

Utility Advisory Commission Regular Meeting

Agenda

Thursday, February 6, 2020

7:00 pm – Gardner City Hall Council Chambers

CALL TO ORDER

PLEDGE OF ALLEGIANCE

PUBLIC COMMENT

CONSENT AGENDA

1. Standing approval of the minutes as written for the January 2, 2020 meeting of the Utility Advisory Commission.
2. Consider adoption of the 2020 Utilities Advisory Commission Meeting Schedule.

OLD BUSINESS

NEW BUSINESS

1. Consider appointment of City of Gardner representatives as Director #1, Director #2 and Alternate Director with voting rights to the Kansas Municipal Energy Agency (KMEA) Board of Directors.
2. Consider a Recommendation to the City Council for the implementation of the Public Inflow & Infiltration Improvements work for Basin 1 of the Inflow & Infiltration Project, Project No. WW1706.

DISCUSSION ITEMS

1. 2019 4th Quarter Electric Outage Report.
2. 2019 4th Quarter Wastewater Collection Repairs Report.
3. 2019 4th Quarter Water Distribution Repairs Report.
4. Project Update- Hillsdale Water Treatment Plant Expansion.

OTHER BUSINESS

ADJOURNMENT

UTILITIES ADVISORY COMMISSION STAFF REPORT CONSENT AGENDA ITEM #1
MEETING DATE: FEBRUARY 6, 2020
STAFF CONTACT: GONZ GARCIA, UTILITIES DIRECTOR

AGENDA ITEM: Standing approval of the minutes as written for the January 2, 2020 meeting of the Utilities Advisory Commission.

Background:

The draft minutes for the January 2, 2020 Utilities Advisory Commission meeting are attached.

Staff Recommendation:

Staff recommends approval of the minutes for the January 2, 2020 meeting of the Utilities Advisory Commission.

Attachments:

- Draft minutes of the January 2, 2020 Utilities Advisory Commission meeting.

**RECORD OF PROCEEDINGS
OF THE UTILITY ADVISORY COMMISSION
GARDNER, KANSAS**

Page No. 2019-22
January 2, 2020

The Utilities Advisory Commission of Gardner, Kansas, met in Regular Session on January 2, 2020, at City Hall. Present were Chairman Gary Williams, Vice Chairman Kristina Harrison, Commissioner Barbara Coleman, Commissioner Andrew Taylor, Utilities Department Director Gonzalo Garcia, and Administrative Assistant Erin Groh.

CALL TO ORDER

The meeting was called to order at 7:00 p.m. by Chairman Gary Williams.

PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS

CONSENT AGENDA

- 1. Standing approval of the minutes as written for the November 7, 2019, meeting of the Utility Advisory Commission.**

Motion by Commissioner Coleman, seconded by Vice Chairman Harrison, to approve the Consent Agenda.

Motion carried 4-0 Aye

OLD BUSINESS

NEW BUSINESS

- 1. Consider a recommendation to the City Council to procure a High Press CO2 Fire Protection System for the Gas Turbines.**

Director Gonz Garcia presented the staff report.

Director Garcia discussed how the current CO2 system has leaks and no longer meets NFPA suggested design practices and how a new CO2 will allow for us to keep fire protection active when the gas turbines are available in stand-by operation which is the status 99% of the time. Commissioner Coleman asked what the difference was between the two companies who submitted bids. Director Garcia stated that Johnson Controls Fire Protection has to go out and purchase the product from another company and install it, but Keller Fire & Safety represents the manufacturer here in Kansas.

Motion by Commissioner Coleman, seconded by Commissioner Taylor to forward a recommendation to the City Council to accept the low bid from Keller Fire & Safety for a High Pressure CO2 System as received on December 4, 2019 in the amount of \$99,739.

Motion carried 4-0 Aye

- 2. Consider a recommendation to the City Council for the implementation of the Private Inflow & Infiltration work for Basin 1 of the Inflow & Infiltration Project, Project No. WW1706.**

Director Gonz Garcia presented the staff report.

Director Garcia discussed how the Inflow & Infiltration program in Gardner provides prioritization, procedures, schedules and planning for maintaining the rehabilitation of the existing sanitary storm sewer system throughout the community. Of the private properties in Gardner, Director Garcia stated that Basin 1 is considered the most urgent of areas to be studied.

Motion by Vice Chairman Harrison, seconded by Commissioner Taylor to forward a recommendation to the City Council to fund \$125,000 for the implementation of the Private Inflow & Infiltration work for Drainage Basin 1 as part of Inflow & Infiltration Project, Project No. WW1706.

Motion carried 4-0 Aye

DISCUSSION ITEMS

1. Project Updates- Electric, Wastewater and Water.

Director Garcia discussed the Electric project updates:

Electric Distribution staff is currently collecting data for the Smart Meter Project. Also, the six G&W Automated Overhead Distribution Switches arrived and will be installed in 2020.

Director Garcia gave the Wastewater Treatment project updates:

Removal of the old blowers and installation of the new Inovair blowers at the Kill Creek Wastewater Treatment Plant has been completed. New concrete steps have been constructed at Kill Creek as well, which are located near the effluent sampler there at the plant.

For the I&I Program, the review of the flow monitoring, smoke testing and CCTV videos for phase 1 have been completed. Prioritization of the Public Manhole and Sewer Mainline repairs have been compiled. The Private I&I portion of the program is being prepared to begin this spring with inspection of properties within the first phase of the program.

Director Garcia gave the Water Treatment project updates:

The Hillsdale Water Treatment Plant Design Build project is under construction. These are the latest highlights:

- Currently, the project is working through the annexation and permitting process with Miami County and the City's Planning & Building Department.
- The Land Acquisition process is moving forward with the Condemnation process for the easements associated with the RAW waterline improvements that are required to feed the plant water from Hillsdale Lake.
- Site grading is still occurring on site to create the expansion and new lagoons.

OTHER BUSINESS

ADJOURNMENT

Motion by Commissioner Coleman, seconded by Vice Chairman Harrison, to adjourn the meeting at 7:39 p.m.

Motion carried 4-0 Aye

/s/ Erin Groh
Utilities Department Administrative Assistant

UTILITY ADVISORY COMMISSION STAFF REPORT CONSENT AGENDA ITEM #2
MEETING DATE: FEBRUARY 6, 2020
STAFF CONTACT: GONZ GARCIA, UTILITIES DIRECTOR

AGENDA ITEM: Consider adoption of the 2020 Utility Advisory Commission Meeting Schedule.

Background:

The proposed meeting schedule for 2020 is attached for consideration.

Staff Recommendation:

Approve the proposed 2020 Utility Advisory Commission Meeting Schedule.

Attachments:

- a. 2020 UAC Meeting Dates



Utility Advisory Commission Meetings – 2020

**All meetings begin at 7:00 p.m. in
Gardner City Hall Council Chambers**

January 2, 2020	(Thursday)	Regular Meeting
February 6, 2020	(Thursday)	Regular Meeting
March 5, 2020	(Thursday)	Regular Meeting
April 2, 2020	(Thursday)	Regular Meeting
May 7, 2020	(Thursday)	Regular Meeting
June 4, 2020	(Thursday)	Regular Meeting
July 2, 2020	(Thursday)	Regular Meeting
August 6, 2020	(Thursday)	Regular Meeting
September 3, 2020	(Thursday)	Regular Meeting
October 1, 2020	(Thursday)	Regular Meeting
November 5, 2020	(Thursday)	Regular Meeting
December 3, 2020	(Thursday)	Regular Meeting

UTILITY ADVISORY COMMISSION STAFF REPORT **NEW BUSINESS ITEM #1**
MEETING DATE: FEBRUARY 6, 2020
STAFF CONTACT: GONZALO GARCIA, UTILITIES DIRECTOR

AGENDA ITEM: Consider appointment of City of Gardner representatives as Director #1, Director #2 and Alternate Director with voting rights to the Kansas Municipal Energy Agency (KMEA) Board of Directors

Background:

The City of Gardner is a member of KMEA. In accordance with Section 5.1 of KMEA's Bylaws (see attached), each KMEA member City shall have two (2) Directors and an Alternate on its Board of Directors. Each Director so selected shall (a) reside within the territory served by the electric utility of the selecting Member; or (b) be an employee of the selecting Member. Each Director shall meet all other requirements of the Act and the Agreement. Each Director will serve for two (2) years; however, terms are staggered in order to maintain continuity on the Board of Directors.

