

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION**

**IN THE MATTER OF:**

<b>APPLICATION OF KENTUCKY-</b>	)	
<b>AMERICAN WATER COMPANY TO</b>	)	<b>CASE NO. 2023-00030</b>
<b>AMEND TARIFF TO</b>	)	
<b>REVISE QUALIFIED INFRASTRUCTURE</b>	)	
<b>PROGRAM CHARGE</b>	)	

**DIRECT TESTIMONY OF KRISTA CITRON, SENIOR PROJECT ENGINEER FOR  
KENTUCKY-AMERICAN WATER COMPANY, INC.**

**Filed: March 1, 2023**

1 I. INTRODUCTION

2 Q. Please state your name, position, and business address.

3 A. My name is Krista Citron. I am the Senior Project Engineer for Kentucky-American Water  
4 Company, Inc. (“KAW” or “the Company”). My business address is 2300 Richmond  
5 Road, Lexington, Kentucky 40502.

6 Q. Have you previously filed testimony at the Kentucky Public Service Commission  
7 (“Commission”)?

8 A. Yes. I filed written testimony before the Kentucky Public Service Commission in Case No.  
9 2021-00090, Case No. 2021-00376, Case No. 2022-00032, and Case No. 2022-00328. I  
10 also provided hearing testimony at the Commission in the June 2, 2021 hearing for Case  
11 No. 2021-00090.

12 Q. Please state your educational and professional background.

13 A. I earned my Bachelor of Science in Civil Engineering from Vanderbilt University in  
14 Nashville, Tennessee in 2007 and my Master of Science, also in Civil Engineering, from  
15 the University of Kentucky in Lexington, Kentucky in 2008. I am a registered Professional  
16 Engineer in the states of Kentucky and Tennessee.

17 I have been employed as an engineer by KAW since 2017. Prior to that, I worked  
18 at CDP Engineers in Lexington, Kentucky for 8 years as a Project Engineer, overseeing  
19 municipal water, wastewater, and stormwater improvement projects. I am an active  
20 member of the Kentucky Society of Professional Engineers (KSPE) and the KY/TN section  
21 of the American Water Works Association (AWWA).

22 Q. What is the purpose of your direct testimony?

23 A. The purpose of my testimony is to describe the proposed investment for the Qualified  
24 Infrastructure Program Rider (“QIP Rider”) approved by this Commission in KAW’s last

1 rate case (Case No. 2018-00358). I will describe the projects KAW plans to complete that  
2 are eligible for recovery under the QIP Rider. This is the fourth QIP filing so it is for QIP  
3 Rider Year 4 which is the period from July 1, 2023 to June 30, 2024. Projects for QIP  
4 Rider Year 1 were approved in Case No. 2020-00027, projects for QIP Rider Year 2 were  
5 approved in Case No. 2021-00090, and projects for QIP Rider Year 3 were approved in  
6 Case No. 2022-00032.

## 7 **II. QIP ELIGIBLE UTILITY PLANT AND PROPOSED PROJECTS**

8 **Q. Please define the categories for QIP Eligible Utility Plant.**

9 A. QIP eligible utility plant includes Distribution Infrastructure and Water Treatment  
10 Infrastructure. They are both defined terms in KAW's tariff on file with the Commission  
11 at Sheet No. 48.

12 **Q. Please describe eligible Distribution Infrastructure.**

13 A. Eligible distribution infrastructure includes distribution and transmission system structures  
14 and improvements, mains and valves installed as replacements for existing facilities;  
15 hydrants, distribution tanks; services, meters and meter installations; and power generation  
16 and pumping equipment installed as replacements for existing facilities; and unreimbursed  
17 funds related to capital projects to relocate facilities required by governmental  
18 infrastructure projects.

19 **Q. Please describe eligible Water Treatment Infrastructure.**

20 A. Eligible water treatment infrastructure includes source of supply and water treatment  
21 structures, pipe and equipment including sampling equipment, SCADA ("Supervisory  
22 Control and Data Acquisition") equipment, and power generation and pumping equipment  
23 installed as replacements for existing facilities.

