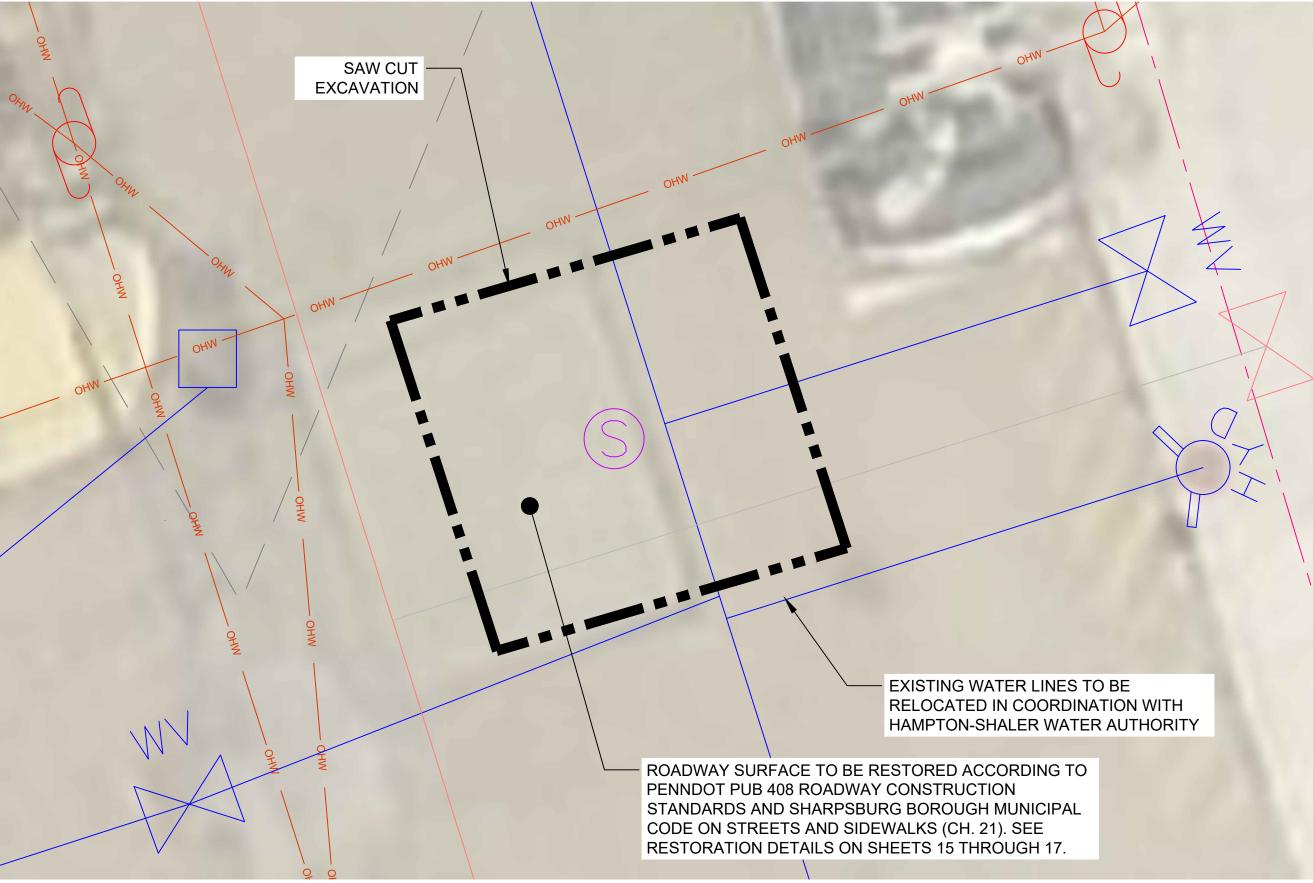
Sheet:

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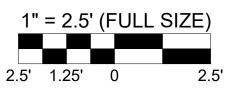
3 OF 17

Contract:





SITE RESTORATION



NOTES:

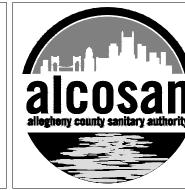
- HORIZONTAL DATUM: PA STATE PLANE COORDINATES (SOUTH ZONE), NAD83 (2011).
- 3. CONTOUR DATA SOURCE: PA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY, "PAMAP PROGRAM TOPOGRAPHIC CONTOURS (2 FT INTERVAL) OF PENNSYLVANIA", ACCESSED WITH PENNSYLVANIA SPATIAL DATA ACCESS (PASDA), 6/15/2007
- 4. IMAGE DATA SOURCE: ALLEGHENY COUNTY DIVISION OF COMPUTER SERVICES GEOGRAPHIC INFORMATION SYSTEMS GROUP, "ALLEGHENY COUNTY IMAGERY 2017 (3IN)", ACCESSED WITH PENNSYLVANIA SPATIAL DATA ACCESS (PASDA), 2017
- 5. PA ONECALL DESIGN TICKETS SUBMITTED FOR FOR MANHOLE 1 (JT0167S01): #20251322556 & #20251061930
- CONTRACTORS ARE REQUIRED TO NOTIFY THE FACILITY OWNERS NOT LESS THAN THREE (3) NOR MORE THAN TEN (10) WORKING DAYS PRIOR TO EXCAVATION OR DEMOLITION WORK WHEN USING POWERED EQUIPMENT ON PUBLIC OR PRIVATE PROPERTY ANYWHERE IN THE COMMONWEALTH. CONTRACTORS ARE RESPONSIBLE FOR PRESERVING THE FACILITY OWNER MARKINGS, TO EXERCISE DUE CARE AND EMPLOY PRUDENT TECHNIQUES WITHIN THE TOLERANCE ZONE. CONTRACTORS SHOULD KEEP EACH OPERATOR AT THE SITE INFORMED AND EVALUATE THE PREMISES IF NECESSARY. NOTIFICATION SHOULD BE MADE THROUGH THE PENNSYLVANIA ONE-CALL SYSTEM (1-800-242-1776).



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	REV No.	DATE	DESCRIPTION	APPV
K. ALSPACH	1	05/30/25	60% DESIGN REVIEW	RO
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C. CAVANAGH	<u>/</u> 3\	07/25/25	100% DESIGN	RO
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R. O'CONNELL				

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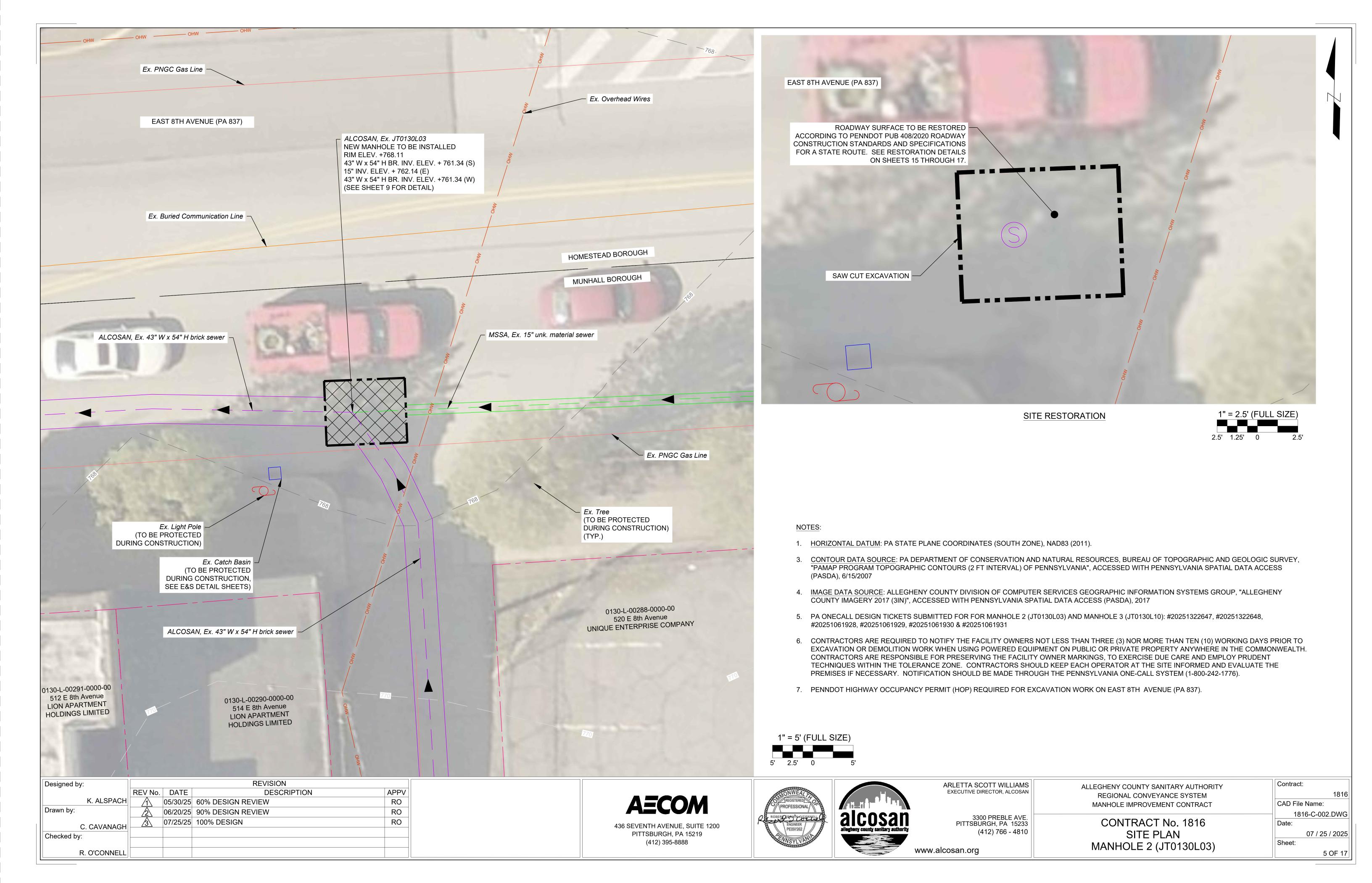
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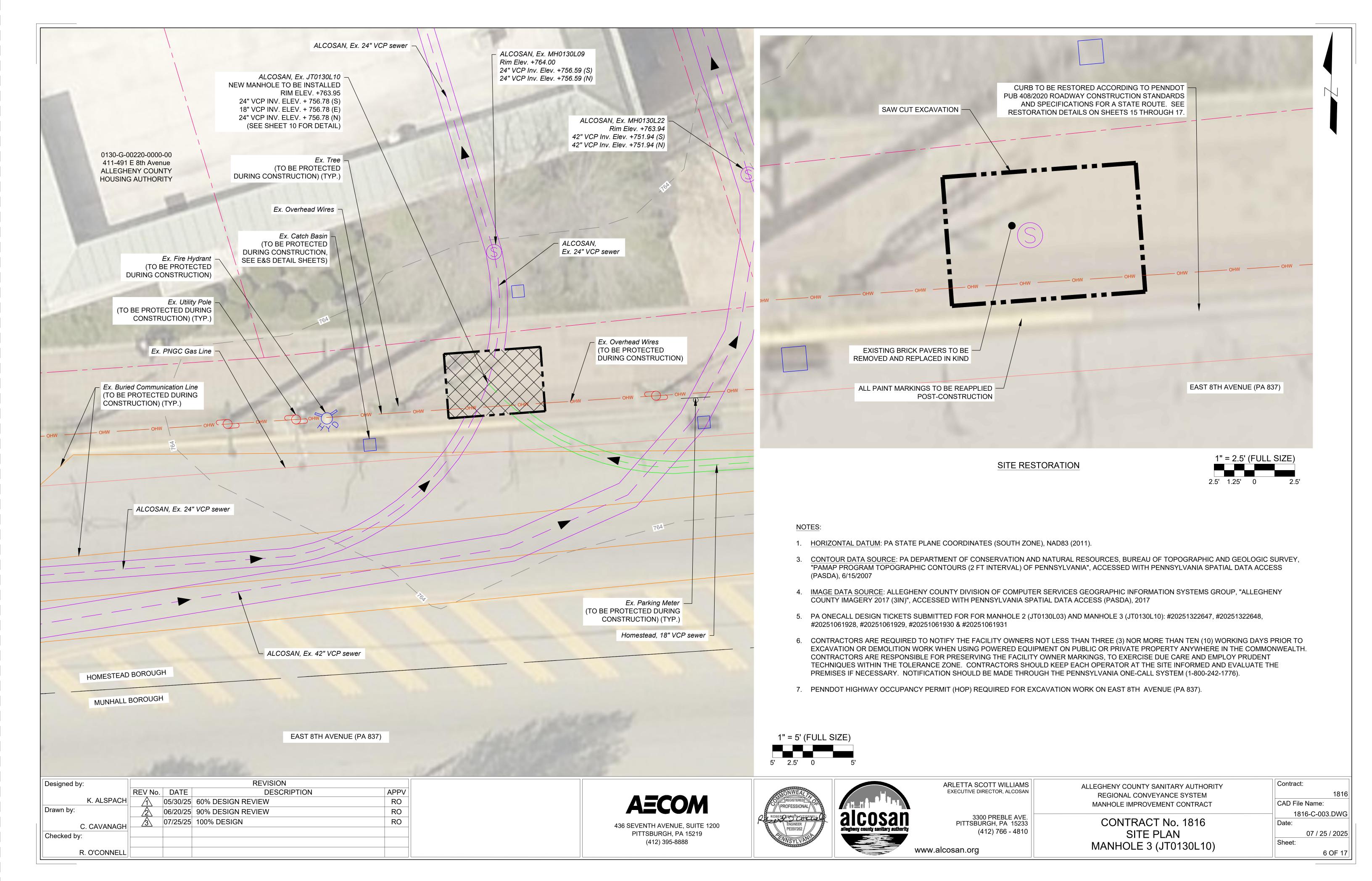
CONTRACT No. 1816
SITE PLAN
MANHOLE 1 (JT0167S01)

ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM

MANHOLE IMPROVEMENT CONTRACT

Contract: CAD File Name: 1816-C-001.DWG 07 / 25 / 2025 Sheet: 4 OF 17





EXISTING CASTING ELEVATION ON ALL (SEE SHEET 16 FOR DETAIL) SIDES OF THE EXISTING BRICK CHIMNEY. REMOVE EXISTING BRICK CHIMNEY. MANHOLE CASTING AND LID

REMOVE EXISTING EARTH TO 5 FEET BELOW

INSTALL NEW 28" EJ ERGO ASSEMBLY LID,

NOTE:

MANHOLE STRUCTURE.

PRODUCT NUMBER 00189061L01

REHABILITATION OF MANHOLE 4 (ASSET ID MH0122C01)

COMPONENTS MUST BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

1. INSTALL A PRECAST EXTENSION ON THE EXISTING BRICK MANHOLE. DIMENSIONS OF THE PRECAST COMPONENTS SHALL BE DETERMINED IN THE FIELD BASED ON THE EXISTING

2. ONCE FIELD MEASUREMENTS ARE VERIFIED, SUBMITTALS FOR THE PRECAST MANHOLE

REMOVE A SECTION OF EXISTING GRAVEL DRIVEWAY. EXCAVATION LIMIT SHOULD BE, AT MINIMUM, 5' X 5' SQUARE SURROUNDING EXISTING MANHOLE COVER.



NOTE:

INSTALL NEW

SEE NOTE 2.

BITUMINOUS PATCH AROUND EXISTING MANHOLE COVER.

- 1. REFER TO PENNDOT PUB 408/2020 SPECIFICATIONS SECTION 606 "GRADE ADJUSTMENT OF EXISTING MISCELLANEOUS STRUCTURES" FOR VERTICAL ADJUSTMENTS OF 6 INCHES OR LESS.
- 2. SEE SHEET 15 FOR DETAILS ON DRIVEWAY CUTTING AND REPAIRING.