Currently, the following persons have been appointed to represent the City of Gardner on the Kansas Municipal Energy Agency Board of Directors:

1. Director #1: Vacant (formerly Andrew Krievins), expiring April 30, 2021
2. Director #2: Gonzalo Garcia, expiring on April 30, 2020
3. Alternate: Vacant (formerly Clint Barney), expiring on April 30, 2020

There are two meetings per year and they are generally held in the Wichita area. The spring meeting coincides with the Kansas Municipal Utilities annual conference. At least one representative from the City of Gardner shall attend each of these meetings.

Staff Recommendation:

Approve the following recommendations to the City Council:

1. Appoint Matt Ponzer as Director #1 to fill vacancy, expiring April 30, 2021.
2. Reappoint Gonzalo Garcia as Director #2, expiring April 30, 2022.
3. Appoint Bruce Baldwin as Alternate Director, expiring April 30, 2022.

All with voting rights on the Kansas Municipal Energy Agency Board of Directors.

Attachments:

- KMEA By-Laws

EXCERPT OF BYLAWS OF KANSAS MUNICIPAL ENERGY AGENCY
ARTICLE V
BOARD OF DIRECTORS

Section 5.1. Selection of Directors. The property and business of the Agency shall be managed by the Board of Directors of the Agency. The Board of Directors shall consist of two (2) Directors for each Member, provided that there shall be not less than seven (7) Directors. The Directors shall be selected by the governing bodies of the Members. In the event that the number of Members is less than seven (7), each Member shall be represented by the number of Directors which would constitute a Board of Directors of not less than seven (7) Members, provided that each Member shall select the same number of Directors. Each Member must designate the two (2) Directors as “Director-1” and “Director-2”.

The term of each Director shall be for a period of two (2) years except that the initial term of a number equal to one half of the Directors, comprised of those individuals designated as Director-2, shall be selected to a term of one (1) year. **Any Director selected by a Member may be removed at any time by the Member selecting the Director. Each Director so selected shall (a) reside within the territory served by the electric utility of the selecting Member; or (b) be an employee of the selecting Member. Each Director shall meet all other requirements of the Act and the Agreement.** Any such selection (other than a replacement selection) shall occur prior to the annual meeting of the Agency. Written evidence of selection shall be forwarded by the City Clerk or other authorized official of the Member to the Agency in writing prior to the annual meeting. Each Director shall continue in office until a successor is selected in accordance with this **Article V**.

Section 5.2. Voting Powers. Each Member shall be entitled to one Director vote on the Board of Directors which shall be equal to the vote of every other Member. Such vote shall be cast on behalf of the Member by Director-1 of such Member, if present; if such Director-1 is not present then by Director-2. Other than actions required in **Article XII** hereof, all actions of the Board of Directors shall be made upon affirmative vote of a majority of the Directors entitled to vote and voting on such action.

Section 5.3. Compensation. Except as may be specifically authorized by the Board of Directors, no Director shall receive payment from the Agency for any time spent in attending meetings of the Board of Directors or otherwise conducting business of the Agency. To the extent that funds are available, the Board of Directors, the Executive Committee, or the General Manager may authorize payment of expenses for travel in connection with the business of the Agency for other than meetings of the Board of Directors pursuant to the Act.

Section 5.4. Vacancies. In the event of a vacancy on the Board of Directors the appropriate Member shall select an individual to fill such vacancy for the remainder of the term in accordance with the same procedure as set forth for the selection of the initial Director. Written evidence of selection shall be provided to the Agency before voting privileges will take effect.

Section 5.5. Removal or Resignation. A Director may be removed only by the governing body of the Member selecting such Director. Any Director may resign by providing notice to the governing body of the Member the Director represents. The governing body shall certify to the Agency such removal or resignation of a Director.

Section 5.6. Successor Director. Upon removal or resignation of a Director, a successor Director will be selected by the governing body in the same manner as the original Director was selected, and the successor Director will be certified by the governing body to the Agency in the same manner as the original Director was certified. The successor Director shall serve for the remainder of the unexpired term of the original Director, subject to the rights of the governing body and such successor Director under **Section 5.5** of these Bylaws.

Section 5.7. Alternates. Each Member shall designate an Alternate or Alternates for the Director in the same manner as the Directors are designated. In the event any Director is unable to attend a meeting, any duly appointed Alternate may substitute at the meeting of the Board of Directors for such Director. The Member shall provide the Agency with written notification of the selection of such Alternate or Alternates. In the event neither Director designated by the Member is present, the Alternate may vote on behalf of such Member unless the governing body of the Member has specifically prohibited the Alternate from voting on the Member’s behalf. If more than one Alternate is designated by the Member, the governing body shall specify in its designation the order in which the Alternates shall have voting rights on behalf of the Member.

UTILITY ADVISORY COMMISSION STAFF REPORT NEW BUSINESS ITEM #2
MEETING DATE: FEBRUARY 6, 2020
STAFF CONTACT: GONZ GARCIA, UTILITIES DIRECTOR

AGENDA ITEM: Consider a recommendation to the City Council for the implementation of the Public Inflow & Infiltration Improvements work for Basin 1 of the Inflow & Infiltration Project, Project No. WW1706

Background:

In 2018, Trekk Design Group, LLC was selected via the RFQ process that included 6 firms submitting proposals for the Inflow & Infiltration (I&I) program. The 2017 Wastewater Master Plan made recommendations for the City of Gardner to adopt and implement an I&I program. Trekk has performed flow monitoring, flow calculations and reviewed proposed CIP projects from the 2017 Wastewater Master Plan in 13 drainage basins throughout the City. This information collected has been reviewed and prioritized. Drainage Basin 1 was determined to have the highest I&I and was selected as a “pilot” program.

The I&I program provides prioritization, procedures, schedules, and planning for maintaining and rehabilitation of the existing sanitary storm sewer system throughout the community. This program will improve the efficiency of operation and maintenance provided to the community by the Utility Department.

On January 2nd a presentation was given on the Private I&I costs and recommendation for starting those improvements. The UAC recommended moving forward with the Private I&I Program in which the goal is to cost-effectively remove significant sources of I&I on private property that are contributing to the excessive wet weather flow to the sanitary sewer system.

The next step in the process is to perform improvements within the Drainage Basin 1 on the publicly owned sanitary sewer system. The testing performed in July of 2019, which included smoke testing, and review of all CCTV videos covering the first phase of the pilot program were collected by City crews and reviewed by Trekk. The public I&I program consists of:

1. Manhole Rehabilitation:
 - a. Replacement of Frames & Covers
 - b. Raise Manholes
 - c. Removal of Flap Gates
 - d. Manhole Lining (Epoxy/Cementitious)
 - e. Bench/Invert Rehabs/Replacements
 - f. Seal any other defects
2. CIPP (Cured-In-Place-Pipe)
3. Point Repairs

4. Routine Maintenance

Trekk has performed an evaluation of these items rating these items as Priority 1 & 2 based on the testing and inspections performed on the Public Infrastructure for Sanitary Sewer Main Lines and Manhole Rehabilitation.

Sanitary Sewer Main Lines:

Priority 1: Rehab Cost is Estimated at \$238,371

Priority 2: Rehab Cost is Estimated at \$190,130

Manhole Rehabilitation:

Priority 1: Rehab Costs is Estimated at \$70,656

Priority 2: Rehab Costs is Estimated at \$22,094

It is anticipated that the findings from Drainage Basin 1 will be used to project future budget amounts for the I&I program.

Staff and Committee Recommendation:

Approve a recommendation to the City Council to fund Public Sanitary Sewer and Manhole Rehabilitation Improvements for the Public Inflow & Infiltration work for Drainage Basin 1 as part of Inflow & Infiltration Project, Project No. WW1706.