1 **Q. Do the projects proposed in this case for QIP Year 4 fall under QIP Eligible Utility**  
2 **Plant categories?**

3 A. Yes. In the Commission’s June 17, 2020 order in Case No. 2020-00027, the Commission  
4 approved the “Budget Line B: QIP Mains Replaced/Restored” projects. Replacing  
5 hydrants, valves, and service lines that are **incidental** to the main replacements as part of  
6 the Budget Line B projects was also approved by the Commission. The Commission  
7 furthermore said the following related to future QIP Applications:

8 For all future QIP applications after QIP 2, the Commission finds  
9 that the amount of main replacement included in QIP projects should  
10 be consistent with the amount proposed and approved in Case No.  
11 2018-00358, and should be based on a 25-year replacement cycle.  
12 The Commission further finds that, based on the 25-year  
13 replacement cycle, Kentucky-American should limit future QIP  
14 scheduled main replacement to 10-13 miles of main replaced each  
15 year.<sup>1</sup>

16 KAW has therefore proposed only Budget Line B: QIP Mains Replaced/Restored  
17 projects in all subsequent QIP Rider cases, and is proposing only Budget Line B: QIP  
18 Mains Replaced/Restored items in this case. The total length of the proposed projects is  
19 12.01 miles. Those projects are based on a 10-13 miles per year rate to meet the 25-year  
20 replacement goal. These investments are to replace aging infrastructure that is non-revenue  
21 producing. This means infrastructure that does not produce additional revenue (no new  
22 customers). Examples of infrastructure that would produce additional revenue are main  
23 extensions for new development and new services or new meters for new customers.

24 **Q. What work is associated with Budget Line B: QIP Mains Replaced/Restored?**

25 A. The work includes the scheduled replacement, renewal or improvement of existing water  
26 mains, including valves, hydrants, and other appurtenances incidental to the water main

---

<sup>1</sup> Case No. 2021-00090, June 21, 2021 Order, p. 12.



1 replacement. Work under this line is the planned and scheduled proactive replacement of  
2 water main that has been determined to reach its useful life or is causing service problems  
3 to the adjacent area serviced by the main. Water main replaced under this line item will  
4 result in a more robust, reliable water distribution system. By replacing aging water main  
5 infrastructure on a proactive rather than reactive basis, the distribution system will provide  
6 direct customer benefits in the form of improved and sustained water quality, improved  
7 fire protection, fewer service disruptions and lower operating and maintenance costs over  
8 time.

9 KAW plans to spend approximately \$20.1M to replace various size water mains as  
10 part of 47 projects during the QIP 4 forecasted period of July 1, 2023 to June 30, 2024.  
11 KAW will replace approximately 63,415 feet or 12.01 miles of main during the period.  
12 These projects are not only important in addressing the aging infrastructure needs of the  
13 community, but they also allow for the replacement of cast iron and galvanized steel lines  
14 that are leaking or have a high potential for failure. This should help KAW to reduce its  
15 levels of “unaccounted for” water.

16 **Q. What are the proposed projects that are included with Budget Line B: QIP Mains**  
17 **Replaced/Restored?**

18 A. KAW has identified 47 projects that are outlined in Exhibit 1 and shown in Exhibit 2.

19 **Q. Why is the majority of the main being replaced cast iron?**

20 A. In Case No. 2018-00358, KAW requested approval of a QIP rider to make incremental  
21 capital improvements to replace its aging mains that otherwise would not be replaced in a  
22 timely manner. In that proceeding, the Company analyzed main break history from January  
23 2012 to December 2016. Review of the reported breaks from January 2012 to December

1 2016 indicated that main breaks on cast iron and galvanized mains represented 64% of all  
2 breaks. Since cast iron main (lined and unlined) and galvanized material only represents  
3 15.9% of the total inventory of mains in the ground, the break rate on these types of material  
4 is significantly higher than the other material in the system. The break rate per mile of  
5 main shows that cast iron main had a break rate of 1.1 breaks per mile of main compared  
6 to ductile iron, which only saw a break rate of 0.04 breaks per mile of main from January  
7 2012 to December 2016.

8 **Q. What impacts are expected from additional Line B spending in the forecast period?**

9 A. It is anticipated that removing cast iron and galvanized steel from the distribution system  
10 will help to reduce the number of water main breaks. Given the disproportionate number  
11 of breaks caused by these two pipe materials, removing cast iron and galvanized mains will  
12 have the biggest impact on the number of main breaks and help ensure the reliability of  
13 water service to KAW customers.

14 **Q. How did KAW select the projects proposed in this case?**

15 A. Projects are selected using the pipeline prioritization model along with external drivers  
16 such as paving schedules, customer impact, and other construction considerations.  
17 Combining the prioritization model results with external drivers allows KAW to maintain  
18 an adaptable replacement program which allows for the efficient use of available resources.

19 The prioritization model is updated annually. As first described in Brent O'Neill's  
20 Direct Testimony, Exhibit 2, pages 12-13, in Case No. 2018-00358, the prioritization  
21 model consists of an electronic database which is used to assess and prioritize main  
22 replacement projects. The inputs to the model consist of eight criteria which are each

1 ranked on a scale of 1 to 5 and individually weighted between 5 and 15 points out of a  
2 possible 100.