REHABILITATION OF MANHOLE 5 (ASSET ID MH1107A05)

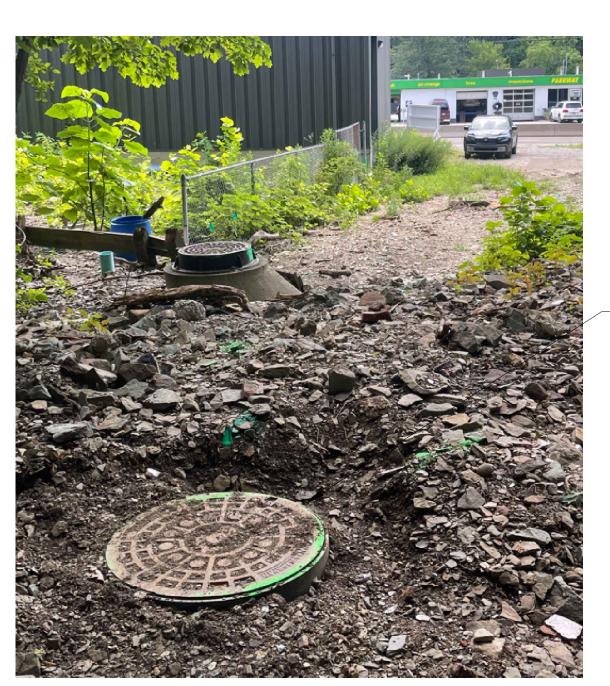


INSTALL NEW 28" EJ ERGO ASSEMBLY LID,

INSTALL NEW PRECAST EXTENSION AND MANHOLE

EXCAVATE TO THE LOCATION (APPROX. 5 FEET) WHERE THE EXISTING CORRUGATED PIPE MEETS CONCRETE MANHOLE WALL. REMOVE EXISTING CASTING AND CORRUGATED RISER SECTION.

REHABILITATION OF MANHOLE 6 (ASSET ID MH0521J08)



MANHOLE 7 CURRENT SURFACE CONDITIONS **SOUTH-FACING VIEW (JULY 2025)**

PROTECT AND UTILIZE EXISTING MANHOLE RIM AND LID

RAISE MANHOLE RIM (APPROX. 3 FEET) WITH ADDITIONAL CONCRETE RISER SECTION BENEATH EXISTING CONICAL RISER AND ABOVE EXISTING BRICK CHIMNEY. PROTECT AND UTILIZE EXISTING LID AND CONICAL SECTION.

EXCAVATE ROCK AND DEBRIS

(APPROX. 5 FEET)

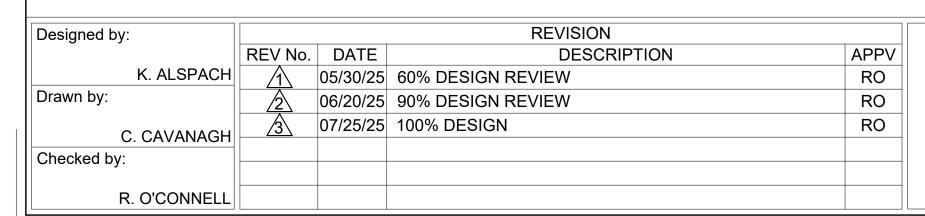


MANHOLE 7 EXISTING CONICAL RISER NORTH-FACING VIEW (MARCH 2013)

NOTE:

- 1. INSTALL A PRECAST EXTENSION ON THE EXISTING BRICK MANHOLE. DIMENSIONS OF THE PRECAST COMPONENTS SHALL BE DETERMINED IN THE FIELD BASED ON THE EXISTING MANHOLE STRUCTURE.
- 2. ONCE FIELD MEASUREMENTS ARE VERIFIED, SUBMITTALS FOR THE PRECAST MANHOLE COMPONENTS MUST BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

REHABILITATION OF MANHOLE 7 (ASSET ID S-39)



AECOM 436 SEVENTH AVENUE, SUITE 1200 PITTSBURGH, PA 15219 (412) 395-8888





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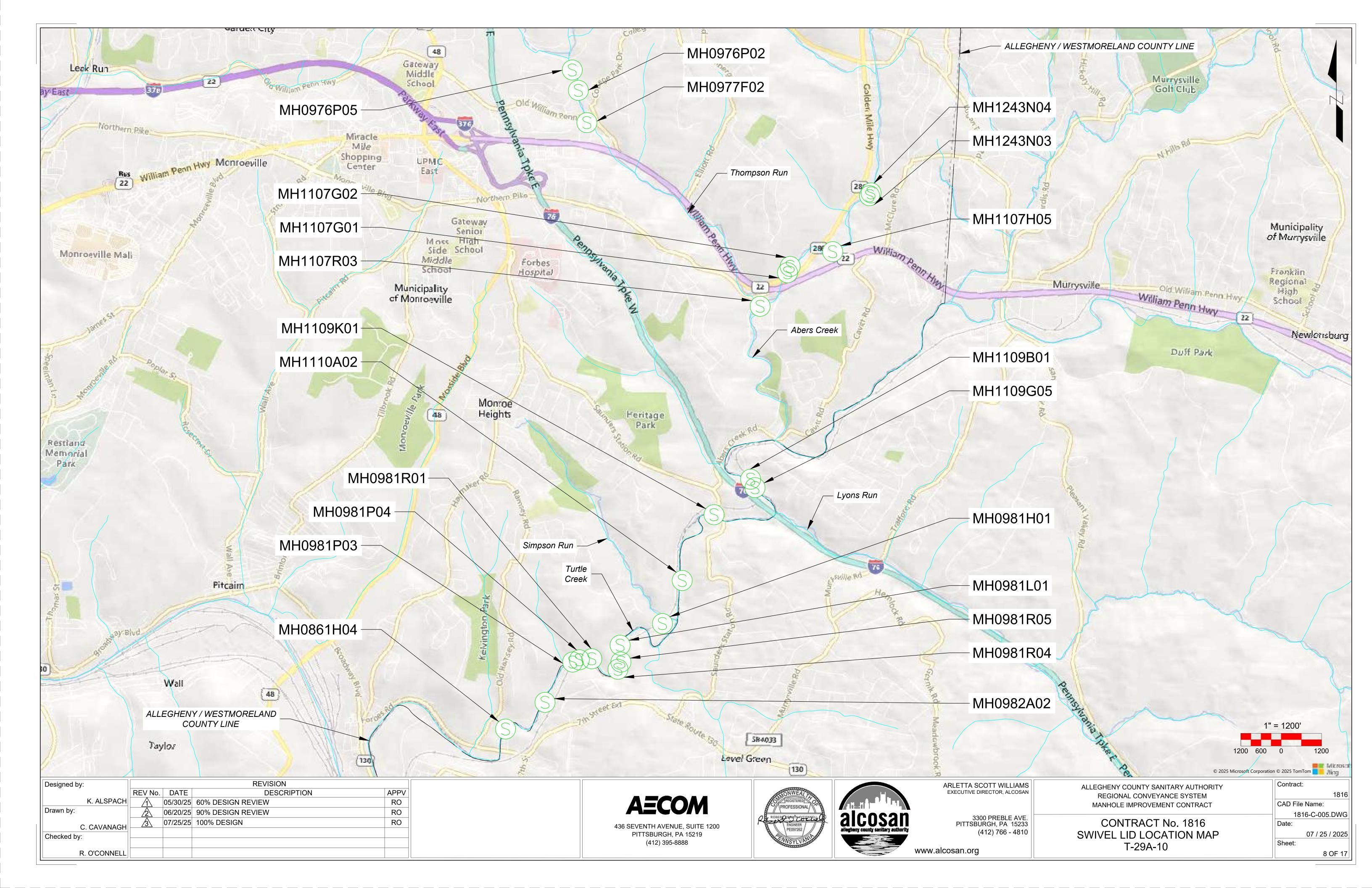
3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810

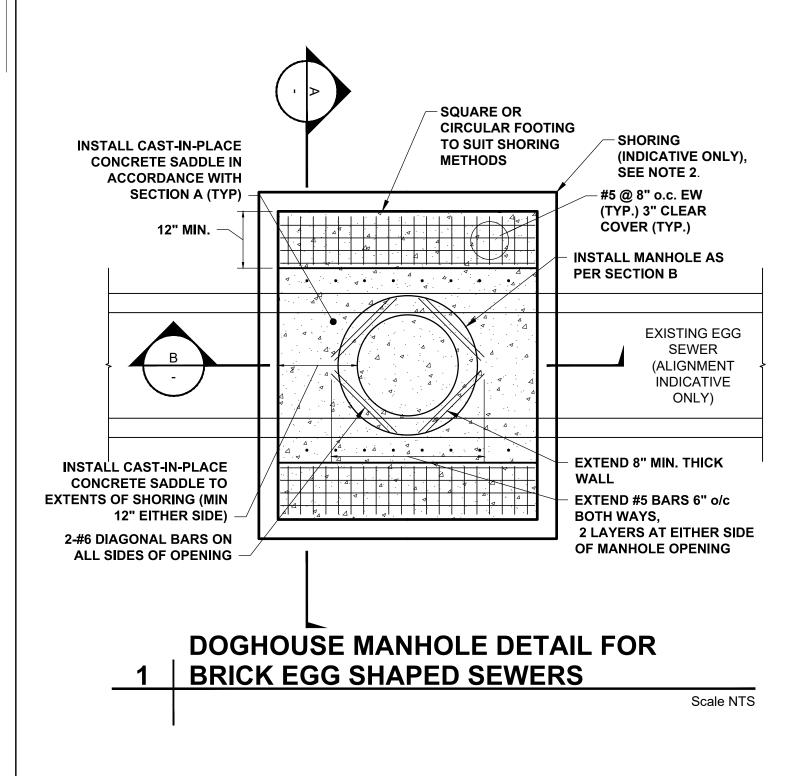
ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MANHOLE IMPROVEMENT CONTRACT

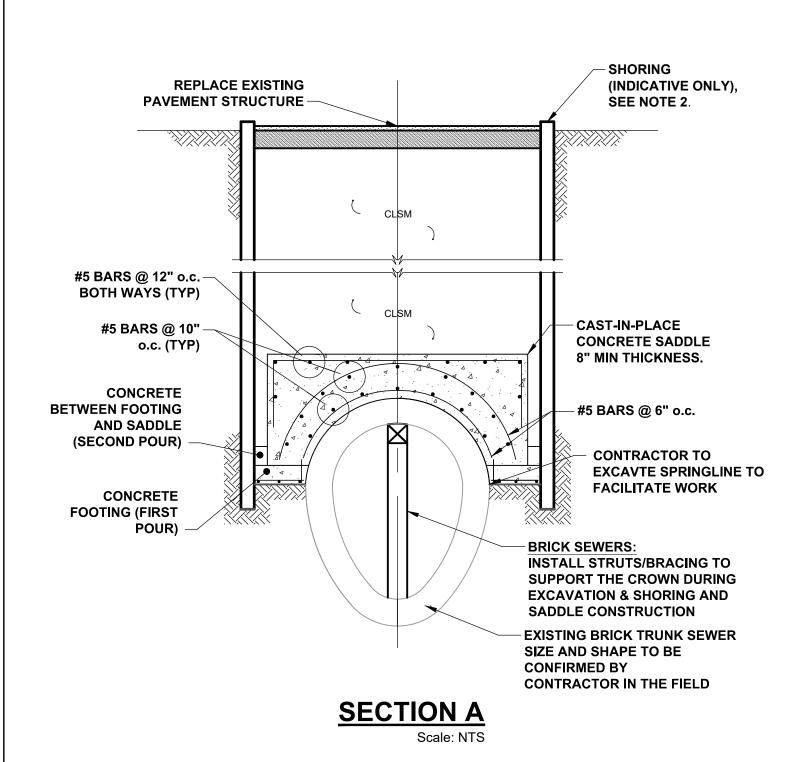
> CONTRACT No. 1816 REHABILITATION PLAN MANHOLES 4, 5, 6 and 7

Contract: CAD File Name: 1816-C-004.DWG 07 / 25 / 2025

7 OF 17

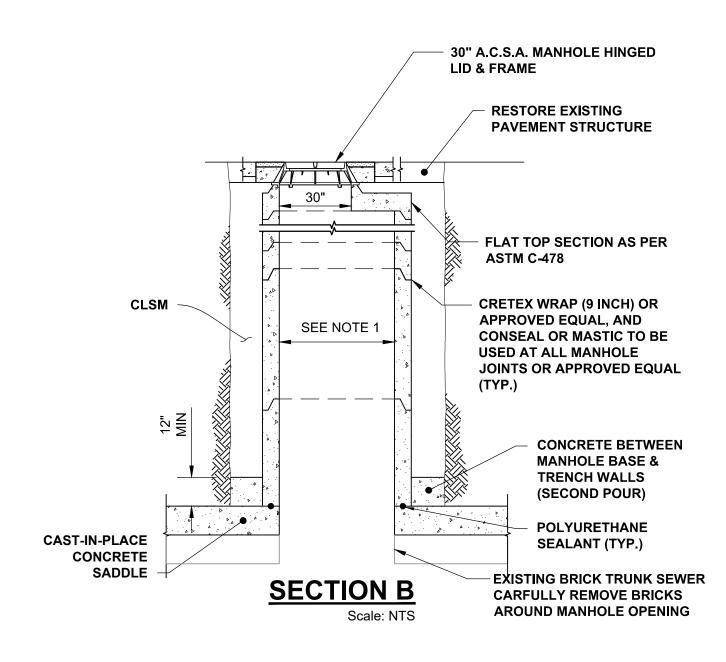






NOTES

- 1. INSTALL 4' DIAMETER MANHOLE ON 42" WIDTH SEWER AND 5' DIAMETER MANHOLE ON 54" WIDTH SEWER.
- 2. CONTRACTOR SHALL DESIGN AND PROVIDE TEMPORARY EXCAVATION SUPPORT AS REQUIRED. ANY TEMPORARY SUPPORTS SHALL PROVIDE REQUIRED CLEARANCES TO PERFORM WORK AND BE REMOVED AFTER COMPLETION OF WORK.
- 3. ALL CONSTRUCTION JOINTS TO BE WATER PROOFED WITH THE USE OF A HYDROPHILIC WATER STOP OR APPROVED EQUAL.
- 4. PROVIDE 2" CLEAR CONCRETE COVER FOR ALL REINFORCEMENT.



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	REV No.	DATE	DESCRIPTION	APPV	
K. ALSPACH	1	05/30/25	60% DESIGN REVIEW	RO	
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C. CAVANAGH	3	07/25/25	100% DESIGN	RO	
Checked by:					
R. O'CONNELL					







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EXECUTIVE DIRECTOR, ALCOSAN

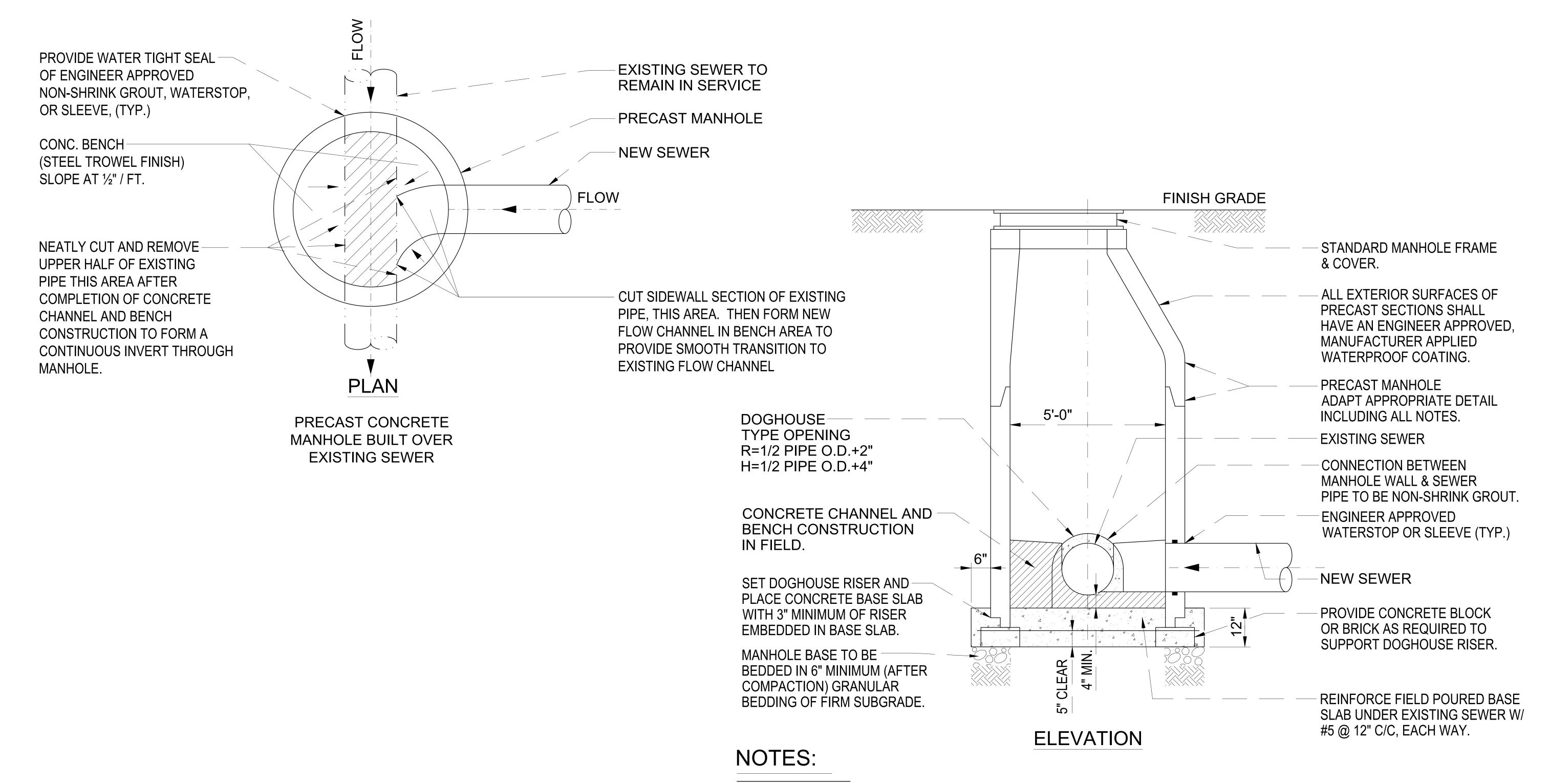
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MANHOLE IMPROVEMENT CONTRACT	
CONTRACT No. 1816	

ALLEGHENY COUNTY SANITARY AUTHORITY

1816 REGIONAL CONVEYANCE SYSTEM CAD File Name: 1816-C-006.DWG Date: 07 / 25 / 2025 DOGHOUSE MANHOLE DETAIL Sheet: EGG-SHAPED BRICK PIPE 9 OF 17

Contract:



- 1. FULL PIPE DEPTH CHANNEL THROUGH MANHOLE.
- 2. ALL CONCRETE SHALL BE MINIMUM 4,000 psi AIR-ENTRAINED CONCRETE.