Attachments:

A. Trekk Prioritization Spreadsheets: Manhole Rehabilitations and Public Sanitary Sewer lines.

PRELIMINARY MANHOLE REHABILITATION SCHEDULE FOR CITY OF GARDNER, KANSAS

REHAB CODE DESCRIPTIONS

A - REPLACE FRAME / COVER / FRAME SEAL

B - REPLACE FRAME SEAL / EXTERNAL WRAP / RE-ALIGN

C - CEMENTITIOUS WALL LINER

D - EPOXY WALL LINING

E - BENCH / INVERT REHAB OR REPLACE

F - PIPE SEAL REHAB

G - REMOVE FLAP GATE

H - ALTERNATIVE OPTION TO REPLACE COVER ONLY

I - EXPOXY LINE BOTTOM PORTION OF MANHOLE

J - CEMENTITIOUS LINING OF BOTTOM PORTION OF MANHOLE

K - SEAL PRECAST JOINTS AND LIFT HOLES

L - RAISE MANHOLE

Manhole Number	Current Inspection Status	Smoke Results	Address	Location Description	Dia (in)	Depth (ft)	Grade (ft)	Grade Detail	A	B	C	Cementitious Depth (ft)	D	Epoxy Depth (ft)	E	F	G	H	I	Bottom Epoxy Liner Depth (ft)	J	Bottom Cementitious Depth (ft)	K	L	Priority	Paved / Unpaved	Rehab. \$/MH	Add. Re-Surface / Fence	Total Rehab \$/MH	Floodplain	Comments				
15NE01	Inspection Complete			In grass/woods	48	12.5	1.62	Above grade																	3	Unpaved	\$0		\$0	Yes	Surface Roughness				
15NE02	Inspection Complete			In grass/woods	60	14.3	1.5	Above grade																		1	Unpaved	\$300		\$300	Yes	Corroded Frame, Surface Roughness, Fine Roots			
15NE03	Inspection Complete			In grass/woods	60	14.8	1.66	Above grade																		1	Unpaved	\$300		\$300	Yes	Corroded Frame, Surface Roughness			
15NE04	Inspection Complete			In grass/woods	60	17.4	1.84	Above grade																		1	Unpaved	\$300		\$300	Yes	Surface Aggregate Visible			
15NE05	Inspection Complete			In grass/woods	60	19.4	2.12	Above grade																		1	Unpaved	\$300		\$300	Yes	Corroded Frame, Surface Aggregate Visible, Leaking Pipe Seal			
15NE06	Inspection Complete			In grass/woods	60	15.3	1.86	Above grade																		1	Unpaved	\$300		\$300	Yes	Surface Aggregate Visible			
15NE07	Inspection Complete			In grass/woods	60	17.9	2.26	Above grade																		1	Unpaved	\$300		\$300	Yes	Surface Aggregate Visible			
15SE01	Inspection Complete			In grass/woods	60	13.7	1.3	Above grade					1	13.7												1	Unpaved	\$4,110		\$4,110	Yes	Corroded Frame, Surface Aggregate Visible, Leaking Pipe Seal			
15SE02	Inspection Complete			In grass/woods	60	18.6	1.44	Above grade					1	18.6												1	Unpaved	\$5,580		\$5,580	Yes	Corroded Frame, Surface Roughness, Leaking Pipe Seal			
15SE03	Inspection Complete			In grass/woods	60	14.2	1.3	Above grade																		1	Unpaved	\$0		\$0	Yes				
15SE04	Inspection Complete			In grass/woods	60	15.3	2.04	Above grade		1																1	Unpaved	\$0		\$0	Yes				
15SE05	Inspection Complete			In grass/woods	72	10.9	1.62	Above grade		1																1	Unpaved	\$0		\$0	Yes				
15SE06	Inspection Complete			In grass/woods	60	12.5	2.7	Above grade		1																1	Unpaved	\$0		\$0	Yes				
15SE07	Inspection Complete			In grass/woods	60	13.8	1.54	Above grade		1																1	Unpaved	\$0		\$0	Yes				
15SE08	Inspection Complete			In grass/woods	60	11.6	0.76	Above grade		1																1	Unpaved	\$0		\$0	Yes				
23SE01	Inspection Complete		312 West Main Street	In street	48	12.6	0	At grade	1		1	12.6														1	Paved	\$1,575	\$1,500	\$3,075	No	Weepers in Frame, Wall and Cone.			
23SE02	Inspection Complete		312 West Main Street	In grass next to street	48	14.0	0	At grade																		1	Unpaved	\$750		\$750	No	Wall weepers			
23SE03	Inspection Complete		104 N Walnut St	In grass next to street	48	15.8	0	At grade												1		9				1	Unpaved	\$2,700		\$2,700	No	Multiple wall weepers			
23SE04	Inspection Complete		102 N Walnut St	In street	48	17.7	0	At grade																		3	Paved	\$0		\$0	No	Cover oversized			
23SE05	Inspection Complete		110 N Walnut St	In street	48	17.6	0	At grade																		3	Paved	\$0		\$0	No				
23SE06	Inspection Complete		207 W Shawnee St	In grass backyard	48	22.5	0.3	Above grade					1	22.5												1	Unpaved	\$6,750		\$6,750	No	Lined. Lining is cracked with significant roots			
23SE07	Inspection Complete		149 W Shawnee St	In grass backyard	48	16.9	0	At grade	1										1	1		8				1	Unpaved	\$2,400		\$2,400	No	Lined and vented cover. Lining is cracked with roots			
23SE08	Inspection Complete		116 West Main Street	In grass backyard	48	18.1	0.12	Above grade																		1	Unpaved	\$1,000		\$1,000	No	Weepers in Wall, Defective Pipe Seal			
23SE09	Inspection Complete		149 W Shawnee St	In grass backyard	48	8.0	0	At grade			1	8														2	Unpaved	\$1,000		\$1,000	No	Fracture in wall lining			
23SE10	Inspection Complete		129 N Oak St	In street	48	5.2	0	At grade																		3	Paved	\$0		\$0	No				
23SE11	Inspection Complete		158 W Washington St	In street	48	2.5	-0.12	Below Grade			1	2.5														2	Paved	\$313		\$313	No				
23SE12	Inspection Complete		216 W Washington St	In street	48	4.0	0	At grade																		3	Paved	\$0		\$0	No				
23SE12C	Could Not Locate		216 W Washington St																													No			