3 Please see Exhibit 3 which illustrates the ranking matrix for these eight criteria.  
4 These inputs are dynamic and are therefore updated to create the most accurate assessment  
5 of system conditions. Each year, the criteria for low pressure, number of main break/leaks,  
6 fire flow, age, water quality and customer impact need to be checked and/or updated as  
7 conditions can change resulting in a possible adjustment to the replacement priority of a  
8 given water main. The updated prioritization model itself is attached as Exhibit 4.

9 For QIP Year 4, projects were selected using additional factors which are: the  
10 pavement condition rating and coordination with upcoming LFUCG sanitary sewer  
11 projects. The pavement condition rating is a measure of how much useful life is remaining  
12 on any given section of roadway. For example, a road with twenty-five percent of its useful  
13 life left is likely in need of paving. Using Geographical Information Systems (“GIS”), the  
14 prioritization model ranking and the pavement condition rating were overlaid on a map of  
15 KAW’s infrastructure, and projects were selected from among the streets that both ranked  
16 higher on the prioritization model and were rated as having poor pavement conditions. The  
17 goal of this additional step is to identify segments of KAW’s mains that are located within  
18 roadways that are likely to be paved in the near future. This was done intentionally to better  
19 coordinate paving restoration requirements with LFUCG, and to select streets that would  
20 be good candidates for paving sharing between KAWC and LFUCG or other utilities. The  
21 timing of QIP Year 4 offered an additional opportunity to coordinate the replacement of  
22 existing cast iron mains in conjunction with two LFUCG sanitary sewer projects, on Dove

1 Run Road and Greentree Road/Court. The ability to align QIP projects with other utilities  
 2 results in more efficient construction and less disturbance to residents.

3 While QIP has focused on the replacement of cast-iron and galvanized mains, a  
 4 replacement project of 16” Pre-stressed Concrete Pipe along Rosemont Garden with new  
 5 16” ductile iron pipe has also been included. It is prudent and in the best interest of our  
 6 customers to continually evaluate the replacement of mains based on both the likelihood  
 7 of failure and consequence of failure, while also considering opportunities to find cost  
 8 savings through activities such as paving partnerships and streamlined utility replacement  
 9 planning in Rights-Of-Way. This particular section of main has experienced two recent  
 10 main breaks and has a high consequence of failure for customers due to the large main  
 11 diameter. Additionally, there is a parallel 6” cast iron water main along this same segment  
 12 of roadway dating back to 1939, and the inclusion of this replacement project will allow  
 13 KAW to eliminate the cast iron and prevent repeated main breaks on the concrete pipe. The  
 14 miles of main replaced/proposed to be replaced has been updated below.

Miles of Proposed Replacements by Material Types - QIP Years 1-5							
QIP Year	Material Type						Total by Year <sup>2</sup>
	Cast Iron	Asbestos Cement	PVC	Ductile Iron	Galvanized	Other	
1	6.2						6.2
2	14.2	0.6	0.07			0.07	14.9
3 <sup>1</sup>	12.1	0.2	0.06		0.4	0.1	12.8
4 <sup>1</sup>	12.1	0.7			0.3	0.2	13.3
5 <sup>1</sup>	12.6	0.1			0.2	0.1	13.0
Total by Type	57.2	1.6	0.13	0	0.9	0.5	

<sup>1</sup> - Specific project areas for QIP years 3-5 were identified using the method described above.

<sup>2</sup> – Some areas include parallel water mains, so the footage retired is greater than the proposed footage to be installed.

1 **Q. What is the estimated cost per foot of main proposed for the QIP Year 4 projects?**

2 A. The cost per foot of the proposal for QIP Year 4 is estimated to be \$318 per linear foot.  
3 The costs for design of the Year 4 projects and the materials orders are generally known  
4 and are reflected in this estimate, but QIP Year 4 contractor bid pricing is not yet known.  
5 Therefore, the approximate cost per linear foot for construction and restoration is an  
6 estimate based on the most recent QIP Year 3 project bids from contractors.

7 **Q. What steps has KAW taken to control the cost-per-foot of main replaced?**

8 A. For QIP Year 4 projects, KAW has chosen several of the more complex project areas. The  
9 water mains in these areas are among the oldest still remaining in the system, and their  
10 location in heavily trafficked downtown areas makes them more difficult to replace. Thus,  
11 the cost per linear foot for the QIP Year 4 projects is higher on average than prior years.

12 Among the QIP Year 3 projects, two were identified as candidates for the new water  
13 main to be installed in the utility strip or beneath the sidewalk. While the concrete and  
14 driveway/sidewalk restoration costs for these types of projects may be more than initially  
15 estimated, reducing the amount of pavement disturbed is expected to offset the estimated  
16 cost significantly. Moving into QIP Year 4 projects, the engineering design firms were  
17 instructed to evaluate each project for the potential to utilize the utility strip or sidewalk  
18 areas rather than the roadway. KAW will review the final costs for these projects compared  
19 to the estimated costs had they been installed under pavement.