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	REV No.	DATE	DESCRIPTION	APPV
K. ALSPACH	1	05/30/25	60% DESIGN REVIEW	RO
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C. CAVANAGH	3	07/25/25	100% DESIGN	RO
Checked by:				
R. O'CONNELL				







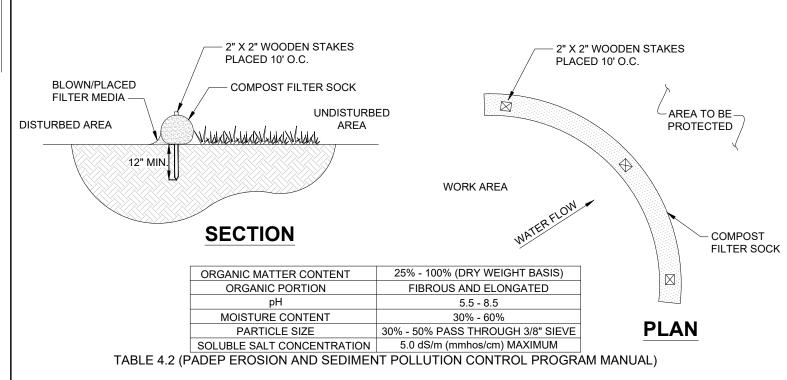
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ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MANHOLE IMPROVEMENT CONTRACT CONTRACT No. 1816

CAD File Name: 1816-C-007.DWG DOGHOUSE MANHOLE DETAIL 07 / 25 / 2025 Sheet: STANDARD 10 OF 17

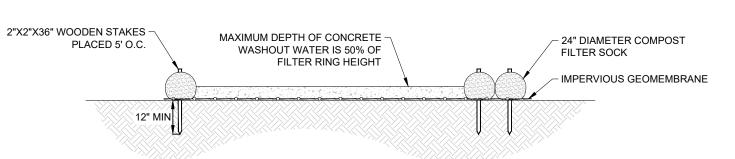
Contract:

1816

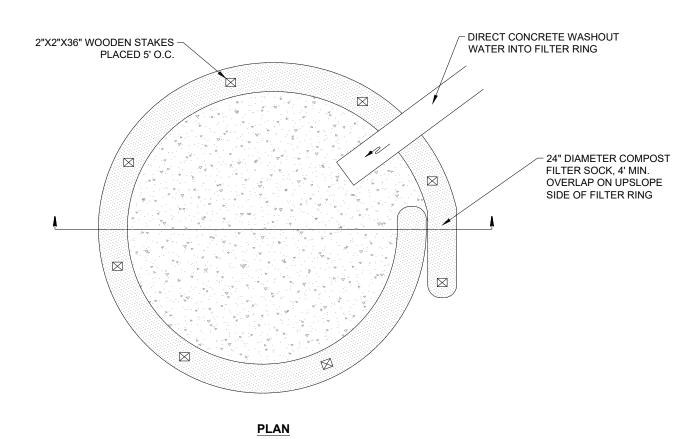


MATERIAL TYPE	3 mil HDPE	5 mil HDPE	5 mil HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY-DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP)	
MATERIAL CHARACTERISTICS	PHOTO- DEGRADABLE	PHOTO- DEGRADABLE	BIO- DEGRADABLE	PHOTO- DEGRADABLE	PHOTO- DEGRADABLE	
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"	
TENSILE STRENGTH		26 psi	26 psi	44 psi	202 psi	
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.	100% at 1000 hr.	
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS	
		TWO-PLY SYSTE	MS		•	
				HDPE BIAXIAL NET		
INNER CONT	AINMENT NETTING		CONTINUOUSLY WOUND			
INVERCOON	AINWENT NETTING		FUSION-WELDED JUNCTURES			
		3/4" x	3/4" MAX. APERTUR	E SIZE		
			TE POLYPROPYLEN			
OUTER FII	(WOVEN LAYER AND NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH)					
3/16" MAX. APERTURE SIZE						
				ING 6 MONTHS OR	LESS.	

TABLE 4.1 (PADEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL)



SECTION



- 1. CONTRACTOR SHALL USE THE MESH MATERIAL SHOWN IN TABLE 4.1 HEREON. ALTERNATIVE MESH MATERIAL SHALL BE APPROVED BY THE APPROPRIATE COUNTY CONSERVATION DISTRICT.
- ALL MATERIAL TO MEET MANUFACTURER SPECIFICATIONS.
- 3. COMPOST FILTER SOCK FILL TO MEET APPLICATION REQUIREMENTS.
- 4. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY CONSTRUCTION CONTRACTOR.

SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

- 5. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT
- 6. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

SPREAD ADJACENT TO OR IN THE WETLAND.

- 7. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
- 8. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION WITH ADDITIONAL SOCK OR ROCK FILTER.
- 9. BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE
- 10. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.
- 11. COMPOST FILTER SOCKS ADJACENT TO WETLANDS SHALL BE REMOVED. THE MULCH FROM THE COMPOST FILTER SOCK SHALL NOT BE
- 12. THE CONTRACTOR SHALL PROVIDE CERTIFICATION THAT COMPOST FILTER SOCK SPECIFICATIONS MEET THE PADEP STANDARDS PRIOR

FILTER BAG

PLAN VIEW

WELL VEGETATED, GRASSY AREA

COMPOST FILTER SOCK

DISCHARGE HOSE

INTAKE HOSE

DISCHARGE HOSE

PUMP

INTAKE HOSE -

FILTER BAG

ELEVATION VIEW

60 lb/in

205 lb

110 lb

80 SIEVE

TEST METHOD MINIMUM STANDARD

WELL VEGETATED, GRASSY AREA

ASTM D-4632

ASTM D-4883

ASTM D-3786

ASTM D-4355

ASTM D-4751

HEAVY DUTY LIFTING STRAPS

(RECOMMENDED)

PROPERTY

GRAB TENSILE

PUNCTURE

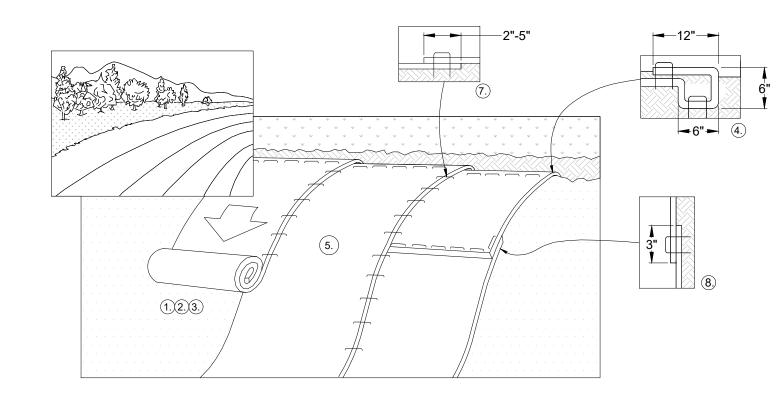
MULLEN BURST

UV RESISTANCE

AOS % RETAINED

(SEE NOTE 5)

13. CINDER BLOCKS MAY BE USED INSTEAD OF STAKES ON ASPHALT SURFACES. CINDER BLOCKS SHALL BE INSTALLED IMMEDIATELY



- PREPARE SUBGRADE BY PLACING MINIMUM OF 4 INCHES OF TOPSOIL
- 2. PLACE EROSION CONTROL BLANKET ON SLOPES AT OR STEEPER THAN 3H:1V.
- PREPARE SOIL BEFORE INSTALLING BLANKET, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET. SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
- 4. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6 DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- 5. ROLL THE BLANKET (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKET WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM^(Im), STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS
- 6. BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
- 7. THE EDGES OF PARALLEL BLANKET MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH(tm) ON THE
- 8. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
- 9. PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS TOP OF SLOPE.
- 10. MAINTENANCE: BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

SPACING AND CONSTRUCTION.

IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKET. ** STAPLE PATTERNS AND APPLICATIONS VARY BETWEEN MANUFACTURERS AND BLANKET TYPES. THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL CONSULT SPECIFIC MANUFACTURER INSTALLATION PROCEDURES FOR STAPLE

RECOMMENDED STAPLE PATTERNS					
SLOPE	STAPLE PATTERN				
4:1	Α				
3:1	В				
2:1	С				
1:1 & STEEPER	D				

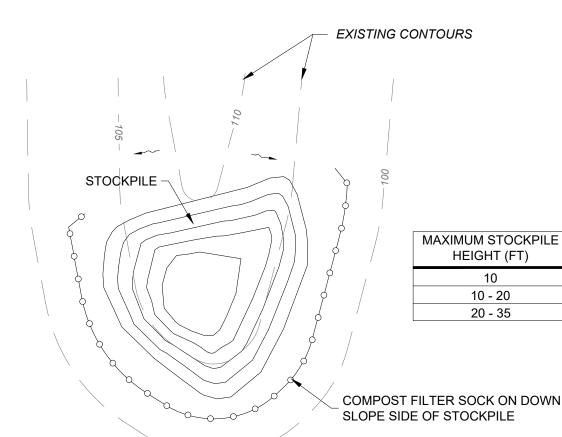
INSTALLATION OF EROSION CONTROL BLANKET FOR SLOPE STABILIZATION

- 1. LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS, THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
- 2. HIGH VOLUME FILTER BAGS SHALL NOT BE USED UNLESS APPROVED BY DESIGN ENGINEER.
- A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
- BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%. CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS
- 5. COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.
- 6. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
- 7. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP
- 8. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE
- 9. THE MAXIMUM PUMPING RATE FOR ANY BAG IN USE OR PROPOSED FOR USE ON A SITE SHALL BE AVAILABLE AT THE SITE AT ALL TIMES DURING PUMPING OPERATIONS.

PUMPED WATER FILTER BAG

N.T.S.

- CLAMPS



901		
	MAXIMUM STOCKPILE HEIGHT (FT)	COMPOST FILTER SOCK DIAMETER
	10	12
) / / / / \$ /	10 - 20	18
	20 - 35	32

- 1. MAXIMUM STOCKPILE HEIGHT IS 35 FEET.
- 2. STOCKPILE SLOPES MUST BE NO STEEPER THAN 2H:1V.
- 3. STOCKPILE LOCATIONS SHOWN ON THE PLANS ARE ILLUSTRATIVE AND MAY VARY IN LOCATION AS CONSTRUCTION PROCEEDS.
- 4. STOCKPILE IS TO BE STABILIZED IN ACCORDANCE WITH TEMPORARY SEEDING SPECIFICATIONS AND MULCH IS TO BE MAINTAINED UNTIL THE STOCKPILE IS STABILIZED.
- 5. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT.

STOCKPILE

N.T.S.

CONTRACT No. 1816	
MANHOLE IMPROVEMENT CONTRACT	
REGIONAL CONVEYANCE SYSTEM	
ALLEGHENY COUNTY SANITARY AUTHORIT	Υ

CONTRACT No. 1816 **E&S CONTROL STANDARD DETAILS** 1 OF 2

CAD File Name: **TRACT** 1816-C-008.DWG Date: 07 / 25 / 2025 Sheet:

NOTES:

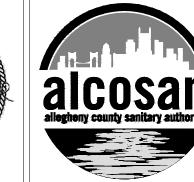
- 1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
- 18" DIAMETER FILTER SOCKS MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT
- 3. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
- 4. ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACE IMMEDIATELY.
- 5. ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 50% CAPACITY.
- 6. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
- 7. ALL CONCRETE WASHOUT FACILITIES SHALL BE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND LOCATED AT LEAST 100 FEET AWAY FROM WETLANDS AND STREAMS.

COMPOST SOCK WASHOUT

			IV.1.3.	
Designed by:			REVISION	
	REV No.	DATE	DESCRIPTION	APPV
K. ALSPACH	\triangle	05/30/25	60% DESIGN REVIEW	RO
Drawn by:	2	06/20/25	90% DESIGN REVIEW	RO
C. CAVANAGH	3	07/25/25	100% DESIGN	RO
Checked by:				
R. O'CONNELL				

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3300 PREBLE AVE. PITTSBURGH, PA 15233

