SANITARY SEWER SMOKING REPORT SANITARY SEWER INVESTIGATIONS DONNELLSON, IOWA

2025

CITY OFFICIALS

10

Brian Moeller, Mayor

Rebecca Schau, City Clerk

Todd Herdrich, Public Works Director

CITY COUNCIL

Dan Benner

Tony Keefe

Jeremy Marshall
David Newton
Erin Wagner

Prepared by:

FRENCH-RENEKER-ASSOCIATES ENGINEERS & SURVEYORS

1501 South Main Fairfield, IA 52556 Phone: 641-472-5145 Fax: 641-472-2653

email: email@french-reneker.com website: www.french-reneker.com

SANITARY SEWER SMOKING REPORT

SANITARY SEWER INVESTIGATIONS DONNELLSON, IOWA

2025

Project No. 24-034

PEDRICK

CERTIFICATION OF ENGINEER

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Stephen I. Pedrick, PE

Signature

License Number 22586

My license renewal date is December 31, 2026

Pages or Sheets covered by this seal: ALL

PREPARED BY



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Purpose

The City of Donnellson (City) has received multiple complaints of sanitary sewer backups in the basements of private residences over the past several years. The complaints are focused on the eastern half of town, and more specifically along Maple and Oak Streets. In response to the basement backups, the City has cleaned and video inspected significant portions of the collection system over the years. The periodic cleaning of the sewers has become too frequent, and the City would like to develop a more long-term solution to address the sanitary sewer collection system issues.

The City contracted with French-Reneker-Associates to conduct a sewer smoking analysis as a next step in determining the condition of the collection system and potential sources of inflow and infiltration (I/I), which could be contributing to the basement backups. Inflow and infiltration is defined as unwanted clean water that enters the sanitary sewer collection system. Most sanitary sewer collection systems are designed for a certain amount of I/I. As collection systems age, the I/I flow can exceed the design values. Inflow and infiltration can come from a variety of sources including, but not limited to: cracked or broken sewer main, joints, and lateral connections; leaking manhole riser joints; manhole lids with open tops; and illegal direct connections to the sanitary sewer such as storm sewers, roof drains, sump pumps, and foundation drains. In many cases, I/I originates on private property and is outside the City's direct control.

The purpose of this report is to summarize the methods and findings of the sewer smoking and suggest potential next steps in the collection system improvements. Collection system facility planning, cost estimates, and funding applications are beyond the scope of this report.

Analysis

The investigations included blowing low-pressure smoke through the sanitary sewer collection system and making visual inspections of accessible manholes. The locations where smoke escaped from the system can be used to help identify defects in the collection system, which may allow surface and groundwater into the system. This method will not identify all defects. Weather conditions before and during the investigations were dry, which helped to identify defects. The field investigations and smoke tests were conducted between May 12 and May 13, 2025.

The smoking investigations were conducted on the sanitary sewer collection system east of Main Street. This included 8,930 linear feet of sanitary sewer and 35 manholes. A total of 7 defects were identified, all of which appear to be on private property. A list of the defects is included in Appendix A, and a map of the defects is in Appendix D.

Visual inspections were made on every accessible manhole of the sanitary sewer collection system that was smoked. Of 35 total manholes, 26 were able to be accessed. Visual

inspections were conducted from ground level while looking into the manhole without entering the structure; refer to Appendix C for representative photos. The inspections were conducted during dry conditions and generally outside the typical morning and evening daily peak flow timeframes for municipal wastewater systems. Some manholes were found with visible flowing water into the structure. It can be assumed that infiltration would be exacerbated during a heavy rain event and wet weather. Not all signs of infiltration and defects can be observed or identified from ground level or during dry conditions.

During the manhole inspections, the manholes were inventoried and mapped with a GNSS/GPS handheld unit. The coordinates of the manholes collected were used to create a GIS map of the sanitary sewer collection system. Information regarding smoking defects was also mapped as a part of the project. The GIS maps are included in Appendix D.

The manhole inspections involved collecting information about each manhole, including: manhole construction material, details of the manhole covers, elevation of the manhole top in relation to the surrounding ground, and signs of I/I at each manhole. The reviewed portion of the collection system is comprised of 11 brick or lined brick manholes and 14 concrete manholes. The majority of the manhole covers have open pick holes, with 19 manhole covers having non-concealed pick-holes. None of the manholes had visible internal chimney seals. Five manholes were noted to be subject to ponding, and 12 were noted to have visible signs of I/I on the manhole walls. A copy of the manhole inspection sheets and sewer smoking sequencing is included in Appendix E.

After the manhole conditions were collected and tabulated, the potential sources of I/I and their severity were assigned values. The various I/I values were totaled into an overall I/I rating for each manhole to assist with planning proposed improvements. The manhole I/I ratings are summarized in Appendix B.

Recommendations

French-Reneker-Associates conducted sanitary sewer smoking and inspection of all the manholes east of Main Street in Donnellson, Iowa, from May 12 to 13, 2025. The smoking identified seven sewer defects, while the manhole inspections classified the manhole conditions in relation to the severity of I/I. All seven of the smoking defects appeared to be on privately owned sanitary sewer laterals. All of the manholes were rated as being in fair or good condition in relation to I/I severity.

Smoking is a relatively inexpensive way of identifying sanitary sewer defects, however it will not identify all defects present. Preparing recommended improvements for the sanitary sewer collection system needs to be done with a combination of reviewing sanitary sewer videos, sanitary sewer smoking, manhole inspections, and potentially basement inspections. Based on the results of this smoking investigation, significant sources of I/I were not evident in the

sanitary sewer collection system. The lack of significant smoking defects leads us to believe there could be sump pumps or foundation drains connected to the sanitary sewer, which cannot be detected with smoking due to check valves in most sump pump installations. Another source of I/I could be cracks or leaking joints in the sanitary sewer main, which did not smoke due to being sealed off by the street pavement.

Based on the smoking and manhole inspection results, we recommend the following improvements to reduce I/I in the collection system. The improvements listed below are generally in order from least expensive and easiest to implement, to most expensive and hardest to implement.

- 1. Work with the property owners to have them fix the seven identified defects.
- 2. Conduct basement inspections to identify illegal connections to the sanitary sewer (sump pumps). Work with the property owners to disconnect sump pumps from the sanitary sewer.
- 3. Replace manhole castings with open pick holes and install new adjusting rings with chimney seals.
- 4. Line manholes with signs of I/I.
- 5. Review sewer videos and consider a sanitary sewer lining or reconstruction project.

This study and report on their own will not reduce extraneous water from entering the sanitary sewer collection system. The city needs to pursue the repairs needed, as described above. French-Reneker-Associates, Inc. is available to assist the city in this process. Our overall goal is to help the city achieve a functioning sanitary sewer system that serves your customers well, at a reasonable cost.

Appendix A
Defects Identified by Smoking

Defects Identified by Smoking

Defects found on private property:

- 1. HSE 305 Maple Broken Sewer Cap
- 2. HSE 102 Maple Broken Sewer Cap
- 3. HSE 103 Orchard Broken Sewer Cap
- 4. Dollar General Broken Sewer Cap / Smoke From Ground
- 5. HSE 416 Lyn Broken Sewer Cap
- 6. Fair Ground Broken Sewer Cleanout (at elbow)
- 7. Fair Ground Broken Sewer Cap

Appendix B List of Manhole Conditions

Manhole I&I Ratings (Located on GIS Map)

Each manhole was graded based on five potential defects including: manhole material, seepage through manhole wall, presence of chimney seals, presence of a sealed cover, and potential for surface water ponding. The defects were graded with numerical values using lower numbers for less I/I, and higher numbers meaning there is more I/I present. The manhole material values range from 0 to 1, with concrete manholes receiving a 0 and brick manholes receiving a 1. Seepage through the manhole walls was visually observed and graded from 0 to 3, with 0 meaning no seepage and 3 being the most severe amount of I/I. Manholes with visible chimney seals received a score of 0, while manholes without visible chimney seals received a score of 1. Likewise, manholes with concealed pick holes in the covers received a 0, while manholes with open pick holes in the covers received a 1. Finally, the ground surrounding the manholes was reviewed for the potential to pond water at the manhole lid, with scores ranging from 0 for no ponding to 3 for severe ponding.

After the manholes were graded, the numerical values were totaled for each manhole, resulting in a maximum possible score of 9 points for a poor manhole with severe I/I. The total score was divided in three categories as follows: poor manhole (scoring 7-9), fair manhole (scoring 3-6), and good manhole (scoring 0-2). A summary of the manhole I/I ratings appears below.