20 KAW continues to utilize national contracts that leverage American Water Works  
21 Service Company's ("Service Company") volumes to secure discounts and thus minimize  
22 cost increases for material such as piping, fittings, and service line materials. In addition,  
23 we can leverage our scale to have the shortest delivery lead times in the industry. Because

1 of the supply chain challenges facing KAW and the construction industry in general, KAW  
2 has proactively sought out and secured the materials needed for QIP Year 4 projects on the  
3 most economical terms available to ensure that materials would be available when projects  
4 were ready to begin construction, and to minimize cost increases. This proactive approach  
5 also helps to ensure KAW can complete all proposed QIP Year 4 projects in a timely  
6 manner and in accordance with the proposed schedule at a lower cost. However, material  
7 costs have increased and are anticipated to continue to increase, by as much as 12-50  
8 percent for direct materials such as hydrants, service line, and pipe.

9 KAW has also expanded our list of bidders for QIP projects. We continue to  
10 proactively seek out additional contractors and have executed two new paving and  
11 restoration contracts. The contractors and their contact information are listed in Exhibit 5.

12 Regarding utility coordination with external entities, KAW has continued to engage  
13 with other utilities to determine if there are opportunities to coordinate our construction.  
14 The maps in the attached Exhibit 2 are distributed to other utilities for their review. In  
15 several cases, KAW has learned of a planned replacement project for another utility and  
16 we have been able to successfully work around each other's schedules.

17 KAW has continued to work with LFUCG to identify ways to improve coordination  
18 on pavement restoration. These efforts are explained in more detail below.

19 **Q. Has the recent inflation trend affected the cost of KAW's QIP projects, and, if so,**  
20 **what steps has KAW taken to minimize those effects?**

21 A. KAW has been subject to rising costs in several areas. The cost of materials has been  
22 impacted not just by inflation, but also by shortages and shipping delays, explained in more  
23 detail below. The average cost-per-foot of project design work performed by consultants

1 as well as of construction work performed by contractors have also risen year over year.  
2 KAW has worked to minimize these effects by bundling projects on adjacent streets or in  
3 the same geographical areas. This allows design firms to provide better pricing for tasks  
4 that can be performed concurrently—such as survey work—instead of providing a separate  
5 price for each individual street. The same process applies to construction contractors as  
6 well. By bundling projects in the same vicinity, contractors can mobilize equipment to one  
7 primary location instead of several different locations, ultimately reducing the overall  
8 costs.

9 **Q. Have KAW's QIP projects been affected by the current global supply chain**  
10 **challenges, and, if so, what steps has KAW taken to minimize those effects?**

11 A. Yes, global supply chain and transportation issues continue to be challenging. KAW  
12 experienced a significant increase in delivery lead times and pricing increases in 2021.  
13 KAW has worked diligently with supply chain and vendors on reducing material lead  
14 times, accepting partial deliveries, working with alternative suppliers, and placing material  
15 orders for QIP work sufficiently in advance. KAW modified designs to accept the  
16 installation of 6" diameter pipe in lieu of 4" pipe, as the 4" diameter pipe is more costly  
17 and had significantly longer lead times. The Service Company supply chain group has  
18 diligently worked with vendors and suppliers to obtain favorable commitments for  
19 materials cost and delivery, helping to ensure that the cost effects to KAW are minimized.

20 **Q. Part of KAW's cost-per-foot is the expense of pavement restoration that must be**  
21 **performed after KAW replaces a main in a public road. What specifically has KAW**  
22 **done to control and minimize its pavement restoration expense in QIP Year 3 projects**  
23 **and what is KAW going to do to control those costs in QIP Year 4?**

1 A. The paving restoration requirements on public roadways within Lexington are outlined in  
2 LFUCG’s Chapter 17C of the Code of Ordinances and in the Standard Drawings, of which  
3 200, 201-1, 201-2, 201-4, 300, 301, 302, 303, 304, 307-1, 307-2 primarily relate to 17C.  
4 While general details and guidance are outlined in these documents, the restoration  
5 requirement is ultimately determined post construction, immediately prior to paving, based  
6 on the judgment of the LFUCG representative. KAW recognizes that beneficial  
7 partnerships with LFUCG and coordination with other utilities through effective  
8 communication, planning, performance, and continuous process improvement is critical to  
9 reducing paving costs. While we have not realized a significant quantifiable reduction in  
10 paving costs yet, KAW continues to focus on this issue. Throughout the implementation  
11 of QIP Year 3 and in development of QIP Year 4 projects, KAW continues to engage  
12 LFUCG at multiple levels of business and government to advocate for judicious paving  
13 requirements and to find opportunities for efficiencies towards the minimization of paving  
14 costs to KAW ratepayers through the following activities:

- 15 • LFUCG Utility Coordination Committee Meetings (“UCCM”): KAW staff attends every  
16 UCCM meeting. During these meetings, KAW presents our list of upcoming planned  
17 replacement projects and seeks input from other utilities present. In part due to KAW’s  
18 feedback, future UCCM meetings will be more project- and coordination-focused between  
19 utilities and LFUCG in executing and planning the replacement program projects, with the  
20 goal to minimize paving costs and construction disruptions, while still maintaining  
21 maintained safe, quality roadways for the community.
- 22 • Paving Share Agreement: KAW, together with other utilities, has requested consideration  
23 of LFUCG completing the paving using their contractor and pricing. A draft of this



1 agreement is currently under review by LFUCG, but the anticipated outcome is a formal  
2 method for utility companies and LFUCG to identify the areas where a pave-share makes  
3 sense and to quantify the percentages of restoration responsibility. KAW advocated for the  
4 pre-existing LFUCG pavement rating to be considered as part of the post construction  
5 restoration requirements in an effort to align the paving restoration to the 5-foot trench  
6 width detail in the LFUCG Standard Details (for roadways over a certain paving rating).  
7 The paving condition rating is a factor KAW has considered during the planning process.  
8 While the utilization of the pavement rating to move towards a more standard, cost-  
9 sensitive, approach in establishing the restoration extents is not currently utilized, the  
10 consideration of the paving rating in planning is beneficial in coordinating partnering  
11 opportunities for the LFUCG paving pilot mentioned above.

- 12 • Project Coordination Meetings: LFUCG also hosts bi-monthly project coordination  
13 meetings for their storm and sanitary sewer departments. KAW staff attends every one of  
14 these meetings and provides information about upcoming projects or coordination needs.  
15 The project coordination meetings have been beneficial to find opportunities to cost share  
16 on paving with other utilities and are necessary to coordinate construction timing. While  
17 KAW has requested a future LFUCG paving list to align our project planning with  
18 opportunities to complete main replacements in streets already planned to be paved within  
19 LFUCG's budget, due to LFUCG's budget timing this list is not available prior to  
20 establishing the QIP project list. Therefore, KAW's project list has been a primary driver  
21 for cost sharing opportunities.
- 22 • Weekly Paving Meeting: During the months that the asphalt plants are open and operating,  
23 LFUCG and LFUCG's designated paving contractor host weekly meetings to review what

1 streets will be paved that week. KAW staff regularly attends these meetings and shares  
2 information within KAW and from KAW back to LFUCG and the paving contractor. The  
3 content of these meetings is focused on near-term paving, not long-term planning.

- 4 • Utilization of Pavement Rating in Project Planning: As previously discussed, KAW  
5 utilized the pavement rating from LFUCG in conjunction with the pipeline prioritization  
6 model in order to select streets that were both highly ranked in the model and likely to need  
7 new pavement within the next few years. This allows KAW to be as cost-efficient as  
8 possible with the selection of the project list regarding final pavement and restoration  
9 requirements. Furthermore, KAW has engaged several relevant departments within  
10 LFUCG earlier in our planning process. The group includes Streets & Roads, Engineering,  
11 and Water Quality. At the time the initial list of projects is identified, the list is shared with  
12 this group from LFUCG and they have the opportunity to provide any comments, feedback,  
13 or coordination suggestions. This step has already provided multiple benefits by allowing  
14 us to accelerate or delay proposed projects based on upcoming LFUCG work, and it has  
15 been the primary means by which we have identified streets that are eligible for paving  
16 sharing with LFUCG.

- 17 • Utility Partnering Opportunities: Once QIP projects have been identified in the planning  
18 phase, the maps and locations are shared with other utilities, such as Columbia Gas.  
19 Columbia Gas does the same, sharing their planned projects with KAW. This allows KAW  
20 to determine if other utilities have upcoming projects in the same vicinity. In several cases,  
21 we have been able to coordinate our construction schedules in these areas to minimize the  
22 disruption to residents. This information-sharing has also helped highlight some streets that  
23 may need to be moved up or down on the priority ranking based on other utilities' planned

1 work. Additionally, KAW and other utilities regularly share construction plans on shared  
2 streets so that all parties can ensure, where possible, that their intended route does not create  
3 new points of conflict.