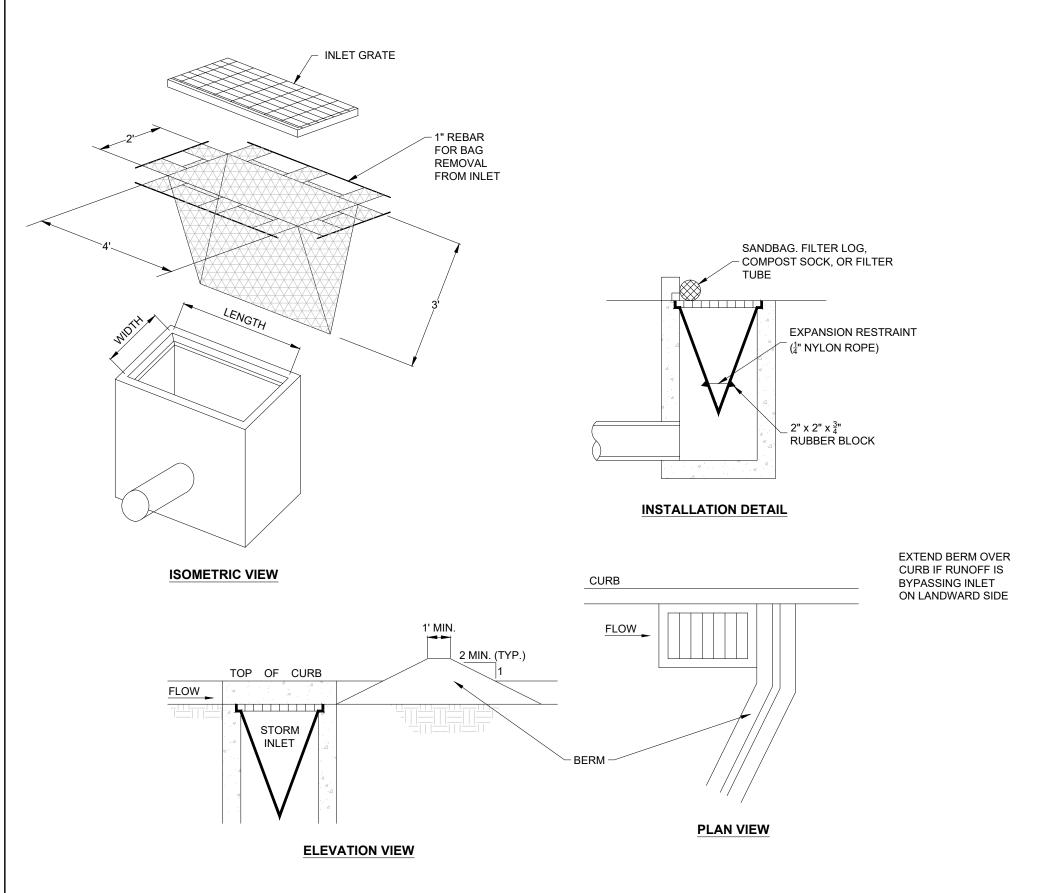
ARLETTA SCOTT WILLIAMS

EXECUTIVE DIRECTOR, ALCOSAN

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11 OF 17

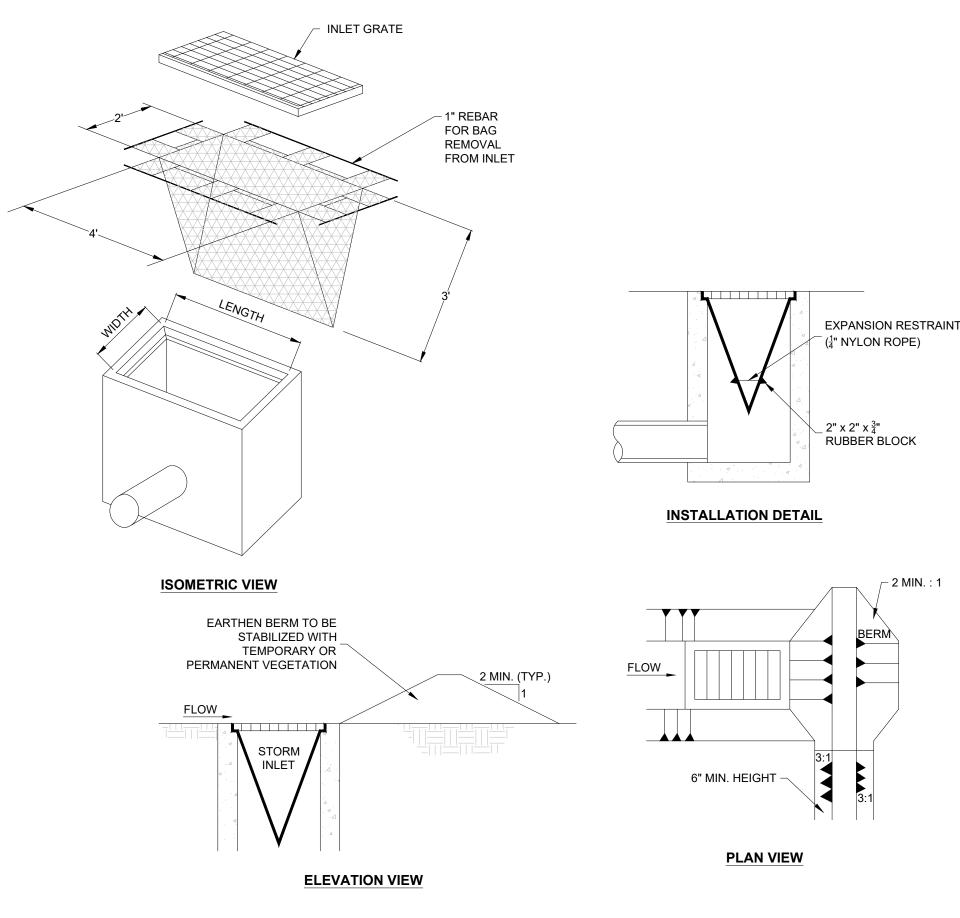
Contract:



- 1. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
- 2. ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
- 3. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
- 4. INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

FILTER BAG INLET PROTECTION - TYPE C INLET

N.T.S.

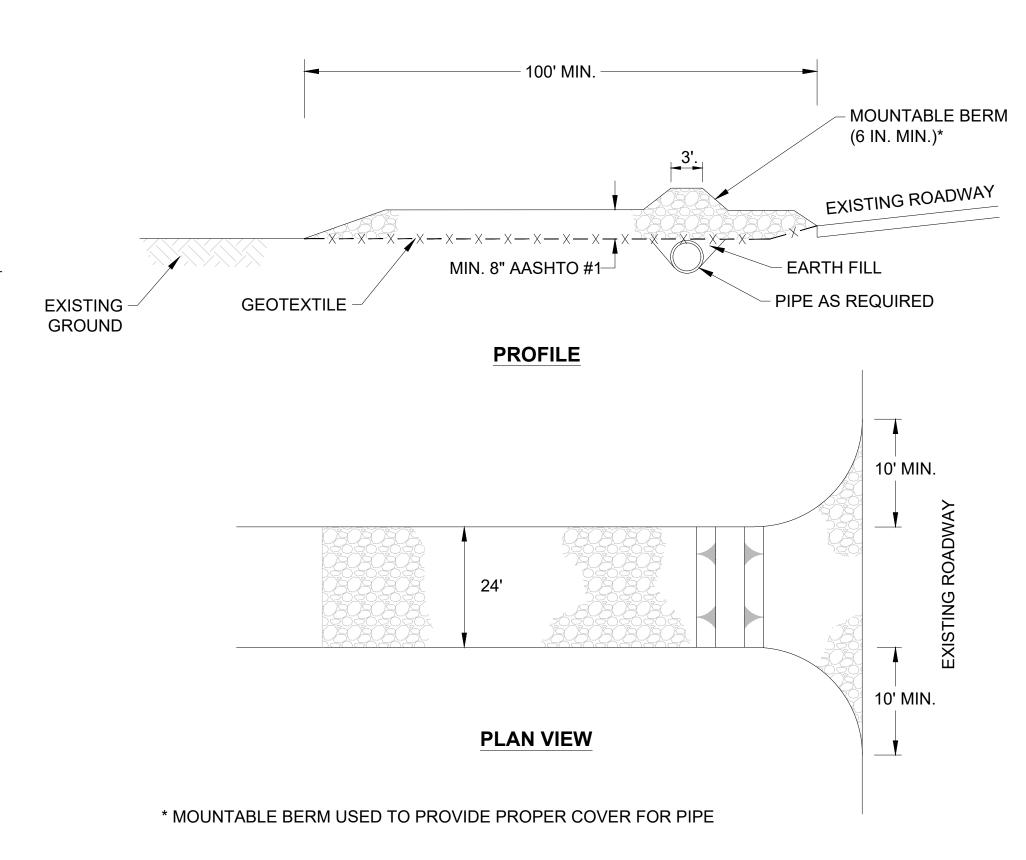


NOTES:

- 1. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
- 2. ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.
- 3. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI. AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
- 4. INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

FILTER BAG INLET PROTECTION - TYPE M INLET

N.T.S.



- 1) REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
- 2) MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH
- 3) MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.
- 4) STREET SWEEPING ON PAVED ROADS
 - a. USE A VACUUM TRUCK SWEEPER OR SWEEPER WITH A CATCH BIN ATTACHMENT.
 - b. AT A MINIMUM ANY DAY IN WHICH CONSTRUCTION TRAFFIC IS EXITING THE ROCK CONSTRUCTION ENTRANCE, THE VACUUM TRUCK SWEEPER OR SWEEPER WITH A CATCH BIN ATTACHMENT SHALL CLEAN THE ROAD WAY AT THE END OF THE WORK DAY AND PRIOR TO ANY FORECASTED RAIN EVENT.
- 5) STREET SWEEPING ON DIRT OR GRAVEL SURFACE PUBLIC ROADS
- a. RIGOROUS MANUAL REMOVAL OF MUD/DIRT FROM VEHICLE/EQUIPMENT TIRES PRIOR TO EXITING CONSTRUCTION SITE, SUPPLEMENTED BY IMMEDIATE RECOVERY, BY MANUAL OR MECHANICAL MEANS, OF SOIL WHICH MAY BECOME DISCHARGED ONTO PUBLIC ROADWAYS. DUST CONTROL AND/OR COMPACTION VIA ROLLING OF THE DIRT PUBLIC ROAD SURFACE WILL BE IMPLEMENTED AS NEEDED.

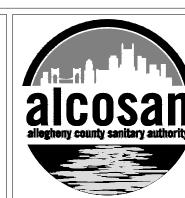
ROCK CONSTRUCTION ENTRANCE

N.T.S.

Designed by:		REVISION				
	REV No.	DATE	DESCRIPTION	APPV		
K. ALSPACH	1	05/30/25	60% DESIGN REVIEW	RO		
Drawn by:	2	06/20/25	90% DESIGN REVIEW	RO		
C. CAVANAGH	3	07/25/25	100% DESIGN	RO		
Checked by:						
R. O'CONNELL						

AECOM 436 SEVENTH AVENUE, SUITE 1200 PITTSBURGH, PA 15219 (412) 395-8888







ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN

> 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810

CONTRACT No. 1816 **E&S CONTROL STANDARD DETAILS** 2 OF 2

ALLEGHENY COUNTY SANITARY AUTHORITY

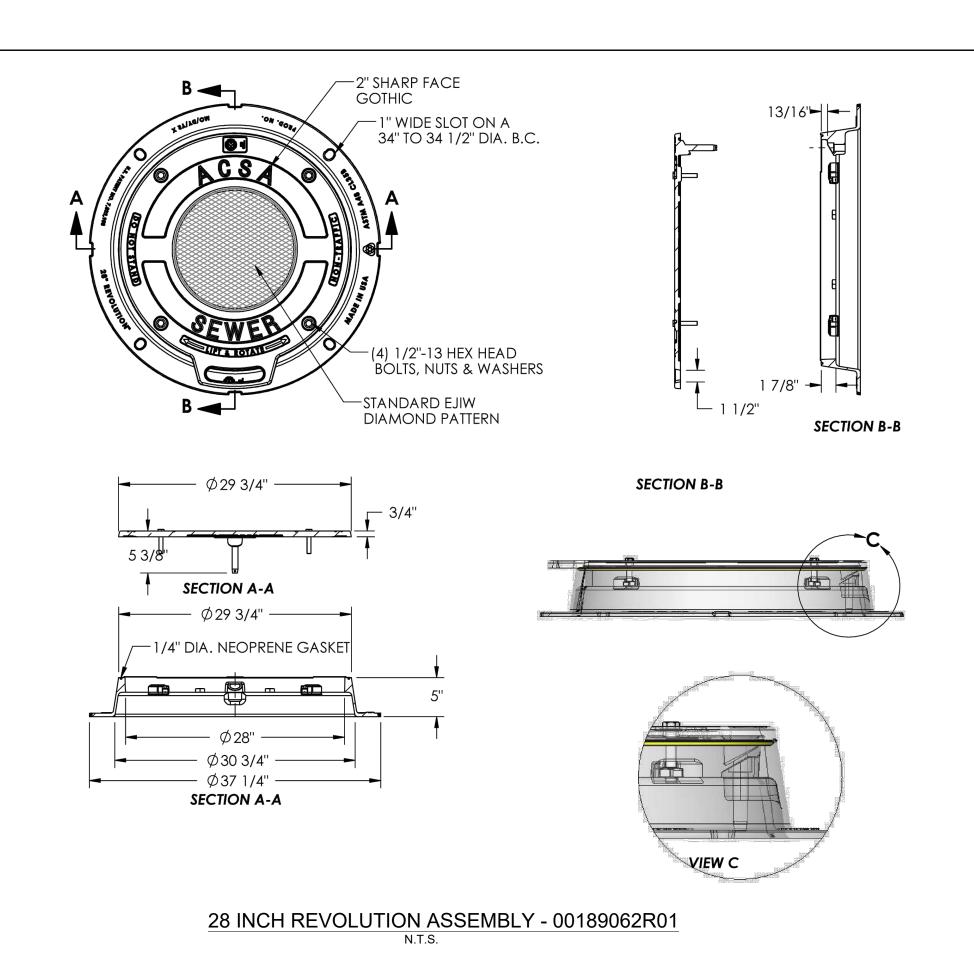
REGIONAL CONVEYANCE SYSTEM

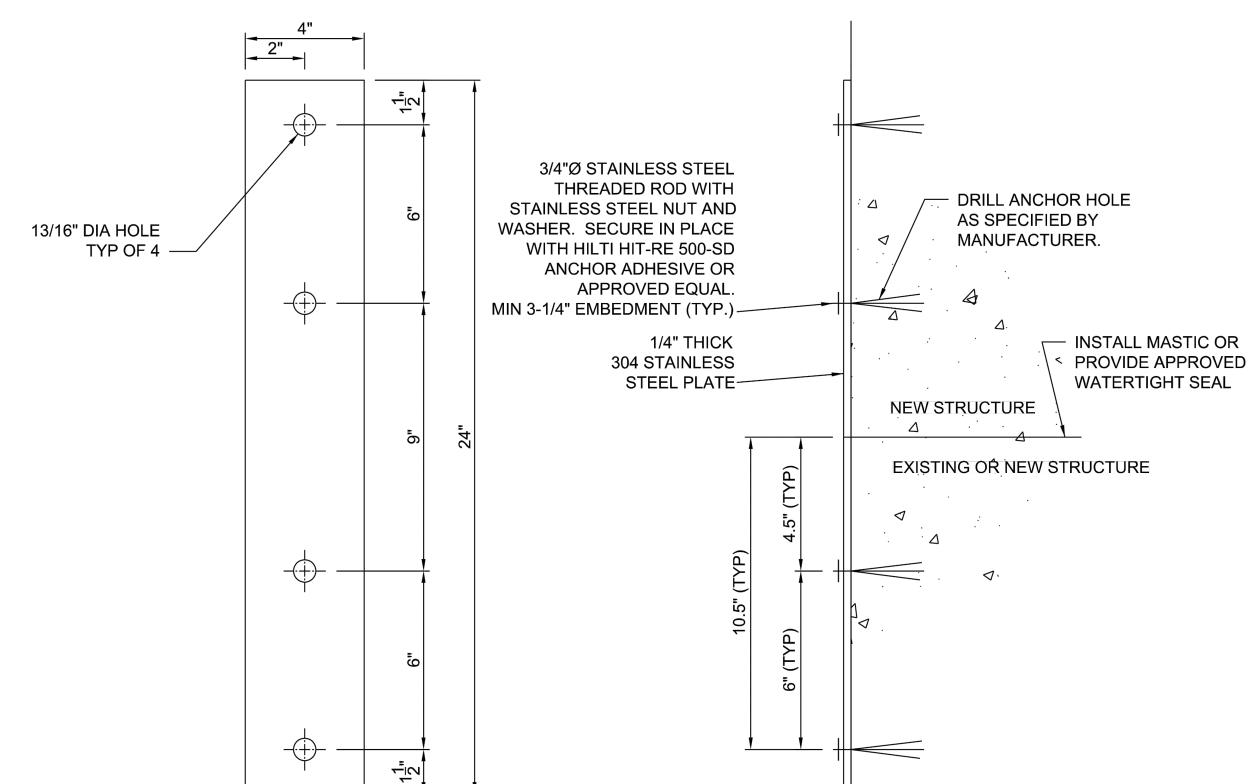
MANHOLE IMPROVEMENT CONTRACT

Contract: 1816 CAD File Name: 1816-C-009.DWG Date: 07 / 25 / 2025 Sheet:

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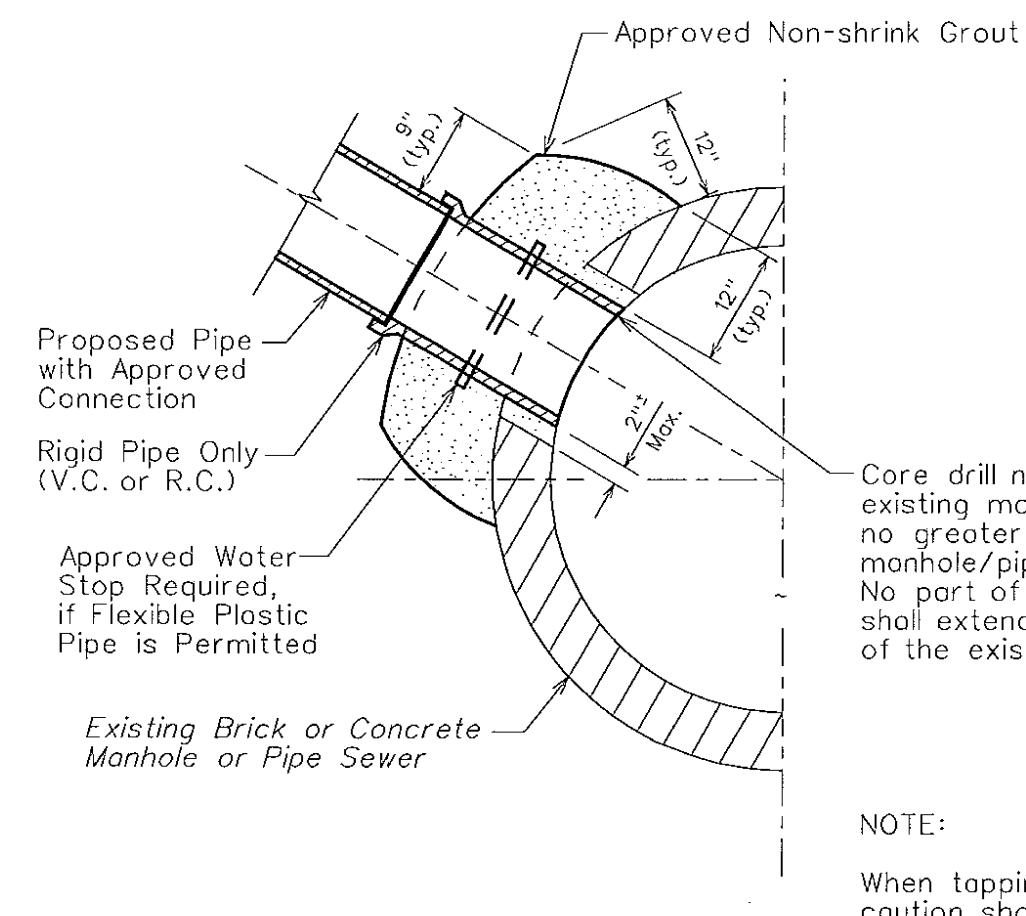
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24" STRAP