MANHOLE I/I RATING MATRIX

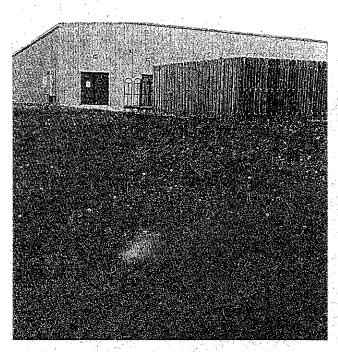
Manhole No.	Material	Wall Seepage	Chimney Seal	Sealed Cover	Subject to Ponding	I/I Rating
2-01	1	ogozyja ropiec <u>ata zakozenie z 113 km</u> ilos z zestrania zakozenia	1	1		3 - Fair
3-01	1	**************************************	1	1	and a second	3 - Fair
3-02	1	1	1	and the second decided to a lighted over different to	A Comment of the Comm	3 - Fair
3-2A	and the second s		***************************************		The state of the s	
3-2B		2	1	1	and the second s	4 – Fair
3-04	1	1	1	1		4-Fair
3-05	1	Barren Marke Longeron Control of Control	1	1		3 – Fair
3-06			1		2	3 - Fair
3-07			1			1-Good
3-07A			1			1-Good
3-09						and the second s
3-10		2	1	1	2	6 – Fair
3-11			1	1	3	5 - Fair
3-12		2	1	1	1	5 - Fair

Manhole No.	Material	Wall Seepage	Chimney Seal	Sealed Cover	Subject to Ponding	I/I Rating
3-13	1		1	1	Appropriate the second	3 - Fair
3-14	1		1	i 1		3-Fair
3-15	1	1	1	1		4-Fair
3-17	anglishinga i kasanga (m. pamah ggi kananasan palimanin a rasanga atri		ne et e representat a descripto annotat e como del ca describo en el consecue de consecue	e benembere ben benembere rete er i ren mom i mentiske er i om	The second secon	के जान भी होते. कहाँ जान के प्रत्ये के प्रत्ये का उपने हैं के स्थापन है के ही जिल्ला है है हुए का स्थापन स्थापन
3-17A		1	1		1	3 – Fair
3-18	lel-inneriweleenuuremedaantounuuru			eteleski meni morali masimori di ili masimbi dal		e en electrico de la composição de la comp
3-19		2	1	1		4-Fair
3-20	A marie and the column to be defined for a such first of the best and deceased for		1	Nederland de sentre es estrativos de londen en sentral de sentral de sentre estado		1 - Good
3-21		2	1	1		4 – Fair
3-22		de 1944 de la comentación del comentación de la	1	1		2-Good
3-23			1	1,500		2-Good
3-24	e Philippe (1944), e que este esta empere en 1194 line e del mende plus		1	1	And the control of th	2-Good
3-25	et et Mille Med et Mille et et en 1921 blankampt e pet en a aus en en la tre		Complete Com			
3-26	1	1	1	1	a i palenti. Sena izeta ngagat palasti pala minai (4 – Fair
3-27						
3-28	1		1	anamidadia na ilanga da da manamiya da		2 – Good
3-29		1	1	1		3-Fair
3-30	<u>1</u>	2	1	1	والمراقبة	5 – Fair
3-31						and the contract of the contra