23SE13	Inspection Complete		221 W Washington St	In grass backyard	48	5.5	-0.5	Below Grade																		1	2	Unpaved	\$1,000		\$1,000	No			
23SE13C	Could Not Locate		221 W Washington St																													No			
23SE14	Inspection Complete		131 North Center Street	In grass next to street	48	7.6	-0.12	Below Grade	1																		1	Unpaved	\$400	\$1,000	\$1,400	No	Vented Cover, Defective Pipe Seal		
23SE15	Inspection Complete		131 North Ott Lane	In grass	48	9.6	0	At grade	1																		1	Unpaved	\$500		\$500	No	Vented cover, Weepers in wall, Bench fracture, Bad Pipe Seal		
23SE16	Inspection Complete		133 North Ott Lane	In grass backyard	48	7.8	0.52	Above grade		1	1	7.8															1	Unpaved	\$975		\$975	No	Vented cover, Frame offset, Weepers in wall		
23SE17	Inspection Complete		138 West Washington Street	In grass next to street	48	4.2	0	At grade	1																		1	Unpaved	\$0	\$1,000	\$1,000	No	Vented Cover, Cone Crack		
23SE17C	Buried and Marked		138 West Washington Street	In street																												No			
23SE18	Inspection Complete		142 West Shawnee Street	In grass backyard	48	3.5	0.2	Above grade																			1	Unpaved	\$400		\$400	No	Vented Cover, Defective Pipe Seal		
23SE19	Inspection Complete		204 N Walnut St	In grass next to street	48	13.9	0	At grade																			1	Unpaved	\$500		\$500	No	Fracture in wall lining, vented cover		
23SE20	Inspection Complete		226 N Walnut St	In grass next to street	48	11.8	0	At grade	1																		1	Unpaved	\$0		\$0	No	Vented cover		
23SE21	Inspection Complete		238 N Walnut St	In grass next to street	48	8.0	0	At grade	1																		1	Unpaved	\$0		\$0	No	Vented cover		
23SE22	Inspection Complete		237 North Pine Street	In grass next to street	48	4.4	0	At grade	1																		1	Unpaved	\$0		\$0	No	Vented cover		
23SE23	Inspection Complete		225 North Pine Street	In grass next to street	48	7.1	0	At grade	1																		1	Unpaved	\$0	\$1,000	\$1,000	No	Fracture in wall lining, Pipe seal defective, Bench/Invert		
23SE24	Inspection Complete		213 North Pine Street	In grass next to street	48	6.9	0.2	Above grade			1	6.9															1	Unpaved	\$863		\$863	No	Defective, Vented cover		
23SE25	Inspection Complete		117 N Pine St	In the grass	48	6.2	-0.12	Below Grade																			3	Unpaved	\$0		\$0	No	Fracture in wall lining, Pipe seal defective, vented cover		
23SE26	Inspection Complete		131 N Pine St	In grass backyard	48	7.1	0	At grade			1	7.1															2	Unpaved	\$988		\$988	No	Fracture wall, Flap gate		
23SE27	Inspection Complete		115 Circle Drive	In grass backyard/easement	48	6.7	0	At grade																			1	2	Unpaved	\$300		\$300	No		
23SE28	Inspection Complete		115 Circle Drive	In grass backyard	48	6.5	0	At grade																				1	1	Unpaved	\$300		\$300	No	
23SE29	Inspection Complete		130 North Pine Street	In grass backyard	48	6.9	0	At grade																				1	1	Unpaved	\$300		\$300	No	
23SE30	Inspection Complete		122 Circle Drive	In grass next to street	48	6.1	0	At grade																				3	Unpaved	\$0		\$0	No		
23SE30C	Cleanout		124 Circle Drive	In grass																												No			
23SE30C1	Cleanout		322 West Main Street	In grass																												No			
24SW55	Inspection Complete		131 North Center Street	In street	48	7.7	0	At grade																				3	Paved	\$0		\$0	No	Grease Deposits in Channel	
24SW56	Inspection Complete		117 East Washington Street	In grass	48	3.7	0	At grade			1	3.7																2	Unpaved	\$463		\$463	No	Brick MH, Hole in Bench	
24SW57	Inspection Complete		125 East Washington Street	In parking lot	48	8.1	0	At grade			1	8.1																				No	Brick MH, Mortar Missing in Chimney, Wall Infr - Runner & Weeper, Surface Spalling, Hole in Bench, Mortar Missing in Pipe Seal		
24SW58	Inspection Complete		218 East Shawnee Street	In street	48	5.0	0	At grade			1	5																				No	Brick MH, Chimney missing mortar, Wall weeper, Hole in Bench, Pipe seal missing mortar		
24SW59	Inspection Complete		200 East Shawnee Street	In street	48	7.5	0	At grade																				1	Paved	\$625		\$625	No		
24SW60	Inspection Complete		233 East Shawnee Street	In street	48	6.0	0	At grade			1	6																3	Paved	\$0		\$0	No	Brick MH, Adjustment Ring Leaking, Pipe Seal Missing Mortar	
24SW61	Inspection Complete		233 East Shawnee Street	In concrete alley	48	6.0	-0.16	Below Grade	1																			2	Paved	\$750		\$750	No	Adjustment ring leaking, Brick MH, Pipe seal defective	
24SW61C	Inspection Complete		111 North Elm Street	In gravel alley	48	6.2	0	At grade			1	6.2																1	Paved	\$0	\$1,500	\$1,500	No	Brick MH, Weeper @ Frame Seal	
24SW62	Inspection Complete		202 East Washington Street	In concrete sidewalk	48	4.3	0	At grade			1	4.3																1	Unpaved	\$875		\$875	No	Wall-Weeper, Flap gate	
24SW63	Inspection Complete		210 North Center Street	In street																															