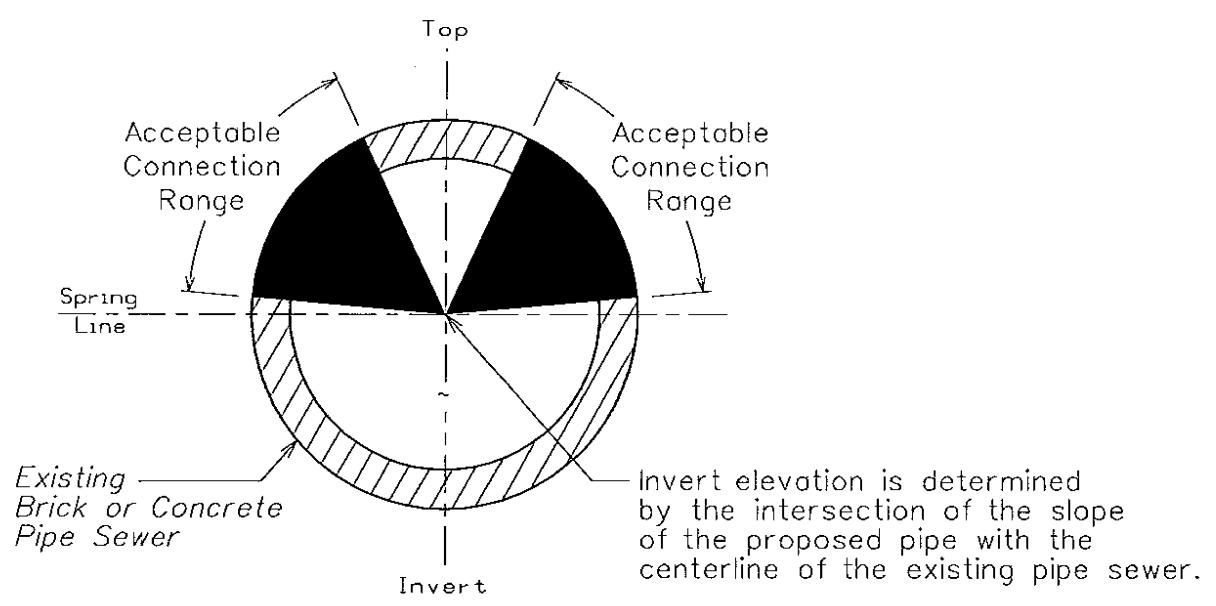
STRAP INSTALLATION



Core drill neat hale into existing manhole/pipe sewer no greater than 30% of the manhole/pipe sewer diameter. No part of the proposed work shall extend past the inside face of the existing manhole/pipe sewer.

NOTE:

When tapping existing manholes, caution should be taken not to impact manhole steps.

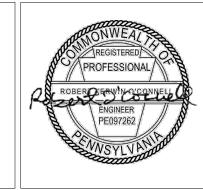


MANHOLE/PIPE SEWER ZONE CONNECTION DETAIL

Designed by:			REVISION	
	REV No.	DATE	DESCRIPTION	APP
K. ALSPACH	\triangle	05/30/25	60% DESIGN REVIEW	RO
Drawn by:	2	06/20/25	90% DESIGN REVIEW	RO
C. CAVANAGH	<u>/3\</u>	07/25/25	100% DESIGN	RO
Checked by:				
,				
R. O'CONNELL				

STRAP DIMENSIONS

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alcosan allegheny county sanitary authority	
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ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM	
MANHOLE IMPROVEMENT CONTRACT	
CONTRACT No. 1816	_

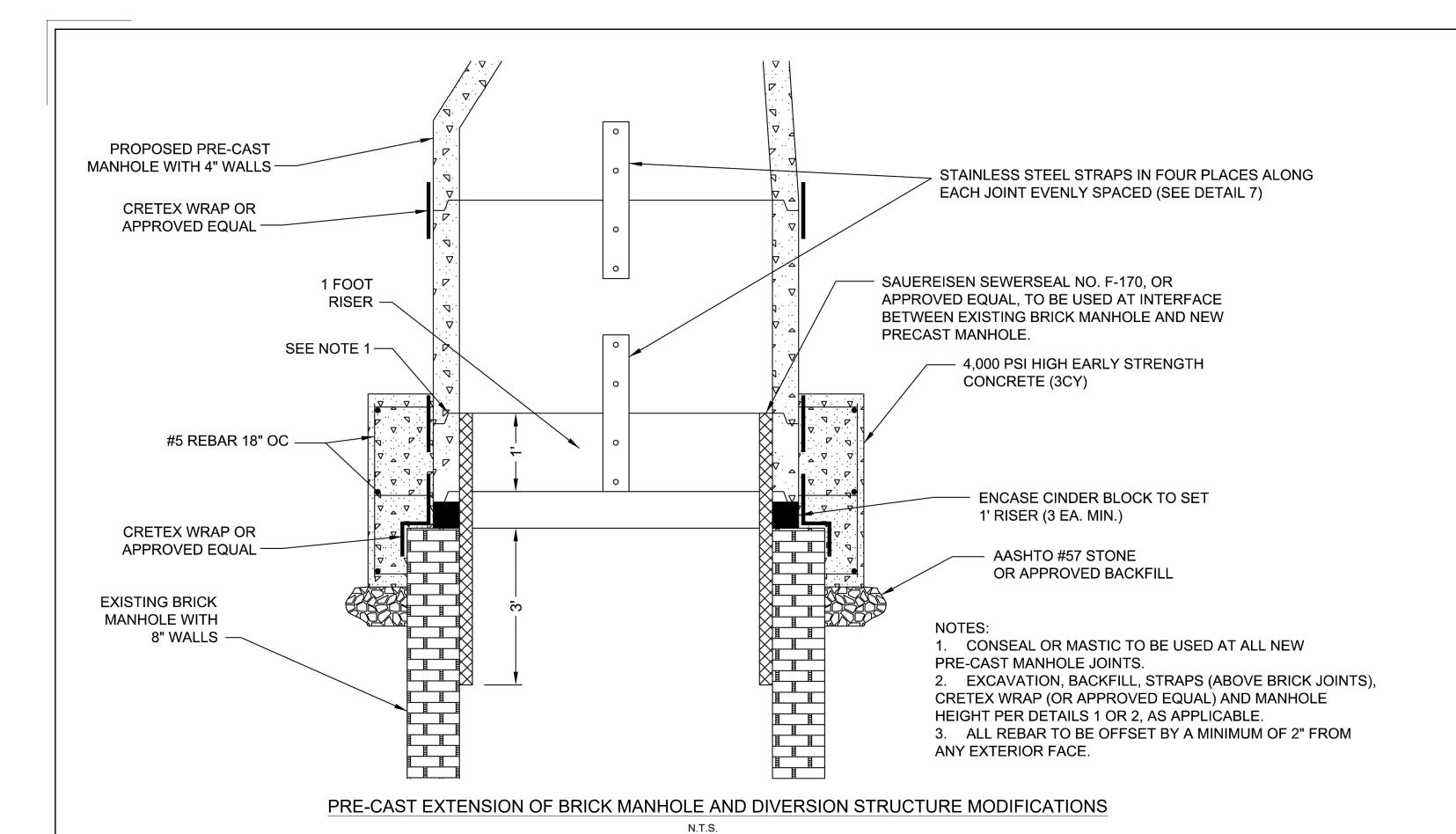
STANDARD DETAILS

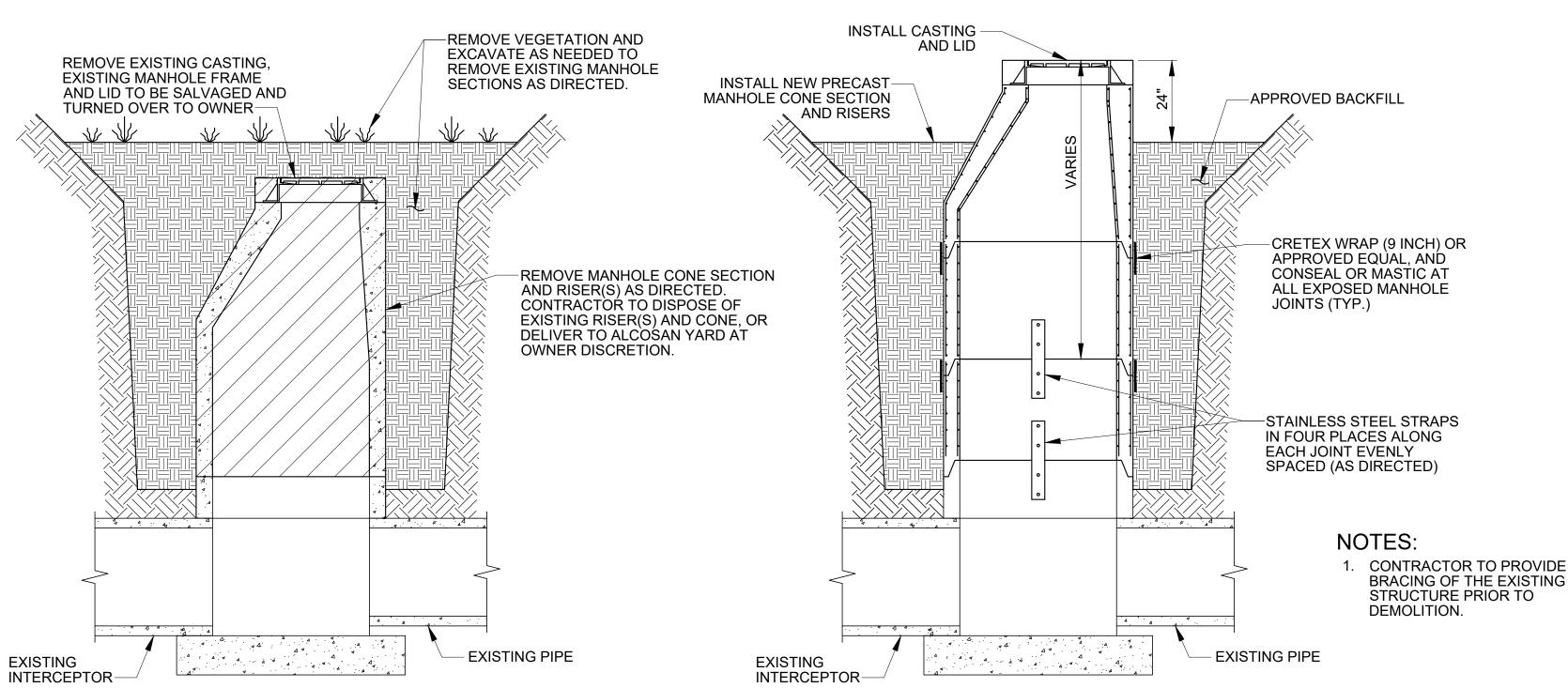
CAD File Name: 1816-C-010.DWG 07 / 25 / 2025 Sheet: 13 OF 17

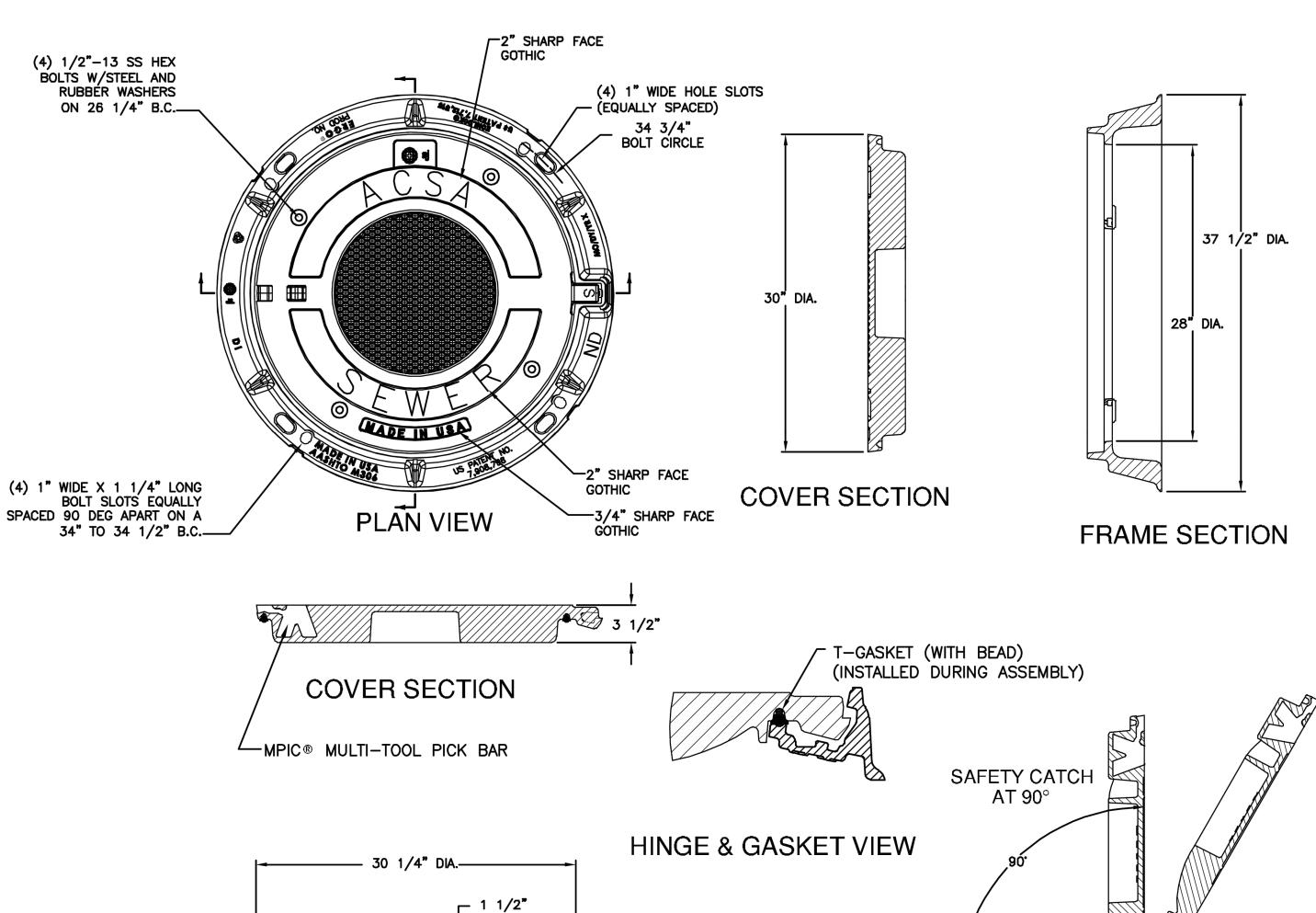
Contract:

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1 OF 2







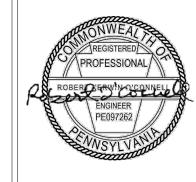
ERGO ASSEMBLY - 00189061L01 N.T.S.

REMOVAL OF EXISTING MANHOLE SECTIONS AND REPLACEMENT WITH NEW MANHOLE RISERS, CONE AND CASTING N.T.S.