Appendix C Representative Photos



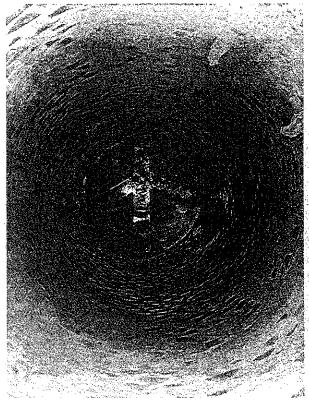
HSE 305 MAPLE - BROKEN SEWER CAP



DOLLAR GENERAL - BROKEN SEWER CAP



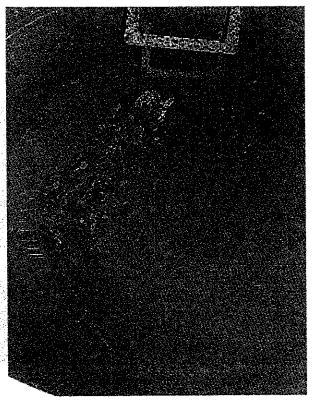
HSE 103 ORCHARD - BROKEN SEWER CAP



Manhole 3-01

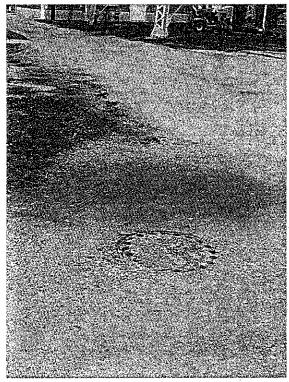


MANHOLE 3-05



MANHOLE 3-15

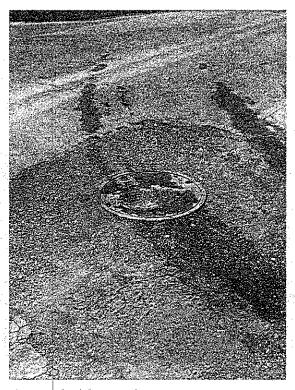
Manhole 3-24



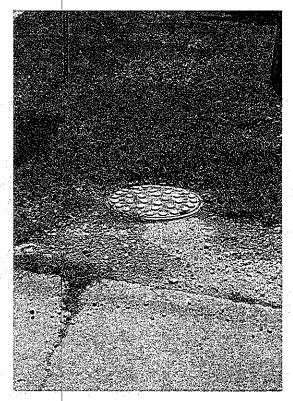
MANHOLE 3-06 SURFACE CONDITIONS



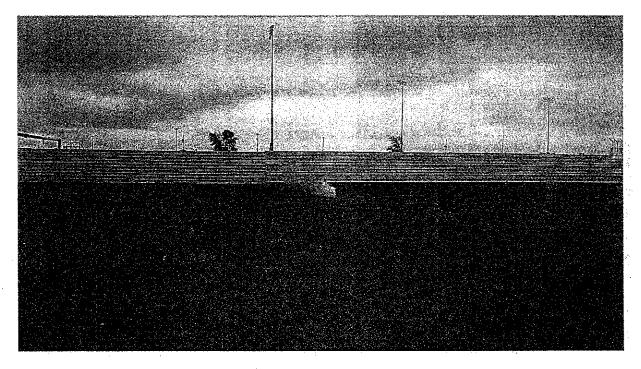
Manhole 3-11 Surface Conditions



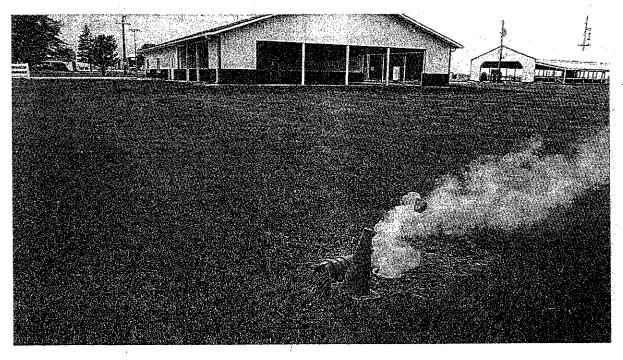
Manhole 3-10 Surface Conditions



Manhole 3-12 Surface Conditions

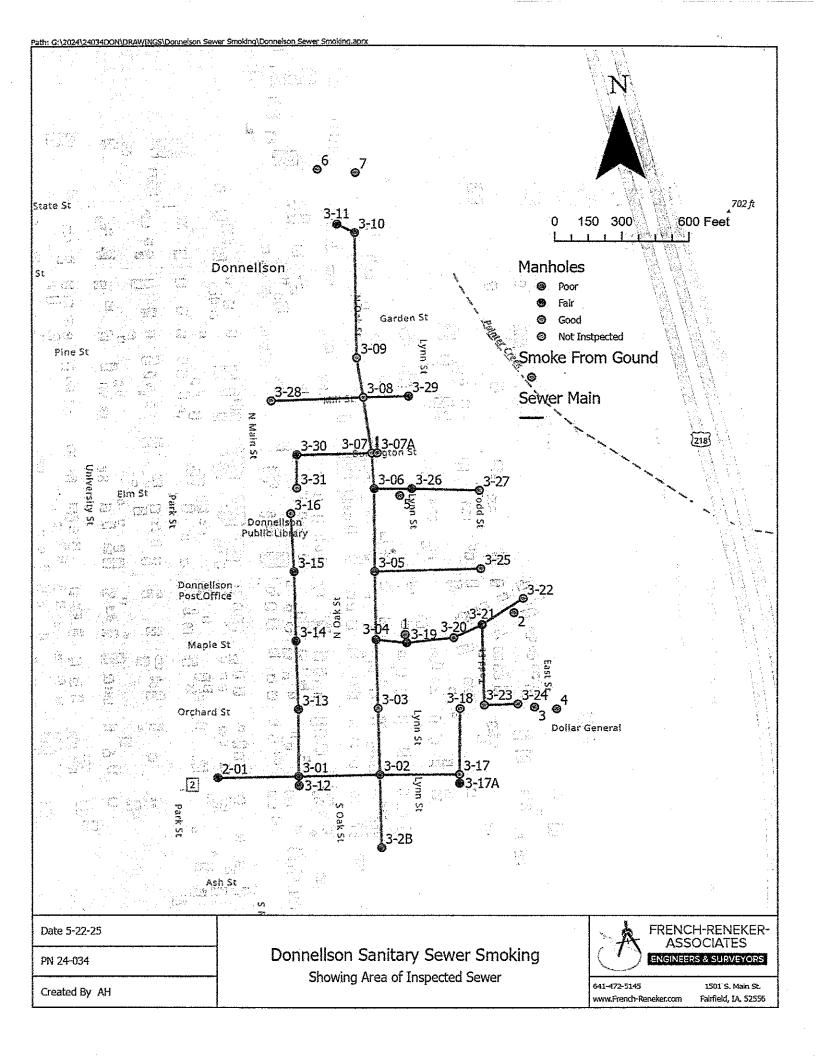


FAIRGROUNDS - BROKEN SEWER CAP



FAIRGROUNDS - BROKEN SEWER CAP

Appendix D Map



Appendix E Sewer Smoke Testing Field Data Log Sheets

Sewer Smoking and Manhole Condition Summary

Manhole	Inspected?	Denth		Onen	Subject to	I/I Rating	Set-up	Smoke to	
No.	*	(#)	Material	Cover	Ponding	0	No.	MH No.	Comments
2-01	Yes	13.1	Brick	×		3 - Fair.	-	3-01, 3-12	
3-01	Yes	14.4	Brick	X		3 - Fair			e medici el estado (el popular de
3-02	Yes	15.4	Brick			3 - Fair	4	3-04	Moisture Near Bottom
3-2A	No		ALL THE ADMINISTRATION OF THE PROPERTY OF THE						
3-2B	Yes	12.2	Precast	×		4 - Fair	7		Seeping Joint Bottom 8'
3-04	Yes	15.1	Lined Brick	X	an in the second and	4 - Fair	7	3-05, 3-19	Moisture Bottom 6'
3-05	Yes	14.4	Lined Brick	X		3 - Fair	10	3-25	
3-06	Yes	10.8			X	3 - Fair	13	3-09	дара адамалын адамалын адамалын тереректерде жереректерде жереректерде жереректерде жереректерде жереректерде
3-07	Yes	12.4	Precast			1 - Good			ала аладога положе Алагент Мейерен Мейерен Мейерен аладога, положен аладога положен алаген алаген алаген алаге
3-07A	Yes	12.1	Precast			1 - Good		ng hala ser-amon rened reconstitute de monte estados	e de la companya de l
3-09	No						pana magana magana manana m		техности тейности на навелений премератера материя представлений петерия поставлений поставлений в поставлений
3-10	Yes	0.6	Precast	X	X	6 - Fair	14	3-11	Seepage-Bottom 6'
3-11	Yes	5.9	Precast	×	X	5 - Fair		a de monde esta misma de de composições de composiç	на аксейского поставане се объемене на пределение пределение на пределение на пределение постава на пределение пост
3-12	Yes	10.2	Precast	X					Moisture Bottom 4'
3-13	Yes	10.6	Brick	×	anna an is y y principal or a delice and is deliced by a	3 - Fair	5	3-14	
3-14	Yes	10.8	Lined Brick	X		3 - Fair			American de Ajjobber anne anne agregate e america de Adrian de American de Adrian de Adrian de Adrian de Adria
3-15	Yes	10.2	Lined Brick	X		4 - Fair	9	3-16	Moisture Bottom 1'
3-17	No								·
3-17A	Yes	8.2	Precast		X	3 - Fair	3	3-17, 3-18	Moisture Bottom 4'
3-18	No							and the second s	
3-19	Yes	13.4	Precast	×		4 - Fair	***************************************		Riser Shifted
3-20	Yes	10.4	Precast			1 - Good			enement annument forde manument et diemet for install formet det demet fordet et et enement formet met provinc
3-21	Yes	9.8	Precast	X		4 - Fair	∞	3-22, 3-23	Groundwater on walls
3-22	Yes	5.5	Precast	×		2 - Good			a de la constitución de la const
3-23	Yes	8.7	Precast	×		2 - Good			er makit i mi kambil 1840 i Rel Milli Makabanana makit maranasin epikilarah masa bel mi bel mikel Milli makabit i Sili marana
3-24	Yes	7.2	Precast	×		2 - Good	6	3-23	alabaya manyar milarar abawar 1860 inta abawa 1860 abawar 1860 aba
3-25	No					-		4 A A	
3-26	Yes	12.1	Lined Brick	X	mi ferikwi pada papag papaganagana panganapate	4 - Fair	11	3-27	Moisture Bottom 4'

*Manholes not inspected were buried or inaccessible

Sewer Smoking and Manhole Condition Summary (continued)

Manhole	Inspected?			Open	Subject to	Subject to II Rating	Set-up	Set-up Smoke to	
Š	*	(ff)	Material	Cover	Ponding		No.	MH No.	Comments
3-27	No								-
3-28	Yes	6.7	Lined Brick			2 - Good			
3-29	Yes	8.8	CIP	X		3 - Fair			Water Seepage
3-30	3-30 Yes	9.3	Concrete Brick	X	Anderson Community of the State	5 - Fair	12	3-31	Seepage-Bottom 4'
3-31	No	-			And the state of t				

*Manholes not inspected were buried or inaccessible

Manhole Inspection

Date: <u>5/12/2</u>5

Crew: GC 4 AH

Manhole No). 2-01			···		_√_ Inspe	ected	
Survey Pt						Reason N	lot inspected:	
Street <u>M</u>				_		1 = Buried	3 = C. N. O.	
						2 = Bolted	4 = Other	
Location Co	de: <u>3</u>			.,,		Grade Co	ode:	
1 = Paved Stree		5 = Sidewalk				1= Even		
2 = Unpaved St							(in.)	
3 = Paved Alley		7= Curb/Gutter	•			3 = Relom _	(in.)	
4 = Unpaved Al	•	8 = Yard/field				Cubi	act to Dandin	.
9 = Other							ect to Ponding	_ ' *
					61	 	Depth	_ (IR)
	Condition	Material	<u> / </u>		Photo ID		ITS	
Cover	123		0 1 2	3	110 -0038			
Frame	1 2 3		0 1 2	3	110-0165	OPEN	PICIC HOLE	:
Chimney	123		0 1 2	3				
Corbel	1-2-3		0 1 2	3				
Wall	1 ② 3	BHCK	0 1 2	3				
Bench	1-2-3		0 1 2	3				
Invert	1 (2) 3		0 1 2	3				·
Steps	1 2 3		012	3				
1 = Bad Condit	ion		0 = No I/I					
2 = Poor Condi	tion		1 = Low F	low				
3 = Good Cond	lition		2 = Medi	um F	low			
			3 = High 1	Flow				
Evide	nce of Surch	narge	Surchar	ge l	Depth	(i	in)	
		13.13 ¹ (x	13.0	2	×) 12.62	· Όρ		

Manhole Inspection

Date: <u>5/12/25</u>

Crew: GC & AH

Manhole No). <u>3-01</u>		· · · · · · · · ·				<u></u>	
Survey Pt	•						Reason Not Inspected:	
Street MAI							1 = Buried 3 = C. N. O.	
					_	•	2 = Bolted 4 = Other	
Location Co	de: <u>3</u>			-			Grade Code:	
1 = Paved Stree	et .	5 = Sidewalk					1= Even	
2 = Unpaved St							2 = Above (in.)	
3 = Paved Alley		7= Curb/Gutte	r				3 = Below (in.)	
4 = Unpaved Al	ley	8 = Yard/field						
9 = Other							Subject to Ponding	
							Ponding Depth (in)	
	Condition	Material		1/1		Photo ID	Comments	
Cover	1 2 3		0 1	. 2	3	110-0039		
Frame	1 ② 3		0 1	. 2	3	110-0166	Open Pick hole	
Chimney	1 ② 3		0 1		3			
Corbel	1-2.3		0 1	. 2	3			
Wall	1 ② 3	BRICK	0 1	2	3			
Bench	1-2-3		0 1	. 2	3			
Invert								
Steps	1 2 3		0 1	. 2	3		\	
1 = Bad Conditi	ion		0 = Nc) /I				
2 = Poor Condi	tion		1 = L	ow F	low			
3 = Good Cond	ition		2 = M	ledi	um F	low		
			3 = H	igh I	Flow			
Evider	nce of Surch	arge	Surc	har	ge	Depth	(in)	
				" ci				
			18	3.86 X	Still (Methods)			
			-	X 1,38				
			/ 1	1,381	1	/		
				أحشو	۳.	4.35 × 10" CL	4.1/	
	1011	CLAY X14.4	O,			4.35 × 10" CL	A Y	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		- 1					
!		1		14.28 X	١			
ACHIEV PROPERTY.				X				
				10.4				
			į	iO.	Crid A	•		