PRELIMINARY MANHOLE REHABILITATION SCHEDULE FOR CITY OF GARDNER, KANSAS

REHAB CODE DESCRIPTIONS

A - REPLACE FRAME / COVER / FRAME SEAL

B - REPLACE FRAME SEAL / EXTERNAL WRAP / RE-ALIGN

C - CEMENTITIOUS WALL LINER

D - EPOXY WALL LINING

E - BENCH / INVERT REHAB OR REPLACE

F - PIPE SEAL REHAB

G - REMOVE FLAP GATE

H - ALTERNATIVE OPTION TO REPLACE COVER ONLY

I - EPOXY LINE BOTTOM PORTION OF MANHOLE

J - CEMENTITIOUS LINING OF BOTTOM PORTION OF MANHOLE

K - SEAL PRECAST JOINTS AND LIFT HOLES

L - RAISE MANHOLE

Manhole Number	Current Inspection Status	Smoke Results	Address	Location Description	Dia (in)	Depth (ft)	Grade (ft)	Grade Detail	A	B	C	Cementitious Depth (ft)	D	Epoxy Depth (ft)	E	F	G	H	I	Bottom Epoxy Liner Depth (ft)	J	Bottom Cementitious Depth (ft)	K	L	Priority	Paved / Unpaved	Rehab. \$/MH	Add. Re-Surface / Fence	Total Rehab \$/MH	Floodplain	Comments		
25NW14	Inspection Complete		106 S Center St	In street	48	7.5	0	At grade	1										1						1	Paved	\$0	\$1,500	\$1,500	No	Brick MH, Undersized Cover, Cracked Frame-Weeper, Deposits		
25NW15	Inspection Complete		122 East Warren Street	In street	48	10.1	-0.16	Below Grade											1	4					1	Paved	\$1,200		\$1,200	No	Weepers in Wall, Defective Pipe Seal		
25NW16	Inspection Complete		202 South Center Street	In street	48	8.2	0	At grade																	3	Paved	\$0		\$0	No	Adjustment ring leaking		
25NW17	Buried and Marked		123 East Warren Street	In street																						Paved	\$0		\$0	No			
25NW18	Inspection Complete		141 East Warren Street	In street	48	6.9	0	At grade	1		1	6.9													2	Paved	\$863	\$1,500	\$2,363	No	Brick MH, Offset Seal Condition		
25NW19	Inspection Complete		221 East Warren Street	In street	48	3.7	0	At grade	1																2	Paved	\$0	\$1,500	\$1,500	No	Brick MH, Cracked Adjustment Ring, Flap Gate Pipe		
25NW20	Inspection Complete		136 East Warren Street	In gravel alley	48	11.2	-0.25	Below Grade																	3	Unpaved	\$0		\$0	No	Brick MH		
25NW21	Inspection Complete		206 East Warren Street	In gravel alley	48	9.5	0	At grade																	3	Unpaved	\$0		\$0	No	Brick MH		
25NW22	Inspection Complete		140 South Sycamore Street	In gravel alley	48	7.2	0	At grade																	3	Unpaved	\$0		\$0	No	Flap gate		
25NW23	Inspection Complete		128 East Park Street	In gravel alley	48	7.3	-0.16	Below Grade			1	7.3													2	Unpaved	\$913		\$913	No	Brick MH, Cracked Frame Seal, Defective Pipe Seal		
25NW24	Inspection Complete		107 South Elm Street	In concrete alley	48	8.4	0	At grade			1	8.4			1										1	Paved	\$1,900		\$1,900	No	Brick MH, Loose Frame Seal, Hole in Bench, Defective Pipe Seal		
25NW25	Inspection Complete		234 East Park Street	In asphalt alley	48	6.0	0	At grade			1	6													2	Paved	\$750		\$750	No	Brick MH, Chimney stains, Defective pipe seals		
26NE02	Inspection Complete		318 Meadowbrook Circle	In grass	48	9.8	0	At grade																	3	Unpaved	\$0		\$0	No			
26NE03	Inspection Complete		216 Meadowbrook Circle	In grass next to street	48	12.7	0	At grade			1	12.7													1	Unpaved	\$1,588		\$1,588	No	Brick MH, Roots-Wall, Pipe Seal-Roots-2x		
26NE04	Inspection Complete		309 West Warren Street	In grass next to street	48	16.1	0	At grade																	3	Unpaved	\$0		\$0	No	Fracture in wall lining, Deposits on bench, Pipe seal defective		
26NE05	Inspection Complete	Medium	120 Meadowbrook Drive	In grass backyard	48	13.8	0	At grade			1	13.8													1	Unpaved	\$1,725		\$1,725	No	Brick MH, Chimney Weeper, Cone Fine Roots/Mortar Missing, Wall Fine Roots/Staining		
26NE06	Inspection Complete		226 Meadowbrook Circle	In grass next to street	48	4.5	0	At grade																	3	Unpaved	\$0		\$0	No			
26NE07	Inspection Complete		210 Meadowbrook Circle	In grass next to street	48	6.1	0	At grade																	3	Unpaved	\$0		\$0	No			
26NE08	Inspection Complete		208 Meadowbrook Circle	In grass next to street	48	7.7	0	At grade			1	7.7													1	Unpaved	\$963		\$963	No	Brick MH, Weeper-Wall		
26NE09	Inspection Complete		321 West Warren Street	In asphalt driveway	48	12.9	-0.18	Below Grade																	3	Paved	\$0		\$0	No			
26NE10	Inspection Complete		345 West Warren Street	In grass next to street	48	6.3	0	At grade																	3	Unpaved	\$0		\$0	No			
26NE11	Inspection Complete		123 Meadowbrook Drive	In grass next to asphalt driveway	48	9.7	0.3	Above grade													1	4			1	Paved	\$500		\$500	No	Wall lining failing, Pipe seal defective		
26NE12	Inspection Complete		109 Meadowbrook Drive	In grass front yard	48	9.4	-0.12	Below Grade			1	9.4													2	Unpaved	\$1,175		\$1,175	No			
26NE13	Inspection Complete		123 South Poplar Street	In grass backyard	48	6.5	0	At grade			1	6.5													1	Unpaved	\$813		\$813	No	Weeper in cone, Pipe seal defective		
26NE14	Inspection Complete		339 West Main Street	In grass backyard	48	8.0	0	At grade			1	8													1	Unpaved	\$1,000		\$1,000	No	Brick MH, Wall leaking, Pipe seal defective		
26NE15	Inspection Complete		251 West Warren Street	In grass next to street	48	7.8	0	At grade			1	7.8													2	Unpaved	\$975		\$975	No	Fracture in wall		
26NE16	Inspection Complete		249 West Park Street	In grass next to street	48	6.5	0.3	Above grade							1										2	Unpaved	\$850		\$850	No	Brick MH, Defective Pipe Seal		
26NE17	Inspection Complete		112 South Pine Street	In concrete alley approach	48	4.8	0	At grade			1	4.8													2	Paved	\$600		\$600	No	Brick MH		
26NE18	Inspection Complete		112 South Oak Street	In gravel alley	48	9.9	0	At grade													1	4			2	Unpaved	\$500		\$500	No	Fracture on Wall		
26NE19	Inspection Complete		112 South Oak Street	In gravel alley	48	8.5	-0.12	Below Grade																	3	Unpaved	\$0		\$0	No	Flap gate		
26NE20	Inspection Complete		214 West Warren Street	In grass backyard	48	8.2	0	At grade							1										2	Unpaved	\$850		\$850	No	Brick MH, Hole in Channel, Fracture in Bench, Defective Pipe Seals		
26NE21	Inspection Complete		134 South Oak Street	In grass	48	7.9	0	At grade			1	7.9													1	Unpaved	\$988		\$988	No	Brick MH, Roots in Chimney & Wall, Defective Pipe Seal		
26NE22	Inspection Complete		131 West Park Street	In gravel alley	48	6.1	0	At grade																	3	Unpaved	\$0		\$0	No	Flap gate		
26NE23	Inspection Complete		235 West Warren Street	In concrete driveway	48	8.5	0	At grade	1		1	8.5													1	Paved	\$1,063	\$1,500	\$2,563	No	Undersized Cover, Hole in Chimney, Fracture in wall, Defective Pipe Seals (2x)		
26NE24	Inspection Complete		215 West Warren Street	In grass next to street	48	7.6	0	At grade																	3	Unpaved	\$0		\$0	No	Fracture in liner - Cone		
26NE25	Inspection Complete		153 West Warren Street	In grass at back of curb	48	8.6	0	At grade			1	8.6													1	Unpaved	\$1,075		\$1,075	No	Fractures in cementitious liner (3x)		
26NE26	Inspection Complete	Light	135 West Warren Street	In grass next to street	48	9.2	0	At grade			1	9.2													1	Unpaved	\$1,250		\$1,250	No	Flap Gate		
26NE27	Inspection Complete		115 West Warren Street	In grass/curb/driveway	48	7.0	0	At grade																	3	Both	\$0		\$0	No	Half in grass, half in driveway		
26NE28	Inspection Complete		135 West Warren Street	In grass/curb	48	7.6	0	At grade																	3	Both	\$0		\$0	No	Flap gate		
26NE29	Inspection Complete		131 West Park Street	In dirt/gravel alley	48	7.7	0	At grade																	3	Unpaved	\$0		\$0	No			
26NE30	Inspection Complete		131 West Park Street	In dirt/gravel alley	48	7.4	0	At grade																	3	Unpaved	\$0		\$0	No	Flap gate		
26NE31	Inspection Complete		116 West Park Street	In gravel alley	48	11.2	0	At grade	1		1	11.2													2	Unpaved	\$1,400	\$500	\$1,900	No	Brick MH, Missing Brick		
26NE32	Inspection Complete		131 West Park Street	In gravel alley	48	11.6	-0.32	Below Grade			1	11.6													2	Unpaved	\$1,450		\$1,450	No	Brick MH, Roots Fine in Chimney		
26NE33	Inspection Complete		158 West Park Street	In gravel alley	48	9.2	-0.2	Below Grade													1	4			1	Unpaved	\$600		\$600	No	Flap gate, Wall Weepers (3x)		
									16	7	33			3		3	2	5	9	3					7								

Priority 1 Sub-Total	\$50,940	\$10,500	\$61,440
Contingency (15%)	\$7,641	\$1,575	\$9,216
Priority 1 Total	\$58,581	\$12,075	\$70,656
Priority 2 Sub-Total	\$15,713	\$3,500	\$19,213
Contingency (15%)	\$2,357	\$525	\$2,882
Priority 2 Total	\$18,069	\$4,025	\$22,094
Sub-Total	\$66,653	\$14,000	\$80,653
Contingency (15%)	\$9,998	\$2,100	\$12,098
Total	\$76,650	\$16,100	\$92,750



Priority
 1 Active I/I and / or multiple structural defects
 2 Needs Rehabilitation but no Immediate Structural Concerns
 3 Routine Maintenance