REVISION Designed by: REV No. DATE **DESCRIPTION** APPV K. ALSPACH RO 05/30/25 60% DESIGN REVIEW Drawn by: 06/20/25 90% DESIGN REVIEW RO 07/25/25 100% DESIGN RO C. CAVANAGH Checked by: R. O'CONNELL

AECOM 436 SEVENTH AVENUE, SUITE 1200 PITTSBURGH, PA 15219

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FRAME SECTION

ARLETTA SCOTT WILLIAM EXECUTIVE DIRECTOR, ALCOS
3300 PREBLE AV
PITTSBURGH, PA 152

(412) 766 - 4810

ALLEGHENY COUNTY SANITARY AUTHORITY
REGIONAL CONVEYANCE SYSTEM
MANHOLE IMPROVEMENT CONTRACT
CONTRACT No. 1816

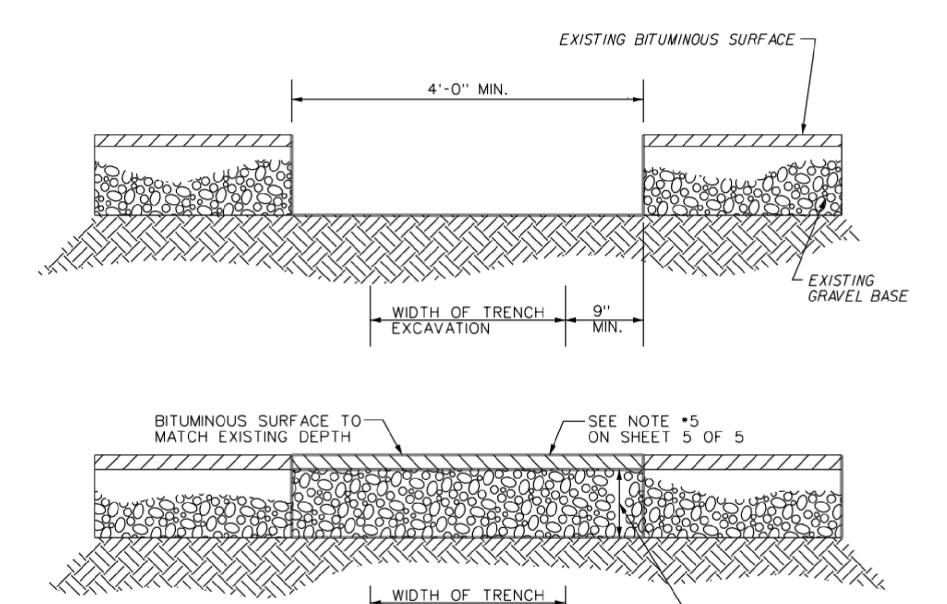
STANDARD DETAILS

2 OF 2

Contract:
1816
CAD File Name:
1816-C-011.DWG
Date:
07 / 25 / 2025
Sheet:
14 OF 17

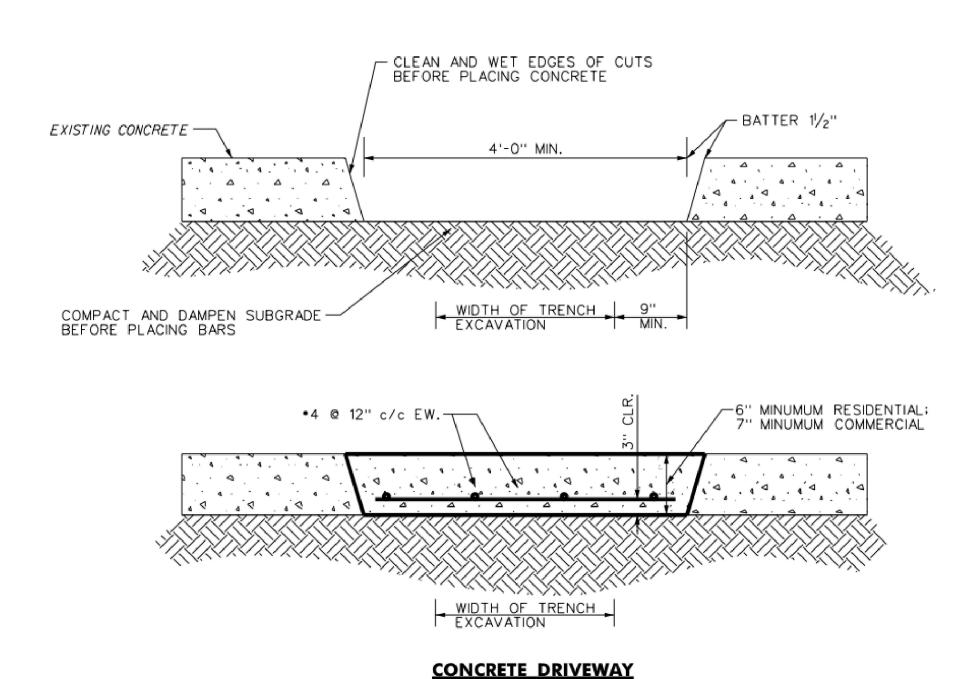
REMOVAL AT 120°

HINGE POSITONS

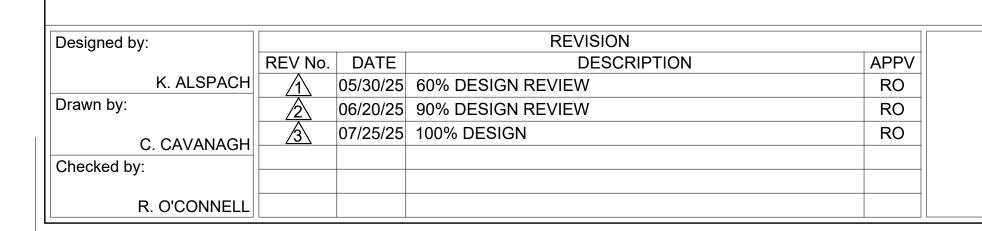


BITUMINOUS DRIVEWAY OVER GRAVEL

CUTTING AND REPAIRING BITUMINOUS DRIVEWAY OVER GRAVEL - 4A



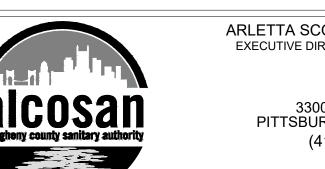
CUTTING AND REPAIRING CONCRETE DRIVEWAY - 4B N.T.S.











ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810

Contract: ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM CAD File Name: MANHOLE IMPROVEMENT CONTRACT 1816-C-012.DWG CONTRACT No. 1816 Date: RESTORATION DETAILS

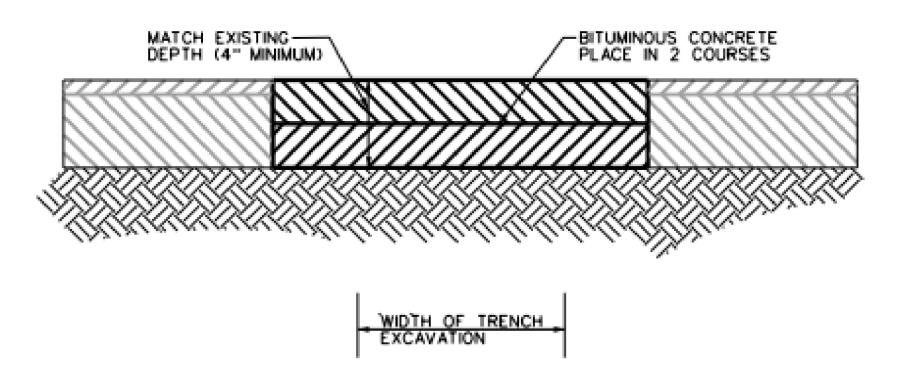
1 OF 3

07 / 25 / 2025

15 OF 17

Sheet:

4"-0" MIN.



BITUMINOUS DRIVEWAY - FULL DEPTH

GENERAL NOTES FOR DRAWINGS 4 of 5 & 5 of 5 (FORMERLY M-5.1):

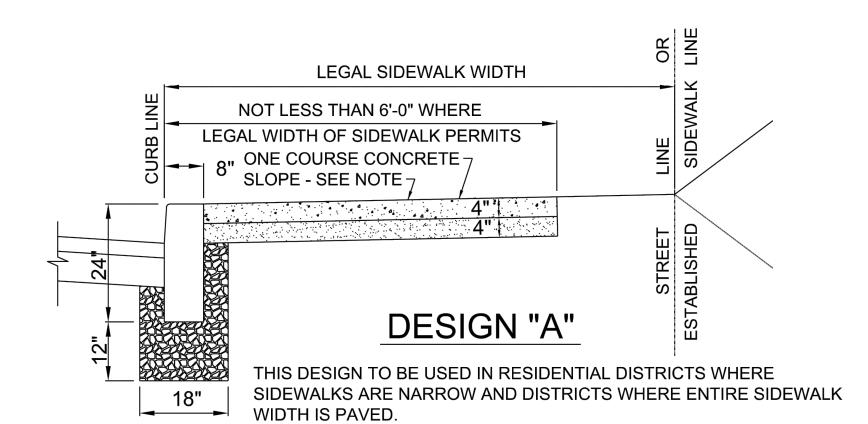
ALL CONCRETE SHALL BE CLASS PP.

EXISTING BITUMINOUS SURFACE -

- 2. BITUMINOUS CONCRETE SHALL BE IN ACCORDANCE w/CITY OF PITTSBURGH SPECIFICATIONS.
- 3. PRIOR TO PLACING BITUMINOUS SURFACING, ALL UTILITY STRUCTURES SHALL BE BROUGHT TO GRADE. BACKFILL AROUND UTILITY STRUCTURES WITH CLASS A, AA, P OR PP CONCRETE AS DIRECTED.
- REMOVE EXISTING CONCRETE DRIVEWAY TO NEAREST JOINT, WHEN DIRECTED.
- 5. ALL EXPOSED EDGES OF EXISTING BITUMINOUS SURFACE COURSE AND SURFACE OF CONCRETE BASE SHALL BE PRIMED BEFORE THE BITUMINOUS MIXTURE IS PLACED.

CUTTING AND REPAIRING DRIVEWAY - 5

N.T.S.



SLOPE OF SIDEWALKS

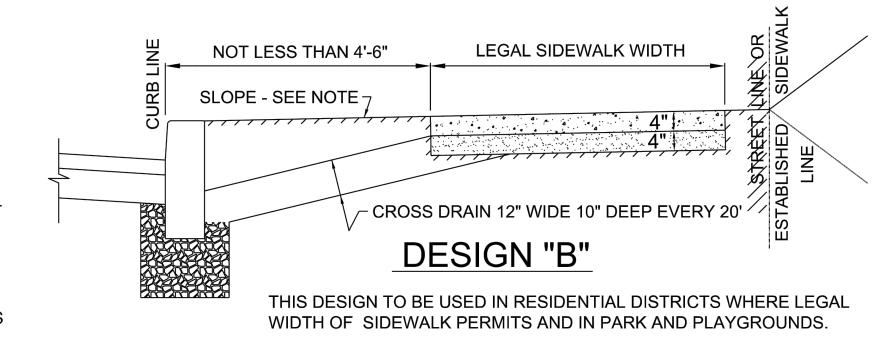
ON GRADES UP TO 2 PERCENT ½" IN 1 FT.

ON GRADES ABOVE 2 TO 7 PERCENT %" IN 1 FT.

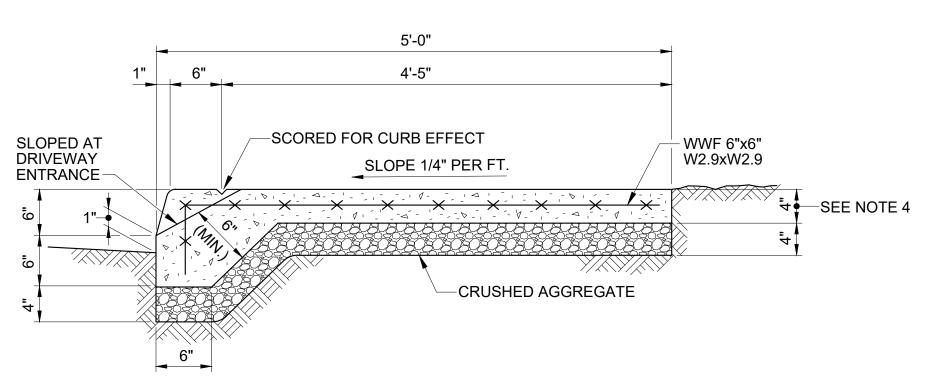
ON GRADES ABOVE 7 PERCENT 1/4" IN 1 FT.

THE ABOVE DESIGNS SHALL BE USED WHERE PRACTICAL AND WITH DUE CONSIDERATION TO EXISTING CONSTRUCTION AND CHARACTER OF IMPROVEMENTS IN THE COMMUNITY AFFECTED. CURBS TO BE FORMED AND PLACED SEPARATE FROM SIDEWALKS.

AROUND ALL POLES, FIRE HYDRANTS, OR OTHER STRUCTURES PROVIDE A FULL DEPTH CONSTRUCTION JOINT IN THE SIDEWALK 6" CLEAR OF THE POLE OR STRUCTURES.



STANDARD SIDEWALK PAVEMENTS ARRANGEMENT AND CONSTRUCTION N.T.S.

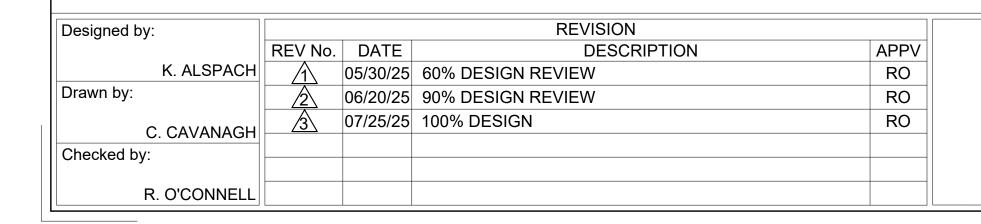


NOTES:

- SIDEWALK SHALL BE CROSS-SCORED EVERY 4 FEET.
- 2. 1/2" PREFORMED EXPANSION JOINTS EVERY 20 FEET, MAX.
- 3. USE 4000 psi AIR-ENTRAINED CONCRETE.
- 4. PROVIDE 6 INCH (MIN.) THICKNESS FOR APRONS, AND SIDEWALKS THAT CROSS DRIVEWAYS, ROADWAYS, AND AREAS SUBJECT TO VEHICULAR TRAFFIC.

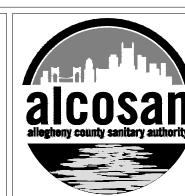
TYPICAL COMBINATION CONCRETE CURB AND SIDEWALK DETAIL

N.T.S.









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ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 ALLEGHENY COUNTY SANITARY AUTHORITY REGIONAL CONVEYANCE SYSTEM MANHOLE IMPROVEMENT CONTRACT CONTRACT No. 1816 RESTORATION DETAILS

2 OF 3

Contract: CAD File Name: 1816-C-013.DWG Date: 07 / 25 / 2025 Sheet: 16 OF 17

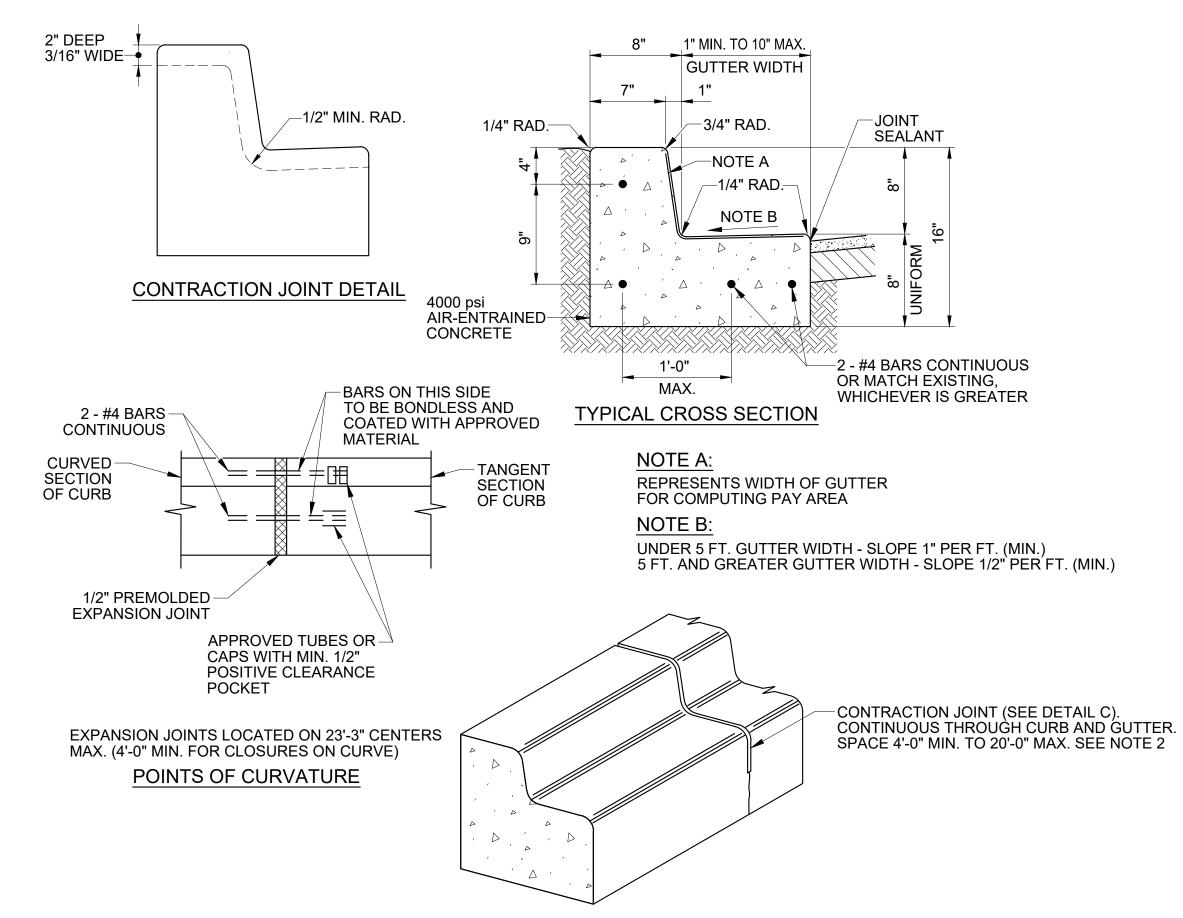
-BARS ON THIS SIDE TO BE BONDLESS AND 2 - #4 BARS -**COATED WITH APPROVED** CONTINUOUS **MATERIAL** CURVED-- TANGENT 3/4" RAD.--1/4" RAD. SECTION SECTION OF CURB OF CURB JOINT SEALANT 1/2" PREMOLDED **EXPANSION JOINT** APPROVED TUBES OR-CAPS WITH MIN. 1/2" POSITIVE CLEARANCE POCKET **EXPANSION JOINTS LOCATED ON 23'-3" CENTERS** MAX. (4'-0" MIN. FOR CLOSURES ON CURVE) - 2 - #4 BARS CONTINUOUS POINTS OF CURVATURE -8"x18" (MIN.) CURB. 4000 psi AIR ENTRAINED **SECTION** NOTES:

1. SLOPE TERMINAL ENDS OF CURBS 45 DEG. TO MEET EXISTING GRADES.

STANDARD CONCRETE CURB

CONCRETE

N.T.S.