Date:	5/2/25
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Manhole Inspection
Crew: GC 4 AH

Manhole No	1. 3-02				∠ Inspected			
Survey Pt					Reason Not Inspected:			
Street					1 = Buried 3 = C. N. O.			
Manual State Committee					2 = Bolted 4 = Other			
Location Co	de: <u>3</u>				Grade Code: _ L			
1 = Paved Stree		5 = Sidewalk			1= Even			
2 = Unpaved Sti					2 = Above (in.) 3 = Below (in.)			
3 = Paved Alley		7= Curb/Gutter	•		3 = Below (in.)			
4 = Unpaved Ali	•	8 = Yard/field			Subject to Banding			
9 = Other					Subject to Ponding			
	- 11.1	5 4 ·	· /1	5tt-15	Ponding Depth (in)			
	Condition	Material	1/1	Photo ID	Comments			
Cover	1 ② 3		0 1 2 3					
Frame	1 (2) 3			110-0169	Concealed Pick holes			
Chimney	1 (2) 3		0 1 2 3	110-0170	Concealed Pick holes No apparent I/I			
Corbel	123		0123					
Wall	1 (2) 3	BRICK	0123		MOKTURE NEAR BOTTOM			
Bench	123		0 1 2 3					
Invert ·	1 ② 3		0 1 2 3					
Steps	① 2 3		0123					
1 = Bad Conditi	on		0 = No I/I					
2 = Poor Condi	2 = Poor Condition 1 = Low Flow							
3 = Good Cond	ition		2 = Medium F	low	\cdot			
			3 = High Flow					
Evider	nce of Surch	arge	Surcharge [Depth	(in)			
	and the second s	a separa descriptional description of the separate separa	14.621 11.99	Z(' x) x 10.86	· · · · · · · · · · · · · · · · · · ·			

Manhole Inspection
Crew: GC & AH Date: <u>5/12/25</u> Project No. <u>24-034</u>

Manhole No	o. <u>3-2B</u>				<u>×</u> Inspected		
Survey Pt	•				Reason Not Ir	rspected:	1
Street 5.	OAK ST				1 = Buried 3 =	C. N. O.	
				•	2 = Bolted 4 =	Other	
						-	
Location Co	de: 8	***		***************************************	Grade Code:	2_	
1 = Paved Stree		5 = Sidewalk			1= Even		
2 = Unpaved St	reet	6 = Ditch			$2 = Above _ $		1
3 = Paved Alley	,	7= Curb/Gutte	r		3 = Below	(in.)	
4 = Unpaved Al	•						ł
9 = Other					Subject to	-	
					Ponding Dept	.h (in)	
	Condition	Material	1/1	Photo ID	Comments		
Cover	1 2 3		0 1 2 3	110-0044			
Frame	1 2 (3)		0 1 2 3	110-0171	Doen Pick	- HOLBS UHDER FRAME .	
Chimney	1 2 (3)		0 1 2 3		Smoke From .	under Frame ·	
Corbel	1_2-3		0 1 2 3	110-0172	I/I at Jo	unts	
Wall	1 2 (3)	PRECAST				JOINT 8' FROM	
Bench	1-2-3		0 1 2 3			*.	
Invert	1 2 3		0 1 2 3				
Steps	1 2 (3)		0123				
1 = Bad Condit	lon		0 = No I/I				
2 = Poor Condi	tion		1 = Low Flow		•		
3 = Good Cond	ition		2 = Medium F	low	•		
			3 = High Flow				
Evider	nce of Surch	arge	Surcharge (Depth	(in)		
		<u> </u>	1101/cray			,	
A							
1			1 12.22				
			1 12.42	\		4	
	٠		•	· ~/			
		10.4	1 15	12.19 10" CI	,a\/		
	ſ	O" CLAY 12.18	11 6	~/====			·
ē.	الـ	0 000	, ,				
			12.20				
			- The state of the				
			1 - n - h				
1			10" CLAY				1

Date	:	5/12/25

Manhole Inspection
Crew: <u>GC & AH</u>

Manhole No). <u>3-04</u>				<u></u> ✓ Inspected
Survey Pt					Reason Not Inspected:
Street					1 = Buried 3 = C. N. O.
					2 = Bolted 4 = Other
-					Curdo Codo.
Location Co		w er ttt.			Grade Code: 1= Even
1 = Paved Stree		5 = Sidewalk			2 = Above(in.)
2 = Unpaved St 3 = Paved Alley	ieet (7= Curb/Gutte	r		3 = Below (in.)
4 = Unpaved Al		8 = Yard/field	,		
9 = Other					Subject to Ponding
					Ponding Depth (in)
	Condition	Material	1/1	Photo ID	Comments
Cover	1 ② 3			10-0052	
Frame	1 2 3		0123		Upen-Pict Hotes
Chimney	1 2 (3)		0 1 2 3		
Corbel	123		0 1 2 3		
Wall	1 ② 3	LINED	0 1 2 3		MOISTURE BOTTOM 6' I
Bench	1 2 3		0 1 2 3		Open Pick Holes
Invert.	1(2) 3		0 1 2 3		1 8
Steps	(Î) 2 3		0 1 2 3		
1 = Bad Condit	ion		0 = No I/I		
2 = Poor Cond	ition		1 = Low Flow	<i>(</i>	·
3 = Good Cond	lition		2 = Medium	Flow	
			3 = High Flov	v	
Evide	nce of Surch	narge	Surcharge	Depth	(in)
			110" CLAY		
			15.04		
				15.00'	CLAY
ESSE.					
			15.13	Agramatyumathiya in manan	

Manhole Inspection
Crew: GC & AH

Manhole No), 3 -ØS					∠ Inspected
Survey Pt	New					Reason Not Inspected:
Street	CHESTNUT					1 = Buried 3 = C. N. O.
						2 = Bolted 4 = Other
Location Co	de: _ {					Grade Code:(
1 = Payed Stree		5 = Sidewalk				1= Even
2 = Unpaved St						2 = Above (in.)
3 = Paved Alley		7= Curb/Gutte	r			3 = Below (in.)
4 = Unpaved Al	ley	8 = Yard/field				
9 = Other						Subject to Ponding
	·					Ponding Depth (in)
	Condition	Material	1/1	•	Photo ID	Comments
Cover	① 2 3		0 1 2	3	110-0065	
Frame	1 (2)3		0 1 2	3	HO-CHANGE	DAPA PICK TOOLS
Chimney	1 2 (3)		012	3	110-0194	Open Pick holes
Corbel	1.2 3		0 1 2			,
Wall	1 2 (3)	LINED	0 1 2	3		
Bench	1-2-3		012	3		
Invert	1 ② 3		012	3		
Steps	<u>(1</u>) 2 3		0 1 2	3		
1 = Bad Conditi	on		0 = No I/I			
2 = Poor Condi	tion		1 = Low Fl	ow	•	
3 = Good Cond	ition		2 = Mediu	m F	low	
			3 = High F	low		
Evider	nce of Surch	arge	Surchar	ge I	Depth	(in)
			10' CLA	1		
1				269		
1		_	×	╄~		
			14.39	;	11,65 4	"cco-/
			,	,	- 1	The state of the s
		(. 1	133	94 × ×	ra A. V
		\	, 1		17	· ·
				1.		
			X 14.47		-	
			A.	1		
			1) 10' C	ayl		