- 4 • QIP Project Walkthroughs and Reviews: For every QIP main replacement project, the site  
5 is walked and reviewed by LFUCG's inspector along with the KAW construction  
6 representative and contractor. The final paving and restoration requirements are defined  
7 during this site walkthrough. KAW requested a pre-construction walkthrough to establish  
8 an anticipated restoration scope, but because the 17-C ordinance is performance-based and  
9 relies heavily on the actual disturbance areas post construction, a determination of this  
10 nature was deemed premature. To help KAW, our design firms, and our contractors better  
11 anticipate and estimate the disturbance limits of the QIP projects, LFUCG's Municipal  
12 Senior Engineer for the Division of Engineering has provided training on the 17-C  
13 ordinance and associated design documents and paving policies to all involved. KAW has  
14 implemented this training as an annual requirement for our design firms and contractors  
15 that work on QIP projects.
- 16 • KAW Paving Pilot: Beginning with some of the QIP Year 2 projects and continuing  
17 through present, KAW has been piloting the use of a third-party paving contractor for all  
18 final restoration and paving activities. The goal of this pilot is to evaluate the effectiveness  
19 and efficiency of using a single paving contractor to provide all the final restoration,  
20 regardless of the selected contractor for the main installation work. This will also benefit  
21 KAW and LFUCG with a single point of contact for any paving and restoration concerns  
22 and provide consistency in process and paving performance. KAW has also executed an

1 agreement with a second paving and restoration contractor to provide supplementary  
2 assistance on QIP projects.

3 **Q. Please provide a status report of the progress KAW has made in completing the**  
4 **projects the Commission approved in Case No. 2022-00032 (the QIP Year 3 case).**

5 A. As of January 2023, approximately 5.5 miles of the QIP Year 3 projects are in-service, and  
6 another 7.0 miles are currently under construction or expected to begin construction over  
7 the next month. All projects are expected to be in-service prior to the end of the QIP Year  
8 3 on June 30, 2023 with three exceptions: Greenwood Avenue, Bradley Court, and  
9 Edinburgh Court. These roadways, totaling approximately 0.3 miles of QIP Year 3  
10 replacements, were paved by LFUCG during the 2022 paving season and as such, KAW is  
11 unable to disturb the new pavement for a minimum of 12 months pursuant to LFUCG  
12 Ordinance 17C-19(e)(5). A summary of the in-service QIP Year 2 and QIP Year 3 projects  
13 is included in Exhibit 6.

14 **Q. Does KAW's Application in this case comply with the Commission's Order in Case**  
15 **No. 2022-00032 to include "end-of-period" updates to QIP Rider Year 3 projects**  
16 **which reflect actual construction costs occurred as of January 31, 2023 and forecasted**  
17 **construction costs for the remaining five months (February 1, 2023-June 30, 2023)?**

18 A. Yes. KAW has included actual construction costs through January 31, 2023 in its  
19 calculations for this filing. For QIP Year 2 projects, those amounts include post-in-service  
20 spend that has occurred between July 1, 2022 and January 31, 2023. For QIP Year 3  
21 projects, those amounts include actual in-service spend between July 1, 2022 and January  
22 31, 2023 as well as forecasted construction costs for work that will occur between February  
23 1, 2023 and June 30, 2023. A summary of the in-service QIP Year 2 and QIP Year 3

1 projects is included in Exhibit 6. Forecast costs were based on current material prices, bid  
2 numbers (where known), and quotes for paving (where known).

3 **IV. CALCULATION OF QIP PERCENTAGE**

4 **Q. What witness is responsible for the calculation of the QIP Rider amount that results**  
5 **from these infrastructure improvements?**

6 A. KAW witness Jeffrey Newcomb covers the calculation of the requested QIP Rider amount  
7 in his direct testimony.

8 **III. CONCLUSION**

9 **Q. What is your recommendation for the Commission?**

10 A. I recommend that the Commission approve this petition for the QIP Rider amount as  
11 proposed.

12 **Q. Does this conclude your testimony?**

13 A. Yes, it does.

VERIFICATION

COMMONWEALTH OF KENTUCKY )  
 ) SS:  
COUNTY OF FAYETTE )

The undersigned, Krista Citron, being duly sworn, deposes and says that she is the Senior Project Engineer for Kentucky-American Water Company, that she has personal knowledge of the matters set forth in the foregoing testimony and that the answers contained therein are true and correct to the best of her information, knowledge and belief.

Krista Citron  
Krista E. Citron

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 1st day of March, 2023.

Molly McCleese Van Over  
Notary Public

My Commission Expires:  
July 31, 2025  
ID # KYNP26988

MOLLY MCCLEESE VAN OVER  
NOTARY PUBLIC  
COMMONWEALTH OF KENTUCKY  
ID # KYNP26988  
MY COMMISSION EXPIRES JULY 31, 2025