TELEVISION DIRECTION	CITY US MANHOLE	CITY DS MANHOLE	CCTV	DATE TELEVIEWED	STREET	TV PIPE LENGTH	GIS PIPE LENGTH	CCTV DIA	PIPE MATERIAL	REVIEWER	COMPLETE INSPECTION	ACTIVE I/I	RECOMMENDATION	PRIORITY	POINT REPAIR COST	REPLACE COST	NON-TYPICAL REPAIR COST	RE-CLEAN & CCTV	CLEANOUT / RISER COST	CIPP COST	TOTAL COST	# Service Connections	Defective Service Connections	Confidence Level Video is Correct (L/M/H)	Why Confidence Level is Not High	COMMENTS
Downstream	23SE09	23SE07	City	3/18/2019	149 W Shawnee St	61.6	63.8	8	VCP	BRM	Yes	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,595	\$ 1,595	1	1	H		Roots in joints, roots in lateral, pipe material changes to PVC @ 50'. Video comes up a couple feet short, but can see MH.
Downstream	23SE10	23SE09	City	1/4/2019	129 N Oak Ter	247.4	244.6	8	VCP	BRM	Yes	No	No repairs needed	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1	1	H		Lined, Sag, Camera underwater @235'. There is a 2nd video with this label that appears to be a line just North of the project area.
Downstream	23SE109	23SE108	City	1/7/2019	271 W McKinley	354.9	352.4	8	PVC	JLH	Yes	No	No repairs needed	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8	0	H		pipe looks good
Downstream	23SE11	23SE10	City	1/7/2019	158 W Washington	125.7	125.8	8	VCP	BRM	Yes	No	No repairs needed	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1	-	M	2 videos but appear to be different lines. This video matches length of segment	Lined. 2 videos same label but different lines (2nd one 97.8')
Downstream	23SE12	23SE11	City	12/11/2018	216 W Washington	400.5	397.8	8	VCP	BRM	Yes	No	No repairs needed	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4	0	H		Lined. Roots in lateral (121.1)
-	23SE12C	23SE12	City	No Video	216 W Washington St	-	24.9	8	VCP	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-	23SE12C not found, Not Televised
Downstream	23SE13	23SE10	City	3/11/2019	216 W Shawnee St	405.6	395.7	8	VCP	BRM	Yes	Yes	Point Repair @ 67.2' from 23SE13 & CIPP	1	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,140	\$ 20,140	8	4	H		Collapsed Pipe @ 67.2, cracks and roots in joints
-	23SE13C	23SE13	City	No Video	221 W Washington St	-	45.9	8	VCP	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-	23SE13C not found, Not Televised
-	23SE14	24SW55	City	No Video	134 N Center St	-	53.4	8	VCP	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-	No Video
Downstream	23SE15	23SE14	City	3/11/2019	134 N Center St	22.1	331.1	8	VCP	BRM	No	No	Point Repair @ 22.1' from 23SE15 & Re-televiser entire segment	1	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000	3	2	M		Tap Break-in @22.1. Lateral pipe sticks into main far enough to stop camera from traversing
Upstream	23SE16	23SE15	City	3/11/2019	131 N Ott	108.1	110.8	8	VCP	BRM	Yes	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,771	\$ 2,771	3	2	H		Roots in Joints, Large Offset @110.8' (real close to MH)
Downstream	23SE17	23SE16	City	1/8/2019	138 W Shawnee	35.3	238.3	8	VCP	BRM	No	No	Re-televiser to get entire segment	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	-	M		Roots at Joints, Need reverse Setup or Cleaned
-	23SE17C	23SE17	City	No Video	138 W Washington St	-	36.9	8	VCP	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-	No Video
Downstream	23SE18	23SE17	City	1/8/2019	134 W Shawnee St	141.2	144.8	8	VCP	BRM	Yes	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,620	\$ 3,620	2	1	H		Roots in Joints, Offset
Downstream & Upstream	23SE19	23SE05	City	12/5/2018	112 N Walnut	405.8	411.1	8	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,278	\$ 10,278	2	1	H		Cracks, Offsets, Sags, Roots
Downstream	23SE20	23SE19	City	11/30/2018	226 N Walnut	202.4	331.5	8	VCP	BRM	No	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,287	\$ 8,287	7	3	M		Roots, Roots in Lateral, Offset Joint w roots @ 56.5, Fractures. Missing 130' of video
Downstream	23SE21	23SE20	City	11/30/2018	238 N Walnut	232.7	231.7	8	VCP	BRM	Yes	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,792	\$ 5,792	8	6	H		Cracks, Lots of roots in joints
Upstream	23SE22	23SE21	City	11/30/2018	242 W Jefferson St	266.5	273.6	8	VCP	BRM	No	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,840	\$ 6,840	3	2	L	Only a PDF report for this segment and no video	based on PDF report there is roots in some joints
Downstream	23SE23	23SE22	City	11/29/2018	225 N Pine St	239.5	231.6	8	VCP	JLH	Yes	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,988	\$ 5,988	3	2	H		Roots in joints and an offset
Downstream	23SE24	23SE23	City	11/29/2018	-	225.6	224.6	8	VCP	BRM	Yes	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,640	\$ 5,640	4	3	H		Roots in Joints, Cracks, Broken Pipe @ 3 & 83.4, Offset @ 101.9, Sags
Downstream	23SE25	23SE03	City	3/19/2019	117 N Pine St	195.3	194.0	8	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,883	\$ 4,883	4	2	H		Cracks, Roots in Joints, Roots in laterals,
Downstream	23SE26	23SE25	City	3/19/2019	131 N Pine St	256.7	264.4	8	VCP	BRM	Yes	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,611	\$ 6,611	12	7	H		Tap Break-in/Roots @ 12.9' @52.9' @62.5' @109.4' @150.6' @208.9', broken pipe @17'. Roots in Joints, Cracks
Downstream	23SE27	23SE02	City	3/22/2019	115 N Circle Dr	60.0	194.6	8	VCP	BRM	No	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,865	\$ 4,865	3	2	H		Roots in joints, Cracks, Tap Break-in/Roots @10.2' @56.9'. Missing large chunk of video footage. Mat'l change @6.4 from PVC to VCP
Downstream	23SE28	23SE27	City	3/20/2019	117 N Circle Dr	78.1	85.8	8	VCP	BRM	No	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,146	\$ 2,146	1	1	H		Cracks, Tap Break-in @28.7', Roots in Joints, Missing about 10' of video footage. Offset @73.6'
Downstream	23SE29	23SE28	City	Left Blank on CCTV Video	130 N Pine St	112.5	178.6	8	VCP	BRM	No	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,466	\$ 4,466	4	2	H		Mat'l change from PVC to VCP @ 7'. Roots in joints. Tap Break-in/Roots @59.2' @111.8', Hole @112.5'. Missing video footage
Downstream	23SE30	23SE28	City	3/20/2019	122 N Circle Dr	174.8	182.0	8	VCP	BRM	No	Yes	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,550	\$ 4,550	0	0	H	Direction of Video appears wrong	Cracks, Roots in Joints, Broken Pipe/Roots @ 169.7'. Mat'l change to PVC @ 174.5. About 5' short of a complete video
Upstream	23SE30C	23SE30	City	3/20/2019	122 N Circle Dr	105.8	101.8	8	VCP	BRM	Yes	No	CIPP & Riser Installed	2	\$ -	\$ -	\$ -	\$ -	\$ 4,000	\$ 2,645	\$ 6,645	2	2	H		Cracks, Roots, 23SE30C is a lamphole/cleanout
Upstream	23SE30C1	23SE30	City	3/20/2019	122 N Circle Dr	96.4	99.8	8	VCP	BRM	Yes	No	No repairs needed	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3	0	H		Gasket hanging in joint, 23SE30C1 is a lamphole or cleanout
-	24SW55	24SW64	City	No Video	120 E Main St	-	340.0	10	VCP	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-	No Video
Downstream	24SW56	24SW55	City	Left Blank on CCTV Video	Vacant Lot	251.6	256.0	8	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,400	\$ 6,400	10	4	H		Cracks, Roots in Joints
Downstream	24SW57	24SW56	City	5/17/2019	138 E Shawnee St	249.6	250.0	8	VCP	BRM	Yes	No	No repairs needed	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10	2	H		Roots in Joints
-	24SW58	24SW57	City	No Video	138 E Shawnee St	209.0	209.0	8	VCP	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-	No Video
Upstream	24SW59	24SW58	City	5/15/2019	N Elm St	163.6	166.6	8	VCP	BRM	Yes	No	No repairs needed	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1	1	H		Camera underwater in spots
Downstream	24SW60	24SW59	City	5/15/2019	233 E Shawnee St	484.2	489.0	8	VCP	BRM	Yes	No	No repairs needed	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	8	3	H		Camera Underwater @484.2'
Downstream	24SW61	24SW60	City	5/14/2019	230 E Main St	159.2	160.0	8	VCP	BRM	Yes	No	No repairs needed	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	0	H		Pipe was half full of water in spots
Downstream	24SW61C	24SW61	City	5/10/2019	210 E Main St	273.6	360.0	8	VCP	BRM	No	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,000	\$ 9,000	13	3	M		Roots in Joints, Need Reverse Setup or cleaning.
Downstream	24SW62	24SW57	City	5/15/2019	127 E Washington	61.2	200.0	8	VCP	BRM	No	No	Re-televiser to get entire segment	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2	1	M		Roots in Joints, Cracks, Hole, Large Offset @60', Mat'l change from 43.1-59.6'. Need Reverse Setup
Upstream	24SW63	24SW55	City	3/14/2019	131 S Center St	45.3	200.0	8	VCP	BRM	No	No	Re-televiser to get entire segment	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	L		Offset joint @3 maybe
Downstream	24SW63	24SW63C	City	5/17/2019	N Center St	47.1	150.0	8	VCP	JLH	No	No	Re-televiser to get entire segment	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1	0	M		Only 47' was televised
-	24SW65	24SW64	City	No Video	120 E Main St	50.0	53.4	8	VCP	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-	No Video