Manhole Inspection
Crew: <u>GC ← AH</u>

Manhole No). <u> </u>					∠ Inspected
Survey Pt	:					Reason Not Inspected:
Street			· · · · · · · · · · · · · · · · · · ·			1 = Buried 3 = C. N. O.
						2 = Bolted 4 = Other
Location Co	de:	·		-		Grade Code:(
1 = Paved Stree		5 = Sidewalk				1= Even
2 = Unpaved St	reet	6 = Ditch			,	2 = Above (in.)
3 = Paved Alley		7= Curb/Gutter	•			3 = Below (in.)
4 = Unpaved Al	lley	8 = Yard/field				V - 1 - 1
9 = Other		<u></u>				X Subject to Ponding
						Ponding Depth 2 (in)
	Condition	Material	1/1		Photo ID	Comments
Cover	1 (2) 3		0 1	2 3	14-19198	Open Pick Holes
Frame	1 2 3		01	2 3		
Chimney	123		0 1	2 3		
Corbel	123		0 1	2 3 [.]		
Wall	1 (2) 3		0 1	2 3		
Bench	123		0 1	2 3		
Invert	1 ② 3		0 1	2 3		
Steps	1)2 3		0 1	2 3		
1 = Bad Condit	ion		0 = No I,	/I		
2 = Poor Condi	ition		1 = Low	r Flow		
3 = Good Cond	iition		2 = Me	diùm f	low	
			3 = High	n Flow	,	
Evide	nce of Surch	narge			Depth	(in)
^		,	10" 0			
	10, 6	(AY	7	34	10" E	LAN
				<u> </u>	No. of the last of	

Manhole Inspection
Crew: GC & AH

Manhole No	0. 3-07			···			∠ Inspected
Survey Pt	•						Reason Not Inspected:
Street							1 = Buried 3 = C. N. O.
					•		2 = Bolted 4 = Other
Location Co	de: 1						Grade Code:\
1 = Paved Stree		5 = Sidewalk					1= Éven
2 = Unpaved St							2 = Above (in.)
3 = Paved Alley		7= Curb/Gutte	•				3 = Below (in.)
4 = Unpaved Al							
9 = Other							Subject to Ponding
						<u>,</u>	Ponding Depth (in)
	Condition	Material		<u>/I</u>		Photo ID	Comments
Cover	123		0 1	2	3	110-0199	Concealed Pick Holes
Frame	1 2 (3)		0 1	2	3		
Chimney	1 2 (3)		0 1	2	3		
Corbel	1 2 3		0 1	2	3		
Wall	1 2 3		0 1	2	3		
Bench	1,23		0 1	2	3		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Invert	1 2 8)		0 1	2	3		
Steps	123		0 1	2	3		
1 = Bad Conditi	ion		0 = No	I/I			
2 = Poor Condi	tion		1 = Lo	w Flo	w		
3 = Good Cond	ition		2 = M	ediur	n F	low	
			3 = Hi	gh Fl	ow		
Evider	nce of Surch	arge	Surc	narg	e I	Depth	(in)
		(x)0.0	2	X 45		× 12.45	

Manhole Inspection
Crew: GC & AH

М	anhole No	3-07A			-	X Inspected		
<u></u>	rvey Pt				F	Reason Not Ir	nspected:	
Sti	reet 18u	eciuato A)			. = Buried 3 =		Ì
					. 2	! = Bolted 4 =	Other	
Lo	cation Co	de:)			(Grade Code:	C Section 1	
1	Paved Stree		5 = Sidewalk	°4	1	.= Even	,	. [
2		reet	6 = Ditch	, , , , , , , , , , , , , , , , , , , ,	2	2 = Above	(in.)	
	Paved Alley		7= Curb/Gutter		30" ecq4 /	= Below	(in.)	
4 =	Unpaved Al	ley	8 = Yard/field					
9 =	Other					Subject t	-	
					11.19	Ponding Dep	th (ii	n)
		Condition	Material	1/1		Comments_		
C	ver	1 2 (3)		0 1 2 3	JIQ-0068			
Fr	ame	1 2 🕄		0 1/2 8×	110-0200	Contenter	Pick H	ales
CI	imney	1 2 ③		0/1 2 3	110-0201	Me ajopares	+ I/I	
C	prbel	1/2 3	1	vnQ 1 /2 3		"Management of the Contract of		
M	all	1 2 (3)	PRECAST	0 1 2 3		WATER NO	PINTERIOR	OF MH.
В	ench	1_2-3	(ui)	24751 ارول	urcharge D	rge S	ce of Surcha	Z ENIGGU
Tr.	vert	1 2 3		0 1 2 3	wol4 dgiH =	8		
Si	eps	1 ②3			wolf wo 1 =		noi	F 600d Condi
1	Bad Condit		<u> </u>	0 = No I/I	wold wol =	L .	uo	Z = Poor Conditi
1	Poor Condi			d . Law Claus	I/I oN =		uc	1 = Bad Condition
1	Good Cond			2 = Medium Fl	OIS3		(1)5 3	sdəis
				3 = High Flow	E Z T. O		₹ 🕏 ₹	Irvert
	Evide	nce of Surch	ıarge	Surcharge D	epth _{z_I_0}	(in)	E 7-T	Bench
	Methost	mores 19	3910333	: 🔻	εΖτο	-124031/J	153	Wall
	A	49		12.06	8710		E 2 1	Corbel
			/	11170-071	£ 2 1 0		1 (3 3	Оhimney
		2010H X	and of the second	0170-011	5 Z I O		E Z) T	Hrame
		to _{tt}	\X	1 10/1	8 7 10		E Ø I	Cover
	(Photo ₄ ID	/ 1/1	Material	Condition	
	r (u		qaQ <u>anibn</u> g					
П		gribno9 o	$\frac{\chi}{}$ Subject t	•				9 = Other
		(nun)				blaff\braY = 8	lleγ	A b9vsqnU = A
4		(.ni) (.ni)	9vodA = 5 wol98 = 8			7= Curb/⊑utter		SE Bayed Alle)
		1 -11	I= Even			6 = Ditch		2 bevsqnU = S
		- 1	Grade Code:			S = Sidewalk		1 = Paved Stree
ľ			. 9				j :əpo	Location Co
	<u> </u>	= Other	p beiled 4					

Manhole Inspection
Crew: GC < AH

Manhole N	0. 3-10				<u>X</u> Inspected
Survey Pt					Reason Not Inspected:
Street	N. 04K	5			1 = Buried 3 = C. N. O.
					2 = Bolted 4 = Other
Location Co	de: <u> l </u>				Grade Code:
1 = Paved Stree	et	5 = Sidewalk			1= Even
2 = Unpaved St	treet	6 = Ditch			2 = Above (in.)
3≔ Paved Alley		7= Curb/Gutte	r		3 = Below(in.)
4 = Unpaved A	lley	8 = Yard/field			
9 = Other		·····			X Subject to Ponding
					Ponding Depth 2_(in)
	Condition	Material	1/1	Photo ID	Comments
Cover	1 ② 3		0 1 2 3	10-0071	
Frame	1 🗷 3		0 1 2 3	110-0210	Open Pirk Holes
Chimney	1 (2 3		0 1 2 3	110-0211	
Corbel	1 2 3		0123		
Wall	1 2 ③	PRECAST	0 1 2 3	X	SERPAGE 6' FROM BOTTOM
Bench	1-2-3		0 1 2 3		
Invert	1 2 3		0123		
Steps	1)2 3		0 1 2 3		
1 = Bad Conditi	on		0 = No I/I		
2 = Poor Condit	tion		1 = Low Flow		
3 = Good Condi	ition		2 = Medium F	low	
			3 = High Flow		
<u> </u>	nce of Surch	arge	Surcharge I	Depth 2.6	[∤] (in)
	10	" CM	IS IS	× × × × × × × × × × × × × × × × × × ×	

Manhole Inspection
Crew: GC & AH

Manhole No). <u>3-((</u>							∠ Inspected
Survey Pt								Reason Not Inspected:
Street N.								1 = Buried 3 = C. N. O.
***************************************								2 = Bolted 4 = Other
Location Co	de:							Grade Code:
1 = Paved Stree		5 = Sidewalk						1= Even
2 = Unpaved St			•					2 = Above (in.)
3 = Paved Alley		7= Curb/Gutter						3 = Below (in.)
4 = Unpaved Al	ley	8 = Yard/field						vet i be
9 = Other								X Subject to Ponding
								Ponding Depth 2 (in)
	Condition	Material		1/1			Photo ID	Comments
Cover	1 2 3		0 :	1 3	2 :	3	110-0212	
Frame	1 2 3		0	1, 2	2	3		
Chimney	123		0	1 :	2	3		
Corbel	1 2 3		0	1 2	2	3		
Wall	1 2 3	PRECAST	0	1 :	2	3		
Bench	1 2 3		0	1 :	2	3		
Invert	1 2 3		0	1	2	3		
Steps	1 2 3		0	1	2	3		
1 = Bad Condit	ion		0 = 1	lo I/	/[
2 = Poor Cond	ition		1 = l	.ow	Flo	W		
3 = Good Cond	lition		2 = 1	Viec	liur	n F	low	
İ			3 = 1	Higi	ı Flo	wc		
Evide	nce of Surch	narge	Sur	cha	arg	e	Depth	(in)
		ko,	ount 5.		· '	1 2 2	91. OLAY	