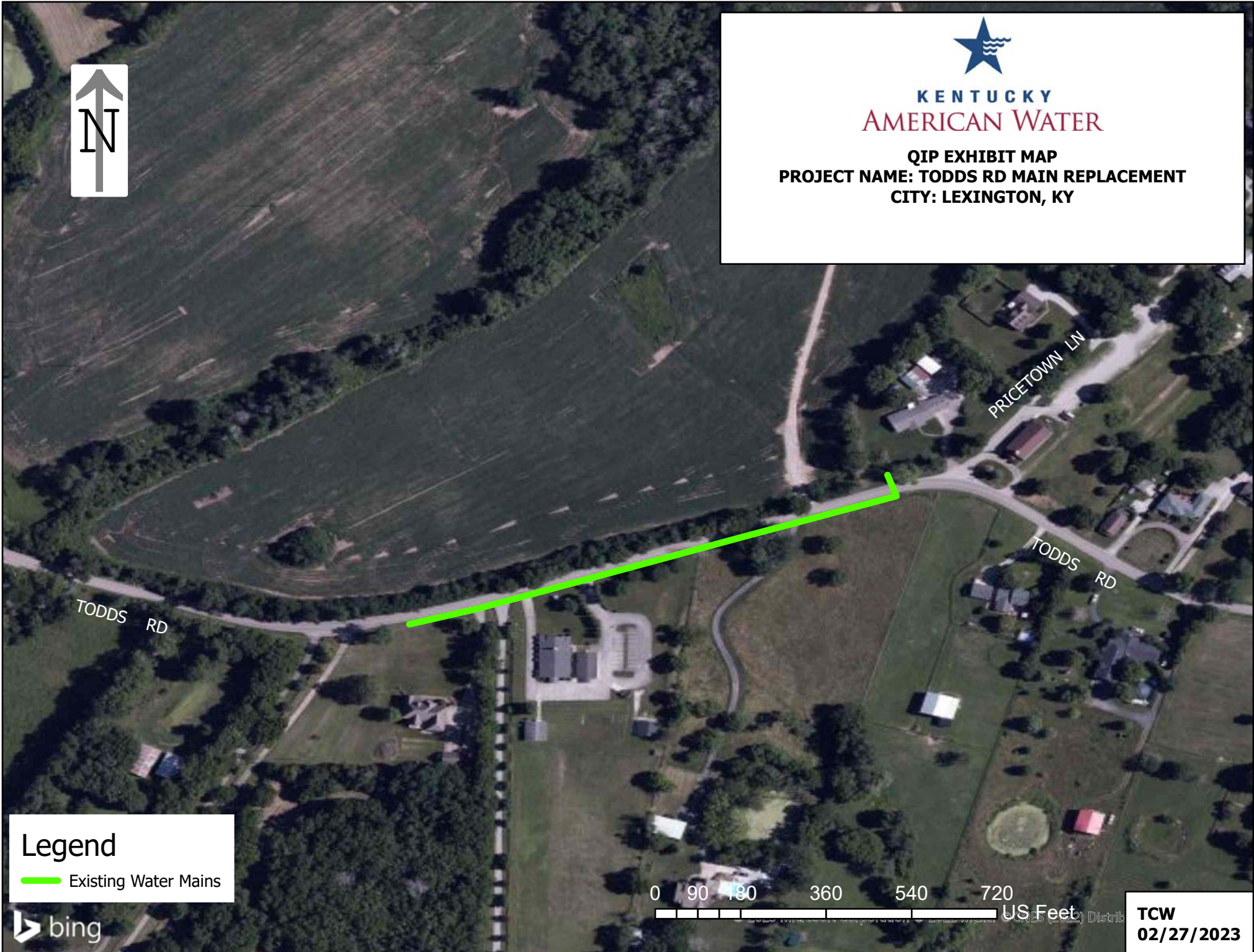
#	NAME	WBS NUMBER	LOCATION	PROJECT LENGTH (FT)	PRIORITIZATION MODEL RANKING	PAVEMENT RATING	O'NEILL EXHIBIT 2	< 4" Main			4" Main			6" Main			8" Main			≥ 12" Main			# BREAKS (PAST 10 YEARS)	
								Est. Linear Feet Retired	Est. Age of Main Retired	Material Type	Est. Linear Feet Retired	Est. Age of Main Retired	Material Type	Est. Linear Feet Retired	Est. Age of Main Retired	Material Type	Est. Linear Feet Retired	Est. Age of Main Retired	Material Type	Est. Linear Feet Retired	Est. Age of Main Retired	Material Type		
1	Todds Road @ Pricetown Ln	R12-02B2.23-P-0002	FAYETTE	850	270	40%-55%		850	1955	CI/Galv													1	
2	Samuel Ln	R12-02B2.23-P-0003	FAYETTE	575	305	25%-40%	Year 3 - Project 2	575	1957	CI													0	
3	Uhlran Ct	R12-02B2.23-P-0004	FAYETTE	390	280	0%-10%	Year 1 - Project 26	390	1937	CI													2	
4	Adair/Madison/Gess (Owenton)	R12-30B2.23-P-0002	OWEN	2215	300/300/285	40%-55%		855	1969	Galv	435	1969	CI	925	1969	CI							6	
5	Strathmore Rd	R12-02B2.23-P-0006	FAYETTE	970	275	40%-55%	Year 1 - Project 20	970	1936	CI													0	
6	Eastin Rd/Grandin Rd	R12-02B2.23-P-0007	FAYETTE	1000	265/275	55%-70%								1210	1936	CI							3	
7	Ranier Dr	R12-02B2.23-P-0008	FAYETTE	715	250	55%-70%								1000	1952	AC							0	
8	Sulphur Ln	R12-02B2.23-P-0009	FAYETTE	730	285	55%-70%	Year 2 - Project 15	730	1955	CI				715	1958	CI							0	
9	N Cleveland Rd	R12-02B2.23-P-0010	FAYETTE	2620	310	40%-55%		2620	1955	CI													2	
10	Centerville Ln/Boone Ln	R12-02B2.23-P-0011	FAYETTE	1865	280/285	10%-25%	Year 2 - Project 9	1865	1955	CI													0	
11	Dove Run Rd	R12-02B2.23-P-0012	FAYETTE	930	200	55%-70%								264	1970	CI	666	1970	CI				0	
12	Greentree Rd/Cir/Ct	R12-02B1.22-P-0004	FAYETTE	5765	260/310/280	10%-25%	Year 3 - Project 35	600	1967	CI				500	1967	CI	3820	1967	CI	845	1967	CI	14	
13	Campsie Pl/Ct	R12-02B2.23-P-0014	FAYETTE	775	280	25%-40%					260	1906	CI	515	1906	CI							0	
14	Ohio St	R12-02B2.23-P-0015	FAYETTE	1575	260	40%-55%								800	1905	CI							0	