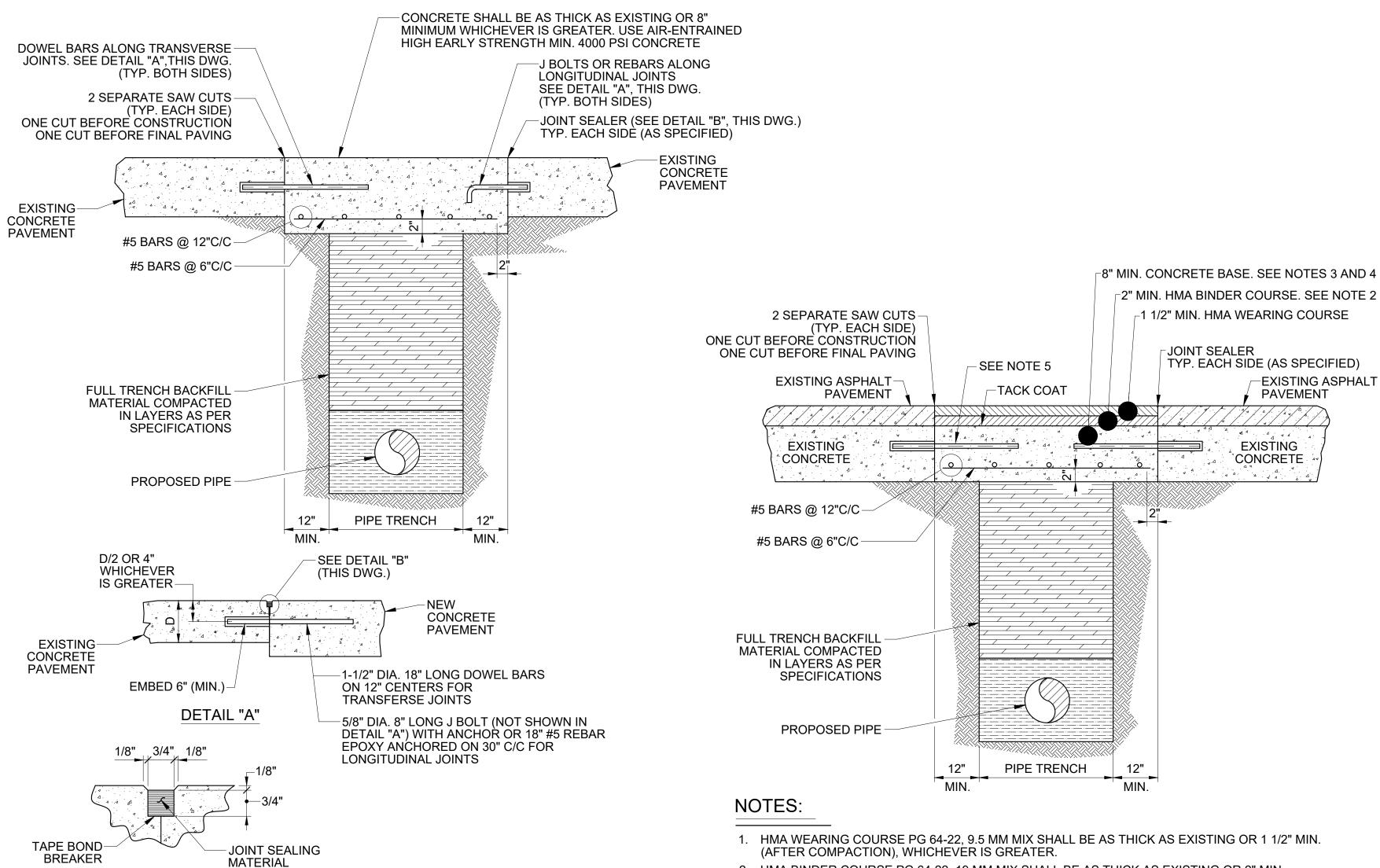


PLAIN CONCRETE CURB AND GUTTER

NOTES:

- ALL WORK TO BE IN ACCORDANCE WITH PENNDOT STANDARDS. REFERENCE PENNDOT STANDARD RC-64.
- 2. SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS OR SECTIONS.
- 3. PLACE 3/4" PREMOLDED EXPANSION JOINT FILLER MATERIAL AT STRUCTURES AND AT THE END OF THE WORK DAY. CUT MATERIAL TO CONFORM TO AREA ADJACENT TO CURB OR TO CROSS SECTIONAL AREA OF CURB.
- 4. DIMENSIONS SHOWN ARE MINIMUM REQUIREMENTS OR MATCH EXISTING, WHICHEVER IS GREATER.
- 5. LIMITS OF REPLACEMENT SHALL BE THE PIPE TRENCH PLUS TWO (2) FEET MAXIMUM, OR AS SPECIFIED.

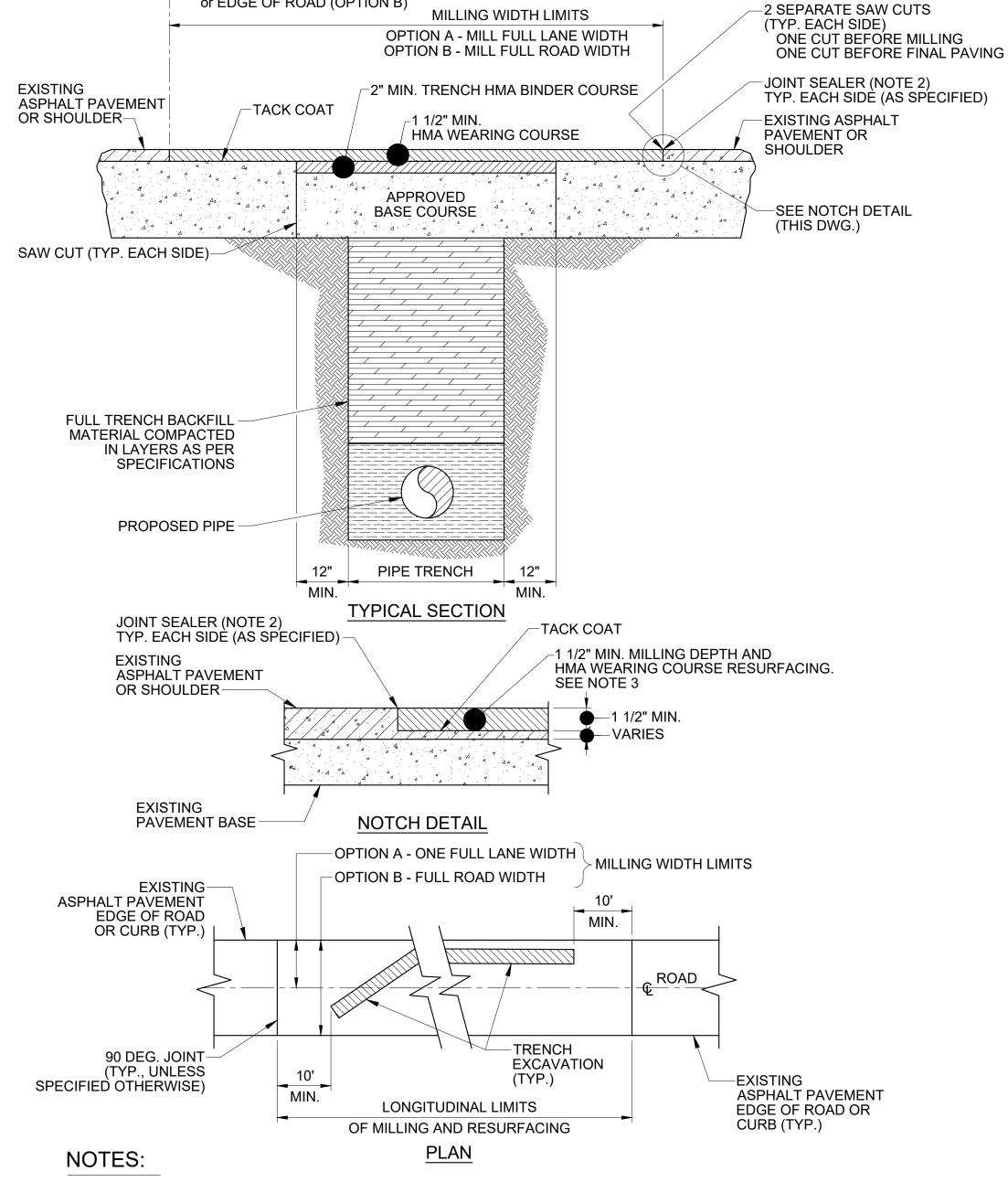
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PIPE TRENCH CONCRETE PAVEMENT REPLACEMENT

- 2. HMA BINDER COURSE PG 64-22, 19 MM MIX SHALL BE AS THICK AS EXISTING OR 2" MIN., WHICHEVER IS GREATER.
- 3. CONCRETE SHALL BE AS THICK AS EXISTING OR 8" MIN., WHICHEVER IS GREATER.
- 4. USE AIR ENTRAINED HIGH EARLY STRENGTH (PER STATE DOT REQUIREMENTS). MIN. 4000 psi CONCRETE.
- 5. REFERENCE DETAIL RES-1 FOR ADDITIONAL INFORMATION ON DOWELS AND JOINT SEALER.
- 6. ALL HOT MIX ASPHALT (HMA) SHALL BE SUPERPAVE ASPHALT MIXTURE DESIGN.

PIPE TRENCH ASPHALT OVER CONCRETE PAVEMENT REPLACEMENT USING CONCRETE BASE N.T.S.



- 1. FULL LANE WIDTH (OPTION A) OR FULL ROAD WIDTH (OPTION B) HMA WEARING COURSE, PG 64-22, 9.5 MM MIX SHALL BE AS THICK AS EXISTING OR 1 1/2" (MIN.) AFTER COMPACTION, WHICHEVER
- 2. TRENCH HMA BINDER COURSE, PG 64-22, 19 MM MIX SHALL BE AS THICK AS EXISTING OR 2" (MIN.) AFTER COMPACTION, WHICHEVER IS GREATER.
- 3. MILL THE EXISTING ROAD SURFACE TO A MINIMUM DEPTH OF 1 1/2".

© EXISTING ROADWAY (OPTION A)

or EDGE OF ROAD (OPTION B)

4. REPAINT ALL PAVEMENT MARKINGS.

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- 5. ALL HOT MIX ASPHALT (HMA) SHALL BE SUPERPAVE ASPHALT MIXTURE DESIGN.
- 6. EXISTING SURFACE LINE TO BE MAINTAINED BY FINAL RESURFACING OF WEARING COURSE.
- 7. SEAL ALL JOINTS ALONG CURB LINES, NOTCH LINES AND AROUND UTILITY / OPENINGS WITH SAME ASPHALT CEMENT AS USED IN THE HMA COURSE.

PIPE TRENCH AND FULL LANE / FULL ROAD WIDTH MILLING AND ASPHALT PAVEMENT RESURFACING

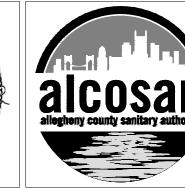
N.T.S.

REVISION Designed by: REV No. DATE DESCRIPTION APPV K. ALSPACH RO 05/30/25 60% DESIGN REVIEW Drawn by: RO 06/20/25 90% DESIGN REVIEW RO 07/25/25 100% DESIGN C. CAVANAGH Checked by: R. O'CONNELL

DETAIL "B'

AECOM 436 SEVENTH AVENUE, SUITE 1200 PITTSBURGH, PA 15219 (412) 395-8888





ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN
3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810

ALLEGHENY COUNTY SANITARY AUTHORITY	Contract:
REGIONAL CONVEYANCE SYSTEM	1810
MANHOLE IMPROVEMENT CONTRACT	CAD File Name:
	1816-C-014.DWC
CONTRACT No. 1816	Date:
RESTORATION DETAILS	07 / 25 / 202
3 OF 3	Sheet:
0 01 0	17 OF 1

ATTACHMENT F Pre-Bid Meeting Minutes



CONTRACT 1816 MANHOLE IMPROVEMENTS CONTRACT

PRE-BID MEETING MINUTES Wednesday, August 13, 2025 10:00 AM Microsoft Teams

INTRODUCTIONS

Steven Bristol, EIT ALCOSAN Project Manager

Julia Spicher ALCOSAN Manager of Regionalization
Caitlin Cavanagh AECOM Water Resources Engineer

Not Present

Michael Lichte, PE ALCOSAN Director of Regional Conveyance

POWER POINT PRESENTATION

Slides presented by Steven Bristol, the ALCOSAN Project Manager, and provided as Attachment B.

Note: Meeting was recorded for compiling meeting minutes.

New date for the Bid Opening will take place on September 12, 2025, at 2:00pm.

New date for the last day of questions will take place on August 29, 2025, at 4:00pm.

Contract 1816: "Manhole Improvement Contract"

Pre-Bid Site Visit

Date: Wednesday August 27, 2025

Start Time: 8:00AM

Locations:

1. "Manhole 1" - JT0167S01

Intersection of 5th St & Short Canal St, Sharpsburg Closest address: 6 5th Street, Sharpsburg 15215

2. "Manhole 2" – JT0130L03

Intersection of E 8th Ave and Brook Way

Closest address: 514 E 8th Ave, Munhall 15120

3. "Manhole 3" – JT0130L10

Sidewalk on the northern side of E 8th Ave

Closest address: 491 E 8th Ave, Homestead 15120

4. M-60

Near the Braddock Public Ramp to the Monongahela River Closest address: 1101 Braddock Ave, Braddock 15104

Safety: Closed-toe shoes and high-visibility vests.

Parking: Please find the closest available street parking and be mindful of

traffic when exiting your vehicles.

Contacts:

ALCOSAN, Steven Bristol 412-742-1530 AECOM, Dave Onorato 412-736-4431 AECOM, Caitlin Cavanagh 908-239-5208

Maps can be made available upon request.