Manhole Inspection
Crew: GC & AH

Manhole No	3-12	<u> </u>			<u></u> ✓ Inspected
Survey Pt	•				Reason Not Inspected:
Street/					1 = Buried 3 = C. N. O.
			· · · · · · · · · · · · · · · · · · ·		2 = Bolted 4 = Other
Location Co	de: රි				Grade Code: <u>L</u>
1 = Paved Stree		5 = Sidewalk			1= Even
2 = Unpaved St		6 = Ditch			2 = Above (in.)
3 = Paved Alley		7= Curb/Gutte	-		3 = Below (in.)
4 = Unpaved Al	ley	8 = Yard/field			V Culturate Danding
9 = Other					X Subject to Ponding
				-	Ponding Depth <u>(</u> (in)
	Condition	Material	<u> </u>	Photo ID	Comments
Cover	1 2 (3)		0 1 2 3	110-8840	
Frame	1 (2) 3		0123	गठ छण्ना	
Chimney	1 2 (3)		0123	## 300 mg	
Corbel	1 2 3		0 1 2 3	110-0043	
Wall	1 2 ③	PRECAST	0 1 2 3		MOISTURE BOTTOM 4'
Bench	1-2-3		0123	110-0167	OPEN PICK hole
Invert	1 ② 3		0123	110-0168	NO MPREACE 171
Steps	1 2 3		0123		
1 = Bad Condit	ion		0 = No I/I		
2 = Poor Condi	tion		1 = Low Flow		ri e
3 = Good Cond	lition		2 = Medium I	low	
			3 = High Flow	1	
Evide	nce of Surch	narge	Surcharge	Depth	(in)
			, 10" (cer,		
1			10.221		
1 1			10.22 V		
			` }		
				10.19	and an arrange and a second and a
		(1	>) 10" c	
		(1		July 2
			1		
			10.19	الله المساعدة والمساعدة	
			16" CLAY	1	•

Manhole Inspection
Crew: GC & AH Date: <u>5/12/25</u> Project No. <u>24-034</u>

Manhole No). <u>3- 3</u>		<u> </u>		1	<u></u> ∕ Insp	ected	
Survey Pt	•						Not Inspected:	
Street			•				3 = C. N. O.	_
				•			4 = Other	
Location Co	de:			***********	(3):	Grade C	ode:\	
1 = Paved Stree	et .	5 = Sidewalk			•	1= Even		-
2 = Unpaved St							(in.)	į
3 = Paved Alley		7= Curb/Gutter				3 = Below	(in.)	[
4 = Unpaved Al	•	8 = Yard/field					- 	
9 = Other							ject to Ponding	
	<u>,</u>					Ponding	Depth (in)	
	Condition	Material	1/1		Photo ID	Comme	nts	
Cover	1 ② 3		0 1 2	3	110-0048			
Frame	1 ② 3		0 1 2	3	110-0178	Open 1	Pick holes	
Chimney	1 2 3		0 1 2	3		V		
Corbel	1-2-3		0 1 2	3				
Wall	1 ② 3	BRICK- LINED?	0 1 2	3				
Bench	23		0 1 2	3	·			
invert	1 (2) 3		0 1 2	3			·	
Steps	<u></u> 2 3		0 1 2	3			·	
1 = Bad Conditi	on		0 = No I/I					
2 = Poor Condi	tion		1 = Low Flo	wc				
3 = Good Cond	ition		2 = Mediu	n F	low			
			3 = High Fi	ow		•		
Evider	nce of Surch	arge	Surcharg	je [Depth	(in)	
		**************************************	10" CLAY	Ī				
				NATION AND ADDRESS OF THE PARTY AND ADDRESS OF				
1			1 10.54	_				
			10.54	ť				
			1 ,	,	1			
			1 1	1)			
		/	Į.	,				
			1 10.44	i 				
				- Company				
				and the same				
i			inter.	1				

Manhole Inspection
Crew: GC \$ AH

Manhole No	D. <u>3-14</u>				× Inspected
Survey Pt.	•				Reason Not Inspected:
Street CA					1 = Buried 3 = C. N. O.
		- '	*********		2 = Bolted 4 = Other
Location Co	de: [·			Grade Code:
1 = Paved Stree		5 = Sidewalk			1= Even
2 = Unpaved St					2 = Above (in.)
3 = Paved Alley		7= Curb/Gutte	r		3 = Below (in.)
4 = Unpaved Al	-	8 = Yard/field			
9 = Other	·				Subject to Ponding
		•			Ponding Depth (in)
	Condition	Material	1/1	Photo ID	Comments
Cover	1 ② 3			110-0049	
Frame	1 (2) 3		0 1 2 3	110-0184	Open Pick holes
Chimney	1 ② 3			110-0175	
Corbel	1-2-3		0123		
Wall	1 2 ③	LINED BRICK	0123		
Bench	123		0123		
Invert	1 ② 3		0 1 2 3		
Steps	(1) 2 3		0123		
1 = Bad Conditi	on		0 = No I/I		
2 = Poor Condit	tion		1 = Low Flov	V	
3 = Good Condi	ition	•	2 = Medium	Flow	
			3 = High Flo		
<u>×</u> Eviden	ice of Surch	arge	Surcharge	Depth	<u>(2</u> (in)
			110" CLAY		
			10,79		
			10,79		
			1	\	
			1)	
			1	8,95'	
!			10.84		
				6 CLAY	
			10" CLA		

Manhole Inspection Crew: <u>GC & AH</u> Date: <u>5/12/25</u> Project No. <u>24-034</u>

							Action to the second	
Manhole No). <u>3-15</u>					Inspe	cted	
Survey Pt						Reason N	ot Inspected:	
Street C						1 = Buried	3 = C. N. O.	
						2 = Bolted	4 = Other	
Location Co	de: /					Grade Co	de:\	
1 = Paved Stree		5 = Sidewalk				1= Even		į
2 = Unpaved St		6 = Ditch				2 = Above_	(in.)	
3 = Paved Alley		7= Curb/Gutter				3 = Below _	(in.)	
4 = Unpaved Al	ley	8 = Yard/field					e e e e e e e e e e e e e e e e e e e	
9 = Other							ect to Ponding	
							Depth (ir	ן
	Condition	Material	1/1		Photo ID	Commen	ts	
Cover	1 ② 3		0 1 2	3	110-0650			
Frame	1 (2) 3		0.12	3	110-0186	Open	Pick holes	
Chimney	1 2 ③		0,1 2	3	110-0187	*	*	
Corbel	1-2-3		0 1 2	3				
Wall	1 2 3	LINED BRICK	0 1 2	3	K	MOISTUR	Е ВОПОМ 12"	· <u> </u>
Bench	1-2-3		0 1 2	3				
Invert	1 ② 3		0 1 2	3				
Steps	1 2 3		012	3		<u>, </u>		
1 = Bad Condit	ion		0 = No I/I					
2 = Poor Condi	tion		1 = Low F	low				
3 = Good Cond	ition		2 = Mediu	ım F	Flow			
			3 = High F	low	1			
X Evide	nce of Surch	narge	Surchar	ge	Depth	<u>ź</u> (i	n)	
			10" CLAY	į				
				200		<i></i>	the same and the same	
1 1			V	-			The same of the sa	
			10.15	,				
			1	į	1			
			, ,)				
		\	· •	(}	/			
1			15.01	١,				
		·	1	-	•			
			Polyment of the Control of the Contr					
			101, 11	ΔV				

Manhole Inspection
Crew: GC & AH

Manhole No	D. 3-17A				<u></u> ✓ Inspe	cted
Survey Pt	4					ot Inspected:
Street MADISON						3 = C. N. O.
					2 = Bolted	4 = Other
						•
Location Co	de: _				Grade Cod	de:\
1 = Paved Stree	et	5 = Sidewalk			1= Even	
2 = Unpaved St		6 = Ditch			2 = Above	(in.)
3 = Paved Alley		7= Curb/Gutte	r		3 = Below	(in.)
4 = Unpaved Al	ley	8 = Yard/field				
9 = Other					<u> </u>	ct to Ponding
					Ponding D	epth <u>l</u> (in)
	Condition	Material	1/1	Photo ID	Comment	S
Cover	1 2 ③		0 1 2 3	10000		
Frame	1 2 (3)		0 1 2 3	110-0046		
Chimney	1 2 3		0 1 2 3	110-0174	Cencea	led pick hole
Corbel	1-2-3		0 1 2 3	100-0175		
Wall	1 2 ③	PRECAST	0 1 2 3	K	Moistur	E BOTTOM 41
Bench	1-2 3		0123			
Invert	1 ② 3		0123	;		
Steps	(Î)2 3		0 1 2 3	,		
1 = Bad Conditi	on		0 = No I/I			
2 = Poor Condit	ion		1 = Low Flor	v		
3 = Good Condi	tion		2 = Medium	Flow		
			3 = High Flo	w		
X Eviden	ice of Surch	arge	Surcharge	Depth/	<u>′2</u> (in)
			no" clay			
.			8.28			
		_	1870			
			1			
	_			7.61	_	
		8.26' x	· *	10" CLA	W	
		10" CLRY \(\sigma\) -	. (1)	~		
			, , , , , , , , , , , , , , , , , , ,			
<u>*</u>			8.12			
			10' CLAY			
			1	ì		