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TELEVIEWED DIRECTION	CITY US MANHOLE	CITY DS MANHOLE	CCTV	DATE TELEVIEWED	STREET	TV PIPE LENGTH	GIS PIPE LENGTH	CCTV DIA	PIPE MATERIAL	REVIEWER	COMPLETE INSPECTION	ACTIVE I/I	RECOMMENDATION	PRIORITY	POINT REPAIR COST	REPLACE COST	NON-TYPICAL REPAIR COST	RE-CLEAN & CCTV	CLEANOUT / RISER COST	CIPP COST	TOTAL COST	# Service Connections	Defective Service Connections	Confidence Level Video is Correct (L/M/H)	Why Confidence Level is Not High	COMMENTS	
Downstream	24SW66	24SW65	City	5/10/2019	104 E Main St	356.6	370.0	8	VCP	BRM	No	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,335	\$ 1,335	13	2	M		Cracks and Roots in Joints	
-	24SW67	24SW66	City	No Video	137 E Shawnee St	300.0	300.0	8	VCP	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-	No Video	
Downstream	25NW15	25NW14	City	5/14/2019	S Center St	318.9	327.5	10	VCP	BRM	No	No	No repairs needed	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	0	H		Fine Roots in a few joints. 10' short of a complete footage.	
Downstream	25NW16	25NW15	City	5/14/2019	S Center St & Warren St	187.7	189.0	10	VCP	BRM	Yes	No	No repairs needed	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	0	H		Root in a Joint	
Downstream	25NW17	25NW16	City	5/3/2019	123 E Warren St	309.2	306.8	8	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,730	\$ 7,730	4	3	H		Roots in joints	
Downstream	25NW18	25NW17	City	5/3/2019	141 E Warren St	312.8	319.2	8	VCP	BRM	Yes	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,980	\$ 7,980	6	2	H		Cracks, Roots in joints	
Downstream	25NW19	25NW18	City	4/29/2019	221 E Warren St	430.8	419.1	8	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,770	\$ 10,770	4	0	H		Cracks, Roots in joints	
Downstream	25NW20	25NW15	City	5/8/2019	127 E Park St	403.7	399.7	8	VCP	BRM	Yes	Yes	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,093	\$ 10,093	8	5	H		Roots in Joints, Active I&I @189', Video jumps back 33' @25:27	
Downstream	25NW21	25NW20	City	5/6/2019	206 E Park St	428.6	425.0	8	VCP	JLH	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,663	\$ 6,663	16	8	M		Roots in a few joints and some cracks	
Downstream	25NW22	25NW21	City	5/3/2019	235 E Park St	325.4	323.4	8	VCP	BRM	Yes	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,135	\$ 8,135	15	10	H		Roots in Joints, Cracks, Fractures, Large offset @235.6'	
Downstream	25NW23	25NW14	City	5/9/2019	127 E Main St	428.9	409.9	8	VCP	JLH	Yes	No	No repairs needed	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	10	2	M		Couple minor cracks	
Downstream	25NW24	25NW23	City	5/9/2019	204 E Park St	54.7	409.0	8	VCP	BRM	No	No	Re-televis to get entire segment	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6	4	M		Cracks, Roots in Joints, Hole @54.7', Large Offset @54.7', Need reverse setup	
Downstream	25NW25	25NW24	City	5/8/2019	234 E Park St	419.1	409.2	8	VCP	BRM	Yes	No	Point Repair @ 376.2' from 25NW25 & CIPP	1	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,478	\$ 20,478	16	8	H		Roots in Joints, Fractures, Cracks, Point Repair @376.2'	
Downstream	26NE06	26NE02	City	4/11/2019	226 S Meadowbrook Cir	311.7	360.6	8	VCP	JLH	No	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,015	\$ 9,015	5	2	M		Light roots in some joints	
Downstream	26NE07	26NE06	City	4/11/2019	208 S Meadowbrook Cir	266.4	264.6	8	VCP	JLH	Yes	Yes	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,615	\$ 6,615	6	3	H		Cracks and roots in joints. Active infiltration in one joint with roots	
Downstream	26NE08	26NE03	City	4/23/2019	208 S Meadowbrook Cir	117.5	122.0	8	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,049	\$ 3,049	2	1	H		Cracks and a few roots in joints	
Downstream	26NE09	26NE04	City	4/11/2019	321 W Warren St	125.8	137.6	8	VCP	BRM	No	No	Point Repair @125.8' from 26NE09	1	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000	\$ 10,000	1	0	H		Large Offset @ 125.8'
Downstream	26NE10	26NE09	City	4/1/2019	345 S Meadowbrook Cir	299.2	303.3	8	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,583	\$ 7,583	3	1	H		155.8' - Fractures, Cracks	
Downstream	26NE11	26NE09	City	4/1/2019	119 S Meadowbrook Dr	385.7	379.8	8	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,643	\$ 9,643	8	2	H		135.7' - Roots Fine, minor cracks	
Downstream	26NE12	26NE11	City	4/1/2019	103 S Pine St	220.2	224.7	8	VCP	BRM	Yes	No	No repairs needed	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4	2	H		Pipe is in good condition	
Downstream	26NE13	26NE11	City	3/25/2019	343 S Poplar	194.2	193.9	8	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,855	\$ 4,855	0	0	H		crack at 116' rest of the pipe looks good	
Downstream	26NE14	26NE13	City	3/23/2019	343 S Poplar	140.9	140.1	8	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,523	\$ 3,523	0	0	H		Broken Pipe @ 138.4', rest of pipe looks good	
Downstream	26NE15	26NE04	City	4/11/2019	251 W Warren St	183.7	200.5	8	VCP	BRM	No	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,013	\$ 5,013	2	1	H		Heavy Roots in Joints, Inspection ended at Point Repair	
Downstream	26NE16	26NE15	City	4/9/2019	137 S Pine St	189.5	198.8	8	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,000	\$ 9,000	0	0	H		Roots in Joints	
Downstream	26NE17	26NE16	City	4/9/2019	117 N Pine St	296.0	326.0	8	VCP	BRM	No	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000	1	1	H		Roots in joints, Fractures	
Downstream	26NE18	26NE17	City	4/4/2019	230 W Park St	372.2	369.8	8	VCP	BRM	Yes	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,133	\$ 1,133	9	8	H		Cracks, Roots in Joints, Fractures, Very foggy , Camera underwater	
Downstream	26NE19	26NE18	City	4/4/2019	112 S Oak St	11.9	383.2	8	VCP	BRM	No	Yes	Point Repair @ 12' from 26NE19 and Re-televis to get entire segment	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	H		Something in Joint causing it to separate and infiltration gusher at joint (@12')	
-	26NE20	26NE16	City	No Video	239 W Park St	380.0	380.0	8	VCP	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-	No Video	
Downstream	26NE21	26NE20	City	4/5/2019	134 S Oak St	303.5	379.4	8	VCP	BRM	No	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,336	\$ 1,336	6	1	H		Cracks, Roots in Joints	
Upstream & Downstream	26NE22	26NE21	City	4/5/2019	134 S Oak St	378.6	379.9	8	VCP	BRM	Yes	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,250	\$ 9,250	8	2	H		Roots in Joints, Cracks, Fracture, Mat'l change @237.4 (PVC)	
Downstream	26NE23	26NE15	City	4/3/2019	235 W Warren St	297.7	299.7	8	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,500	\$ 7,500	3	1	H		Cracks, Roots in Joints	
Downstream	26NE24	26NE23	City	4/3/2019	215 W Warren St	311.4	309.6	8	VCP	BRM	Yes	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,787	\$ 8,787	4	3	H		Cracks, Roots in Joints	
Downstream	26NE25	26NE24	City	4/3/2019	153 W Warren St	287.9	289.7	8	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,198	\$ 7,198	3	1	H		Roots in Joints, Cracks, Point Repair 253.5	
Upstream	26NE26	26NE25	City	4/3/2019	153 W Warren St	243.5	250.6	8	VCP	BRM	No	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,265	\$ 6,265	2	1	H		Surface Damage, Can see MH but 5' short of complete insp	
Downstream	26NE27	25NW16	City	4/26/2019	115 W Warren St	278.6	271.7	8	VCP	BRM	Yes	No	No repairs needed	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2	0	M	Video is Mislabelled as MH25NW15	Fractures at joint	
Downstream	26NE28	26NE27	City	4/26/2019	135 W Warren St	328.9	323.3	8	VCP	BRM	Yes	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,223	\$ 8,223	7	3	H		Roots in Joints, Cracks. 2 Videos - One is mislabeled 26NE27-26NE26. Didn't pan at laterals	
Downstream	26NE29	25NW15	City	4/26/2019	126 W Warren St	226.5	399.9	8	VCP	BRM	No	No	CIPP	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,998	\$ 9,998	8	4	H		Roots in Joints, Cracks, Lateral protrudes @236.5, Need reverse setup	
Upstream & Downstream	26NE30	26NE29	City	4/26/2019	126 W Warren St	192.7	198.9	8	VCP	BRM	Yes	No	Point Repair @ 96' from 26NE30 & CIPP	1	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 4,973	\$ 14,973	4	2	H		Roots in Joints, collapsed pipe @96' at lateral connection	
Downstream	26NE31	25NW14	City	4/29/2019	120 W Park St	311.9	310.0	10	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,750	\$ 7,750	7	1	M	Video is Mislabelled as MH24NW14	Roots in Joints, Camera underwater at end of inspection.	
Downstream	26NE32	26NE31	City	4/29/2019	138 W Park St	0.8	310.0	10	VCP	BRM	No	No	Re-televis to get entire segment	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	0	M		Roots in Joint. Only traversed .8'	
Downstream	26NE33	26NE32	City	4/29/2019	150 W Park St	278.8	270.0	10	VCP	BRM	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,970	\$ 6,970	6	0	H		Roots in Joints	