ATTACHMENT G PRESENTATION SLIDES

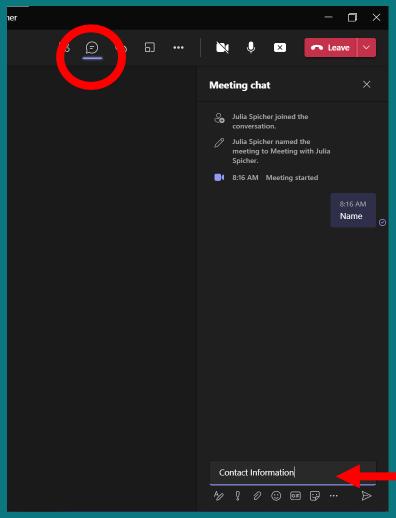


Contract 1816 Manhole Improvement Contract

August 13th, 2025



Pre-Bid Meeting



- This Pre-Bid Meeting is being recorded for record purposes and for compiling minutes
- Mandatory Pre-Bid meeting per Legal Notice
- Enter in Chat Window
 - Name
 - Company
 - Phone Number
 - Email
- Email contact information to contract.clerks@alcosan.org



- Introductions
- Scope of Work
- Contract Dates
- Submission of Bids
- Questions



Project Manager: Steven Bristol

Manager: Julia Spicher

Director: Michael Lichte, PE

Designer: AECOM

• CM Services: TBD



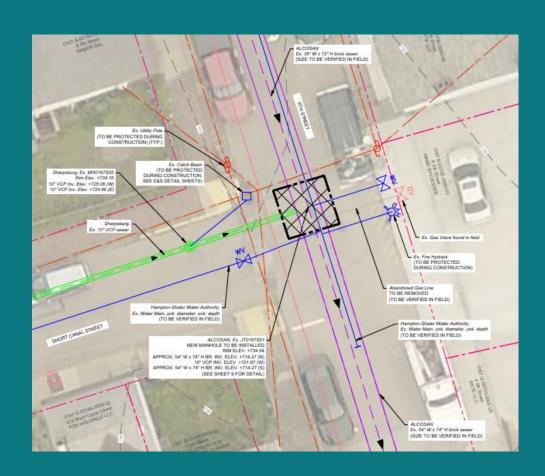
Project Description

- Installation of 3 new sewer manholes
- Rehabilitation of 4 existing sewer manholes
- Installation of 22 new castings and frames on existing sewer manholes
- Indefinite delivery, indefinite quantity (IDIQ) contract for manhole repairs, as directed by ALCOSAN
 - Additional Bid Item currently under design
- Engineer's Estimate = \$2.5M to \$3.0M



New Manhole Installation

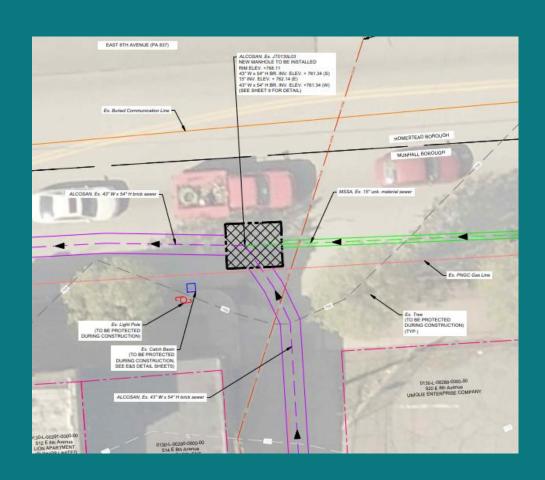
- Install new manhole at existing junction (JT0167S01)
- Pipe Owners: ALCOSAN and Sharpsburg Borough
- POC: A-69
- Waterline relocation anticipated





New Manhole Installation

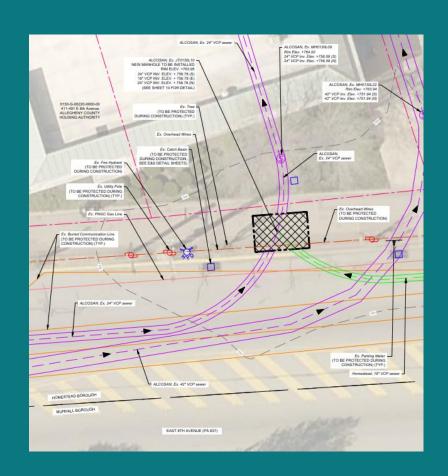
- Install new manhole at existing junction (JT0130L03)
- Pipe Owners: ALCOSAN and Munhall Municipal Sanitary Authority
- POC: M-45
- Highway Occupancy Permit (HOP) Required





New Manhole Installation

- Install new manhole at existing junction (JT0130L10)
- Pipe Owners: ALCOSAN, Homestead Borough
- POC: M-45
- Highway Occupancy Permit (HOP) Required





Manhole Rehabilitation Locations



- 1. INSTALL A PRECAST EXTENSION ON THE EXISTING BRICK MANHOLE, DIMENSIONS OF THE PRECAST COMPONENTS SHALL BE DETERMINED IN THE FIELD BASED ON THE EXISTING
- 2. ONCE FIELD MEASUREMENTS ARE VERIFIED. SUBMITTALS FOR THE PRECAST MANHOLE COMPONENTS MUST BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

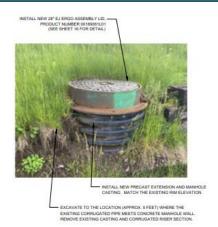
REHABILITATION OF MANHOLE 4 (ASSET ID MH0122C01)

EXCAVATE ROCK AND DEBRIS (APPROX. 5 FEET)



- 1. REFER TO PENNOOT PUB 408/2020 SPECIFICATIONS SECTION 608 "GRADE ADJUSTMENT OF EXISTING MISCELLANEOUS STRUCTURES" FOR VERTICAL ADJUSTMENTS OF 6 INCHES OR LESS.
- 2. SEE SHEET 15 FOR DETAILS ON DRIVEWAY CUITTING AND REPAIRING.

REHABILITATION OF MANHOLE 5 (ASSET ID MH1107A05)



REHABILITATION OF MANHOLE 6 (ASSET ID MH0521J08)



MANHOLE 7 CURRENT SURFACE CONDITIONS SOUTH-FACING VIEW (JULY 2025)



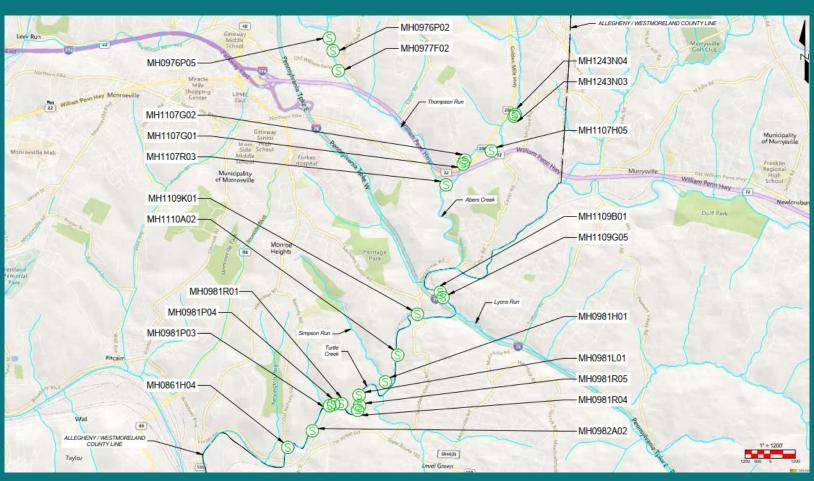
MANHOLE 7 EXISTING CONICAL RISER NORTH-FACING VIEW (MARCH 2013)

- INSTALL A PRECAST EXTENSION ON THE EXISTING BRICK MANHOLE. DIMENSIONS OF THE PRECAST COMPONENTS SHALL BE DETERMINED IN THE FIELD BASED ON THE EXISTING MANHOLE STRUCTURE.
- ONCE FIELD MEASUREMENTS ARE VERIFIED, SUBMITTALS FOR THE PRECAST MANHOLE COMPONENTS MUST BE PROVIDED FOR REVIEW AND APPROVAL PROR TO INSTALLATION.

REHABILITATION OF MANHOLE 7 (ASSET ID S-39)



New Casting and Frame Installation (POC: T-29A-10)





New Casting and Frame Installation (POC: T-29A-10)

Access Issues Anticipated

MH0861H04



MH1107G01



MH1109G05





cosan Additional Bid Items

- Abandon outfall to M-60-RG (Regulator)
- Design In Progress
 - Bulkhead
 - Partial demolition of MH0302N07
 - Fill outfall pipes with flowable backfill
- More information to be provided in Addendum 1





Pre-Bid Site Visit

- Time and Date: TBD
- Locations:
 - JT0167S01 5th St & Short Canal St, Sharpsburg
 - JT0130L03 514 E 8th Ave, Munhall
 - JT0130L10 491 E 8th Ave, Homestead
 - 1-2 Manhole Rehabilitation Sites

Contractor is responsible to become familiar with all project sites. Bids should include consideration for site conditions to complete the work.



Milestone	Date*
Bid Opening	August 27, 2025
Award Construction Contract	September 2025
Construction Notice to Proceed	TBD
Pre-Construction Meeting	TBD
Contract Completed	TBD

^{*}New dates to be provided in Addendum 1

- Technical questions should be sent to Steven_Bristol@alcosan.org
- Contract questions should be sent to contract.clerks@alcosan.org



- Public bid opening is currently scheduled for August 27, 2025. New dates are to be provided in Addendum 1.
- Contract documents can be obtained from the ALCOSAN Contract Clerks for a non-refundable cost of \$100.00.
- Contract documents must be purchased from ALCOSAN to qualify as an eligible bidder



Submission of Bids

- A. Submission and Opening of Bids is covered in Section 2.7.
- B. Sealed Bids must be labeled "SEALED BID FOR CONTRACT NO. 1816, MANHOLE IMPROVEMENT CONTRACT" and addressed to the **Allegheny County Sanitary Authority,** ALCOSAN Engineering Department, Attn: Contract Clerks, in the provided envelope on or before the Bid Opening time and date.
- C. Late bids will be treated as "nonresponsive" and returned to the Bidder unopened.
- D. Submission of Bid: All Article 1 documents must be completed and submitted with the bid.
- E. Include acknowledgment of all Addenda.



- Lowest responsive Bidder will be based on the sum of Bid Items 1 through C-56.
- Only the Article 1 Bidding Documents and supporting documents need to be submitted in the bid envelope, not the entire specifications book.
- The intent is to award this Contract at the Board Meeting.
- Deadline for questions is 10 Days prior to Bid Opening.



- Description Of Bid Items are included in Section 2.4.
- If any alleged errors are noted in the Contract Documents, Bidder should immediately notify Steven Bristol and, if confirmed, Addenda will be sent to all prospective Bidders known to have received the Contract Documents.



- If a Bid is submitted with conditions or exceptions, or not in conformance with the terms and conditions of the Contract Documents, it may be rejected.
- Supplementary Information Package (SIP): Section 2.8. Submit SIP documents to ALCOSAN with the Bid Documents to expedite the bid review process. Additional information will be requested as needed during the bid review period.
- ALCOSAN reserves the right to reject any and all bids.
- Quantities of Contingent Items, Language per Article 2.17 C and Section 01025 Measurement and Payment



- The Bidder shall acknowledge any addenda issued by signing and returning the Acknowledgment attached to any issued Addenda immediately via fax to the Engineering Department, attention to email at CONTRACT.CLERKS@alcosan.org and providing a hard copy of the Acknowledgement with the Bidder's Proposal.
- Bid Security in the amount of 10% of the Total Lump Sum Price bid is required via certified check or bid bond.
- Attachment A: The Contractor and subcontractors shall review the Labor Stabilization Agreement and execute a Letter of Assent prior to commencing work.



- Section 3.73 Health, Safety and Environmental Laws
 - ALCOSAN approval of the Contractor's safety manual is required before work can start.
- Section 3.75 Working Hours
 - Any work performed outside normal working hours as defined in Article 3.75 will require prior approval and 48-hour notice.
- Exhibit A Insurance Requirements
 - Certificates required before any work begins.



ARTICLE 4 - CONTRACT AGREEMENT

- Substantial Completion of Contract 1816 450 Calendar days from Notice to Proceed
- Liquidated Damages:
 - Failure to complete the Work within the time of Completion \$500/day

ARTICLE 5 - BONDS, CERTIFICATES AND STATEMENTS

 Performance Bond, Labor and Material Bond, Contractors Certificate of Satisfaction are required.

ARTICLE 6 - SPECIFICATIONS

• For planned work, advance Notification (1 week) to ALCOSAN and Construction Manager is required prior to Mobilization. (Don't notify ALCOSAN on a Friday and state that you will be mobilizing on Monday.)



MBE/WBE Participation

- Solicitation And Commitment Statement
- 10%-25% Participation of certified firms
- Utilization Report with Every Invoice

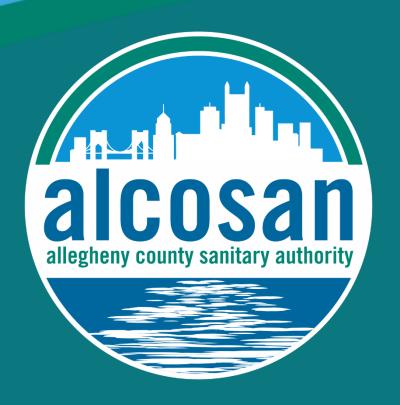


- Monthly Progress Payments
- Contractor to submit Application for Payment, CM to review
- Application for Payment due by the 6th calendar day of each month
- Payment to occur within 60 days of Application Submission
- Retainage
- Final Payment



Addendum No. 1

- List of attendees
- Pre-bid meeting minutes
- Responses to any questions
- Drawing Set
- New Articles 1 and 2



Questions/ Comments?

Steven.Bristol@alcosan.org

ATTACHMENT H QUESTIONS & RESPONSES



CONTRACT 1816 MANHOLE IMPROVEMENTS CONTRACT

QUESTIONS & RESPONSES

1. What is the Engineer's Estimate for this contract?

Response: Between \$2.5 to \$3.0 million.

2. Do you have an idea of when Addendum #1 will be sent out?

Response: It will be issued to the bidders by next Friday, August 22nd.

3. The contractor will have to be responsible for pulling the HOP permits, correct?

Response: Yes, the contractor will be responsible for submitting the HOP permits.

4. Will ALCOSAN approve the MPT plan, or will that be through PennDot?

Response: AECOM are the designers who will be performing the prep work for the contractor that is the lowest bidder for this contract, but the contractor will be responsible for obtaining the permit.

5. Where is the site visit going to start and is that location going to be identified in the addendum?

Response: The first location of the site visit has yet to be determined but will be addressed in the first addendum.

6. Is this project Penn Vest funded as part of the DBE requirements?

Response: No, this project is not Penn Vest funded.

7. Was one of the manhole rehabilitations along a railroad and are there any requirements in the specifications?

Response: There is a line item in the contract for railroad liability insurance. The manhole is

approximately 100 feet from the rail line and impact to any active trains should be minimal, so it is noted that difficult access to the manhole is noted. The manhole is also not in the right of away, it's adjacent.

8. For the minority participation percentages, will good faith apply for some of the goals if they can't be obtained?

Response: Good faith effort will not be accepted. ALCOSAN has a list of firms registered with the Authority. We did not verify the designation nor are we recommending these firms. They are merely a listing of firms registered on the ALCOSAN website.



ATTACHMENT I Pre-Bid Attendance List



CONTRACT 1816 MANHOLE IMPROVEMENTS CONTRACT

LIST OF ATTENDEES

Name	Firm	Email Address
Steven Bristol	ALCOSAN	Steven.bristol@alcosan.org
Julia Spicher	ALCOSAN	Julia.spicher@alcosan.org
Dan Sharek	ALCOSAN	Dan.sharek@alcosan.org
Caitlin Cavanagh	AECOM	Caitlin.cavanagh@aecom.com
Robert O'Connell	AECOM	Robert.oconnell@aecom.com
Dave Onorato	AECOM	David.onorato@aecom.com
Tawnya Sweeney	M. O'Herron Company	tsweeney@moherron.com
Sylvia Wolfe	Joseph B Fay Co.	swolfe@shikunusa.com
Danny Kelly	Multivista	d.kelly@multivista.com
Regan Thompson	FJ Zottola Construction	rthompson@fjzottola.com
Kyle Cacurak	Joseph B Fay Co.	Kcacurak@shikunusa.com
Tyler Freyermuth	Wilson Excavating and Utility Construction, LLC.	wilsonest@wilsonexcavating.com
Angelo Fratini	National Tank & Equipment	afratini@nterents.com
Ryan Novelli	Independent Enterprises Inc	rnovelli@iei.net.co

Questions & Responses (Continued)

D1 1. D	MT0 T Charl Counting	Must a la contra di Constituto di
Rhonda Demus	MT&T Steel Suppliers	Mttsteelsuppliers.llc@gmail.com
Kevin DeFrancesco	Folino Construction	contracts@afolino.com
John Jordan	Joseph B Fay Co.	jjordan@shikunusa.com
	Michael Facchiano Contracting,	
Russell E. Hathaway	Inc.	estimating@mafacchiano.com
Tony Sabatino	National Tank & Equipment	tsabatino@nterents.com
Heath Cope	Joseph B Fay Co.	hcope@shikunusa.com