Date: <u>s/12/2</u> s Crew: <u>GC ^d AH</u> Project No. <u>z</u>
--

Manhole No). 3-19			2 102 102	<u> </u>	ected		
Survey Pt					Reason N	lot Inspected:		
Street					1 = Buried	3 = C. N. O.		
					2 = Bolted	4 = Other		
Location Co	de: <u>8</u>		,	-	Grade Co	ode:		
1 = Paved Stree	rt	5 = Sidewalk			1= Even			
2 = Unpaved St					2 = Above	(in.)		
3 = Paved Alley		7= Curb/Gutter	7		3 = Below _	(in.)		
4 = Unpaved Al	•	§ = Yard/field			o 1 ·	L. D. die		
9 = Other						ect to Ponding		
					,	Depth (in)		
	Condition	Material	1/1	Photo ID	Commer	nts		
Cover	1 2 3		0 1 2 3	110-0055				
Frame	1 2 3		0123	40-0182	Open	fick hotes		
Chimney	123		0 1 2 3	40-0163	<i>I</i>			
Corbel	1_2-3		0123	40-0190	Open	Pict holes		
Wall	1 2 3	PRECAST	0 1 2 3	K	BOTTOM	RISER WET		
Bench	1-2-3		0 1 2 3	110-0191				
Invert	1 (2) 3			110-0192				
Steps	1)23		0 1 2 3	110-0193	Riser	Shifted		
1 = Bad Condit	ion		0 = No !/I					
2 = Poor Condi	tion		1 = Low Flow					
3 = Good Cond	ition		2 = Medium Flow					
			3 = High Flow					
Evider	nce of Surch	arge	Surcharge	Depth	(in) /		
Evidence of Surcharge Surcharge Depth (in) 13.35' 13.35' 10" cca9								

Manhole Inspection
Crew: GC & AH

Manhole No	o. 3~ZO				<u>×</u> Inspected			
Survey Pt	4				Reason Not Inspected:			
Street					1 = Buried 3 = C. N. O.			
					2 = Bolted 4 = Other			
.*								
Location Co	de: I		-		Grade Code: _ (
1 = Paved Stree		5 = Sidewalk			1= Even			
2 = Unpaved St					2 = Above (in.)			
3 = Paved Alley	,	7= Curb/Gutte	Γ		3 = Below (in.)			
4 = Unpaved Al	ley	8 = Yard/field						
9 = Other					Subject to Ponding			
					Ponding Depth (in)			
	Condition	Material	1/1	Photo ID				
Cover	1 2 (3)		0 1 2 3	110-0056				
Frame	1 2 (3)		0123	F	Open Pick holes			
Chimney	1 2 (3)		0 1 2 3	l l				
Corbel	1-2-3		0 1 2 3		·			
Wall	1 2 (3)	PRECAST	0 1 2 3					
Bench	1 2 3		0 1 2 3	,,,,,,				
Invert	1 ② 3		0123					
Steps	① 2 3		0123					
1 = Bad Conditi	ion		0 = No I/I					
2 = Poor Condi	tion		1 = Low Flow	v!	•			
3 = Good Cond	ition		2 = Medium	Flow				
<u></u>			3 = High Flov	N				
Evider	nce of Surch	arge	Surcharge	Depth	(in)			
Ŷ	and the second s							
	10.34' X 10.45.							

Manhole Inspection
Crew: GC 4 AH

Manhole No	3-21		<u></u>		<u> </u>	ected	
Survey Pt					Reason N	lot inspected:	:
Street					1 = Buried	3 = C. N. O.	
					2 = Bolted	4 = Other	
Location Co	de: \				Grade Co	ode: \	
1 = Paved Stree		5 = Sidewalk			1= Even		
2 = Unpaved Sti					2 = Above	(in.)	
3 = Paved Alley		7= Curb/Gutter	•		3 = Below _	(in.)	
4 = Unpaved All	•	8 = Yard/field					
9 = Other						ect to Pondin	···
				· · ·	v =	Depth	(in)
	Condition	Material	<u> </u> /	Photo ID	Commer	its	
Cover	1 ② 3		0 1 2 3	110-0059			
Frame	1 (2) 3		0 1 2 3	119-0179	Open	Pick hold	3
Chimney	1 🗘 3			110-0180			·
Corbel	1 2 3		0 1 2 3	4	4		
Wali	1 2 (3)	PRE CAST	0 1 2 3	<u> </u>	GROW	JOWATER	on WALL!
Bench	1/2 3		0 1 2 3	32"			
Invert	1 ② 3		0 1 2 3				
Steps	1 🕉 3	. :	0123				
1 = Bad Conditi	on		0 = No I/I	•			
2 = Poor Condi	tion		1 = Low Flow	I			
3 = Good Cond	ition		2 = Medium	Flow			
			3 = High Flow	N			ļ
Evider	nce of Surch	arge	Surcharge	Depth	(in)	
	10	CCAY X 8.	68' 8.56' / CLAY	X 8.44	-	 .	

Date: 5/12/25 Crew: GC & AH Project No. 24-03-1 $\underline{\hspace{0.1cm} \hspace{0.1cm} \hspace{0.1cm} \hspace{0.1cm} \hspace{0.1cm} \hspace{0.1cm} \hspace{0.1cm} \hspace{0.1cm}}$ Inspected Manhole No. 3-27 Reason Not Inspected: _____ Survey Pt. Street MAPLE 1 = Buried 3 = C, N, O.2 = Bolted 4 = Other_____ Grade Code: __/__ Location Code: 1 = Paved Street 1= Even 5 = Sidewalk2 = Above_____(in.) 2 = Unpaved Street 6 = Ditch 7= Curb/Gutter 3 = Below _____ (in.) 3 = Paved Alley 8 = Yard/field 4 = Unpaved Alley ___ Subject to Ponding 9 = Other ____ Ponding Depth _____ (in) 1/1 Photo ID | Comments Condition Material 1 ② 3 0 1 2 3 10-0060 Cover Open Pick holes Frame 1 2 (3) 0 1 2 3 Chimney 1 2 (3) 0 1 2 3 Corbel 1_2-3 0 1 2 3 Wall PRECAST 1 2 (3) 0 1 2 3 Bench 1 2-3 0 1 2 3 Invert 0 1 2 3 1 (2) 3 0 1 2 3 Steps 1 = Bad Condition 0 = No I/I1 = Low Flow 2 = Poor Condition 3 = Good Condition 2 = Medium Flow 3 = High Flow Surcharge Depth (in) Evidence of Surcharge x 5,501

Date: 5/12/25 Crew: GC 8 AH Project No. 24-034 Manhole No. <u>3-23</u> \times Inspected Survey Pt. Reason Not Inspected: _____ Street GROMACO 1 = Buried 3 = C. N. O.2 = Bolted 4 = Other_____ Grade Code: \ Location Code: 1 = Paved Street 5 = Sidewalk 1= Even 2 = Above _____ (in.) 2 = Unpaved Street 6 = Ditch3 = Below _____ (in.) 3 = Paved Alley 7= Curb/Gutter 4 = Unpaved Alley 8 = Yard/field ____ Subject to Ponding 9 = Other Ponding Depth _____ (in) Condition | Material 1/1 Photo ID Comments Cover 1 2 3 0 1 2 3 110-0061 Open Pick hole Frame 1 2 (3) 0 1 2 3 110-0176 Chimney 1 2 (3) 0 1 2 3 Corbel 1-2-3 0 1 2 3 Wall PRECAST 1 2 3 0 1 2 3 Bench 1_2 3 0 1 2 3 Invert 1(2)3 0 1 2 3 Steps 1 (2)3 0 1 2 3 1 = Bad Condition 0 = No I/I2 = Poor Condition 1 = Low Flow 3 = Good Condition 2 = Medium Flow 3 = High Flow Evidence of Surcharge Surcharge Depth ___ (in) HIOM CLAY E 8.531 10" CLAY