Priority
 1 Active I/I and / or multiple structural defects
 2 Needs Rehabilitation but no Immediate Structural Concerns
 3 Routine Maintenance

TELEVIEWED DIRECTION	CITY US MANHOLE	CITY DS MANHOLE	CCTV	DATE TELEVIEWED	STREET	TV PIPE LENGTH	GIS PIPE LENGTH	CCTV DIA	PIPE MATERIAL	REVIEWER	COMPLETE INSPECTION	ACTIVE I/I	RECOMMENDATION	PRIORITY	POINT REPAIR COST	REPLACE COST	NON-TYPICAL REPAIR COST	RE-CLEAN & CCTV	CLEANOUT / RISER COST	CIPP COST	TOTAL COST	# Service Connections	Defective Service Connections	Confidence Level Video is Correct (L/M/H)	Why Confidence Level is Not High	COMMENTS
Upstream & Downstream	26NW27	26NE10	City	4/1/2019	345 S Meadowbrook Cir	249.5	248.3	8	VCP	JLH	Yes	No	CIPP	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,238	\$ 6,238	0	0	M	Video is Mislabeled as 26NW31	Few cracks and roots in joints
Total																					331	142				

Priority 1 Sub-Total	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 157,279	\$ 207,279
Contingency (15%)	\$ 7,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,592	\$ 31,092
Priority 1 Total	\$ 57,500	\$ -	\$ 180,871	\$ 238,371				
Priority 2 Sub-Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,000	\$ 161,331	\$ 165,331
Contingency (15%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 600	\$ 24,200	\$ 24,800
Priority 2 Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,600	\$ 185,530	\$ 190,130
Sub-Total	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 4,000	\$ 318,610	\$ 372,610
Contingency (15%)	\$ 7,500	\$ -	\$ -	\$ -	\$ -	\$ 600	\$ 47,791	\$ 55,891
Total	\$ 57,500	\$ -	\$ -	\$ -	\$ -	\$ 4,600	\$ 366,401	\$ 428,501

UTILITY ADVISORY COMMISSION STAFF REPORT

DISCUSSION ITEM #1

MEETING DATE: FEBRUARY 6, 2020

STAFF CONTACT: GONZ GARCIA, UTILITIES DIRECTOR

AGENDA ITEM: 2019 4th Quarter Electric Outage Report

Background:

Electric staff responded to 22 outages affecting 415 customers:

- 5 caused by equipment failures,
- 1 caused by trees,
- 6 caused by animals,
- 3 caused by damage by others,
- 2 caused by unknown reasons, and
- 5 caused by other reasons.

The average workday response time was 15 minutes and the average workday length of outage was 50 minutes.

The average after-hours response time was 40 minutes and the average after-hours length of outage was 1 hour and 1 minute.

The overall average response time was 31 minutes and the overall average length of outage was 56 minutes.

Attachment Included:

- 2019 4th Quarter Electric Outage Report

UTILITY ADVISORY COMMISSION STAFF REPORT

DISCUSSION ITEM #2

MEETING DATE: FEBRUARY 6, 2020

STAFF CONTACT: GONZ GARCIA, UTILITIES DIRECTOR

AGENDA ITEM: 2019 4th Quarter Wastewater Collection Repairs Report

Background:

Line maintenance staff completed 1 sanitary sewer line repair affecting 1 customer:

- 1 due to Line Failure.

The average after-hours response time was 30 minutes and the average after-hours repair time was 7 hours.

The overall average response time was 30 minutes and the overall average repair time was 7 hours.

Attachment Included:

- 2019 4th Quarter Wastewater Collection Repairs Report

4th Quarter Wastewater Collection Repair Report 2019

Period Covered: October-December 2019

Work Order #	Date	Location	Manhole #	Time Reported	Time of Arrival	Time Completed	# Customers Affected	Call out/Back-Up Due to	Comments	Response Time	Repair Time	Manhours	Line Failure	Roots	Grease	Damage by others	Unknown	Other
20191108-016	11/13/19	213 W. Warren St.	35SE04 & S5SE05	7:00 AM	7:30 AM	2:30 PM	1	Leak due to broken wye.	Replaced broken wye & inspected stub out of new sewer service.	0:30	7:00	32	1					
							1	Summary of 2019 Outages		Response Time	Repair Time	32	1	0	0	0	0	0
								0	Average After Hours	N/A	N/A							
								1	Average Workday	0:30	7:00							
								1	Average	0:30	7:00							

UTILITY ADVISORY COMMISSION STAFF REPORT

DISCUSSION ITEM #3

MEETING DATE: FEBRUARY 6, 2020

STAFF CONTACT: GONZ GARCIA, UTILITIES DIRECTOR

AGENDA ITEM: 2019 4th Quarter Water Distribution Repairs Report

Background:

Line maintenance staff completed 8 water distribution service repairs affecting 61 customers:

- 1 due to valve failures,
- 3 due to hardware failures,
- 2 due to main line failures,
- 1 due to service line failures, and
- 1 due to damage by others

The average workday response time was 19 minutes and the average workday repair time was 6 hours and 19 minutes.

The average after-hours response time was 21 minutes and the average after-hours repair time was 6 hours and 14 minutes.

The overall average response time was 20 minutes and the overall average repair time was 6 hours and 16 minutes.

Attachment Included:

- 2019 4th Quarter Water Distribution Repairs Report

4th Quarter Water Distribution Repair Report 2019

Period Covered: October-December 2019

Date	Location	Time Reported	Time of Arrival	Time Completed	# Customers Affected	Call out/Repair Due to	Comments	Response Time	Repair Time	Manhours	Valve Failure	Hardware Failure	Main Line Failure	Service Line Failure	Hydrant	Damage by others	Other
10/01/19	1199 E. Santa Fe, Lot 226	10:30 AM	10:45 AM	7:30 PM	25	Water main damage	We hit 2" water line when trying to move water service line.	0:15	9:00	28.5			1				
10/01/19	1199 E. Santa Fe, Lot 216	2:00 PM	2:20 PM	7:30 PM	25	Broken water valve.	Stem on 2" valve broke during use. Replaced w/ new 2" valve.	0:20	5:30	9	1						
10/10/19	507 S. Hickory St	7:00 AM	7:30 AM	12:30 PM	6	Replaced Fire Hydrant	Replaced outdated 2-port fire hydrant	0:30	5:30	36		1					
11/13/19	Mustang St.	5:31 PM	6:00 PM	6:30 PM	1	Contractor hit water service line.	Contractor pulled copper from setter. Fixed following morning.	0:29	0:59	1						1	
11/18/19	17221 S Walter St.	7:00 AM	7:30 AM	1:30 PM	2	Hole in service line.	Pulled a new service line under road and repaired leak.	0:30	6:30	24				1			
11/19/19	Mustang St. & Kill Creek Rd.	2:00 AM	2:21 AM	11:30 AM	0	Water main break.	8" water line had split on bottom. After locates called in, was repaired.	0:21	9:30	18			1				
12/02/19	236 N. Cherry	9:45 AM	10:00 AM	3:00 PM	1	Upgrade of meter, pit and setter.	Replaced old setter.	0:15	5:15	10		1					
12/06/19	15349 Lake Rd. #2	6:59 AM	7:00 AM	3:00 PM	1	Water leak	Replaced old setter.	0:01	8:01	21		1					
					61					147.5	1	3	2	1	0	1	0
						21	Average After Hours		0:21	6:14							
						45	Average Workday		0:19	6:19							
						66	Average		0:20	6:16							

UTILITY ADVISORY COMMISSION STAFF REPORT

DISCUSSION ITEM #4

MEETING DATE: FEBRUARY 6, 2020

STAFF CONTACT: GONZ GARCIA, UTILITIES DIRECTOR

AGENDA ITEM: Project Update – Hillsdale Water Treatment Plant Expansion

Background:

The Hillsdale Water Treatment Plant project is continuing construction with onsite RAW waterline construction, chlorine contact basin, filter building, chlorine contact basin inspections, temporary chemical feed installations, settling lagoon and other various onsite construction items have taken place since the last UAC Meeting. Land acquisition, permitting and design processes continue to occur on the project.