Date: <u>\$/12/25</u> Crew: <u>GC 3 AH</u>	Project No.	<u> 24-034</u>
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Manhole N	0. 3-24					Inspe	rted	
Survey Pt.								cted:
Street OR		•				1 = Buried		
								r
						z – bortea	4 - Othe	
Location Co	ode:					Grade Cod	de:	
1 = Paved Stree		5 = Sidewalk				1= Even	uc	
2 = Unpaved St						2 = Above _		(in.)
3 = Paved Alley		7= Curb/Gutte	er			3 = Below		
4 = Unpaved A						•		
9 = Other		 				Subje	ct to Po	nding
						Ponding D	epth	(in)
	Condition	Material	1/1		Photo ID	Comment	S	
Cover	1 2 (3)		0 1 2	3	110-0064			
Frame	1 2 (3)		0 1 2	3	110-0177	Open Pi	ick ha	le.
Chimney	123		0 1 2			1		
Corbel	1-2 3		0 1 2	3				
Wall	1 2 ③	PRECAST	0 1 2	3				
Bench	1,23		0 1 2	3				
Invert	1 2 (3)		0 1 2	3			**************************************	· · · · · · · · · · · · · · · · · · ·
Steps	1 (2)3		012	3				
1 = Bad Conditi	on		0 = No I/I					
2 = Poor Condit	ion	-	1 = Low Fl	ow				
3 = Good Condi	tion		2 = Mediu	m Fl	ow			
			3 = High F	low				
Eviden	ce of Surcha	arge -	Surcharg	ge [epth	(in))	
			y lo"cca	41				
•				ĺ				:
		_	V.	1				
			~ ' 7.13 ⁽	,				
			ſ		\			
	[0 ⁴	cury (x7.2	0 _ ′					
		K.						
•		· · · · · · · · · · · · · · · · · · ·	7.10 J					
			TT					
			'4' CLAY					

Manhole Inspection
Crew: GC & AH

Manhala Na	3-26	<u></u>	Bonne or a second	,	∠ Inspected
Manhole No	•		•		Reason Not Inspected:
Survey Pt					1 = Buried 3 = C. N. O.
StreetE	_//\				2 = Bolted 4 = Other
					z - Boiteu Othe.
Landion Co	٠ ١ . ١			# <u>#</u>	Grade Code:
Location Co 1 = Paved Stree		5 = Sidewalk			1= Even
1 = Paved Stree 2 = Unpaved St		6 = Ditch			2 = Above(in.)
3 = Paved Alley		7= Curb/Gutter			3 = Below (in.)
4 = Unpaved Al		8 = Yard/field			a transfer and the a
9 = Other					Subject to Ponding
				·,	Ponding Depth (in)
	Condition	Material	1/1	Photo ID	Comments
Cover	1 (2) 3		0123		
Frame	1 2 3		0123	110-0196	Open Pick holes
Chimney	1 2 🕉			110-0192	
Corbel	1-2-3.		0 1 2 3		Daving 14 11
Wall	1 2 (3)	LINED BRICK	0 1 2 3	X	MOISTURE BOTTOM 4
Bench	1 2 3		0 1 2 3		
Invert	1 (2) 3		0 1 2 3		
Steps	1) 2.3		0 1 2 3		
1 = Bad Condit	tion		0 = No I/I	•	
2 = Poor Cond	lition		1 = Low Flow		
3 = Good Cond	dition		2 = Medium F	-low	
			3 = High Flow		
X Evide	ence of Surcl	harge	Surcharge	Depth	24 (in)
1		_			
			,		
			**	× 12.06	10" CLAY
	10"	CLAY XIZ.	ত 9	x 12.06	,
			and bugs have no	- /	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.		

Date:	5/12/25
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Manhole Inspection
Crew: <u>GC ∮ AH</u>

Project No. 24-034

Manhole N	0. 3-28				
					Reason Not Inspected:
	MILL				1 = Buried 3 = C. N. O.
					2 = Bolted 4 = Other
Location Co					Grade Code:/
1 = Paved Stre		5 = Sidewalk			1= Even
2 = Unpaved S 3 = Paved Alley					2 = Above(in.)
4 = Unpaved A		7= Curb/Gutte 8 = Yard/field	er .		3 = Below (in.)
9 = Other					Cubinat to Double
					Subject to Ponding
	Condition	Material	1/1	Dhata ID	Ponding Depth (in)
Cover		Material	1/1		Comments
	1 (2) 3		0123	110-0070	
Frame	1 (2) 3		0123	110-0207	Open PICK Holes
Chimney	1 2(3)		.0 1 2 3	110-0200	
Corbel	1-2-3		0 1 2 3	110-0209	i
Wall	1 ② 3	LINED BRICH	0 1 2 3	×	MolSTURE BOTTOM 4
Bench	1-2-3		0 1 2 3		
Invert	1 ② 3		0 1 2 3		
Steps	<u>(1)</u> 2 3		0 1 2 3		
1 = Bad Conditi	on		0 = No I/I		
2 = Poor Condit	ion		1 = Low Flow		
3 = Good Condi	tion		2 = Medium Fl	ow	
			3 = High Flow		
Eviden	ce of Surcha	arge	Surcharge D	epth	(in)
٨		,			
į			•	1	graphers refer to the conference symmetry.
			9	1.71	
		\	·	7 10" ex	ען
·					
				•	
)

Date: 5/12/25	Crew: GC 4 AH	Project No. <u>24-03-4</u>

Manhole No.	3-29					$ ot \succeq$ Inspe		
Survey Pt						Reason N	ot Inspected:	
Street				1 = Buried	3 = C. N. O.			
JH 66	- /					2 = Bolted	4 = Other	-
Location Coc	le: (Grade Co	ode: <u>(</u>	
1 = Paved Street		5 = Sidewalk				1= Even		
2 = Unpaved Str	•						(in.)	
3 = Paved Alley	-	7= Curb/Gutter				3 = Below _	(in.)	Ī
4 = Unpaved All	еу	8 = Yard/field					e e e e e e e e e e e e e e e e e e e	
9 = Other							ect to Ponding	io est
-						The second secon	Depth(in)	
	Condition	Material	1/1		Photo ID	Commer	nts	
Cover	123		0 1 2	3	110-0069			
Frame	1 2 3		0 1 2	3	110-0204	open	PIEK Holes	
Chimney	1 2 (3)		0 1 2	3	110-0205	,		
Corbel	1-2-3		0 1 2				- 101/6	
Wall	1 2 (3)	CIP CON C.	0 1 2	3	×	WATER	. SEEAPAGE	
Bench	1 2 3		0 1 2	3				
Invert	1 2 3		0 1 2	3				
Steps	1 2 3		0 1 2	3		1		
1 = Bad Condit	ion		0 = No I/I					
2 = Poor Condi	ition		1 = Low Fi	ow			*3	
3 = Good Cond			2 = Mediu	ım F	low		•	
1			3 = High F	low	I			
Evide	nce of Surc	harge			Depth		(in)	
EVIGE	IICE DI JUIC	110150		.	h			
							•	
A				-				
		/						
.					1	ىــــــ		
ring.			t		8.78 x			
		× 8.	81		8.70 × 10"	CLAY		
<u> </u>		10" CLAY			1			
		1	. .					
7		-		in the same	RANGE .			
					•			

Manhole Inspection
Crew: GC & AH

Manhole No			-		X Inspected		
Survey Pt							Reason Not Inspected:
Street BURLINGTON							1 = Buried 3 = C. N. O.
							2 = Bolted 4 = Other
			•				
Location Code:							Grade Code: \
1 = Paved Street		5 = Sidewalk					1= Even
		6 = Ditch					2 = Above (in.)
		7= Curb/Gutter					3 = Below (in.)
ł		8 = Yard/field				, , , , , , , , , , , , , , , , , , ,	
9 = Other							Subject to Ponding
							Ponding Depth (in)
	Condition	Material	l,	/		Photo ID	Comments
Cover	1 (2)3		0 1	2	3	110-0067	
Frame	1 🕢 3		0 1	2	3	110-0202	Open Pick Holes
Chimney	123		0 1	2	3	110-0203	No apparent I/I
Corbel	1-2-3		0 1	2 :	3		
Wall	1 (2) 3	LINED BRIGK	0 1	2	3		SEEPAGE BOTTOM 4'
Bench	1 2 3		0 1	2 :	3		
Invert	1 ② 3		0 1	2 :	3		
Steps	(1) 2 3		0 1	2	3		
1 = Bad Condition 0 = No I/I							
2 = Poor Condition				1 = Low Flow			
3 = Good Condition				2 = Medium Flow			
	3 = Hig	s = High Flow					
Evidence of Surcharge			Surcharge Depth				(in)
10" CLAY							
x 9.25 -> 9.31×							
(9.25)							
10" CLAY							
,							