15	Johnson Ave	R12-02B2.23-P-0016	FAYETTE	780	255	25%-40%								775	1915	CI							0	
16	Silver Maple Way	R12-02B2.23-P-0017	FAYETTE	795	265	25%-40%								780	1902	CI							0	
17	E Seventh St - N Lime to Maple	R12-02B2.23-P-0018	FAYETTE	1190	260	25%-40%											795	1901	CI				0	
18	Bermuda Ave	R12-02B2.23-P-0019	FAYETTE	605	255	40%-55%		605	1938	CI				1190	1900s	CI							1	
19	Locust Ave	R12-02B2.23-P-0020	FAYETTE	1760	280	25%-40%					1100	1911	CI	1265	1938	CI							2	
20	Old Leestown	R12-02B2.23-P-0021	FAYETTE	1790	275	55%-70%		1790	1949	CI													4	
21	Curley Ave	R12-02B2.23-P-0022	FAYETTE	345	240	40%-55%								345	1897	CI							0	
22	Wilson St - Curley to Eastern	R12-02B2.23-P-0023	FAYETTE	402	230	40%-55%								402	1897	CI							0	
23	Corral St - Elm Tree to Race	R12-02B2.23-P-0024	FAYETTE	1033	260	25%-40%								733	1905	CI							0	
24	E Second St - Elm Tree to Race	R12-02B2.23-P-0025	FAYETTE	1120	250	55%-70%								300	1927	CI							1	
25	Eastern Ave - E Third to before E Short	R12-02B2.23-P-0026	FAYETTE	1100	230	40%-55%								80	1884	CI							0	
26	Gunn St	R12-02B2.23-P-0027	FAYETTE	488	255	25%-40%	Year 1 - Project 8	100	1926	CI				300	1903	CI								0
27	Caulder Rd	R12-02B2.23-P-0028	FAYETTE	1235	215	70%-85%											1100	1884	CI				0	
28	Keeneland Ct	R12-02B2.23-P-0029	FAYETTE	785	235	55%-70%	Year 3 - Project 10	300	1961	CI				388	1926	CI	1235	1961	CI				1	
29	Hot Springs Ct	R12-02B2.23-P-0030	FAYETTE	710	235	40%-55%	Year 3 - Project 10	185	1961	CI				485	1961	CI							0	
30	Hialeah Ct	R12-02B2.23-P-0031	FAYETTE	714	235	55%-70%	Year 3 - Project 10	212	1961	CI				525	1961	CI							0	
31	Niagara (to Trout) and Trent (intersect to inte)	R12-02B2.23-P-0032	FAYETTE	4027	225	10%-25%	Year 4 - Project 17	307	1972	CI				502	1961	CI							0	
32	Maryland Ave	R12-02B2.23-P-0033	FAYETTE	1144	250	25%-40%								262	1972	CI	3088	1972	CI	370	1980	CI	1	
33	W Second St (Old Gtown to Jefferson)	R12-02B2.23-P-0034	FAYETTE	916	250	25%-40%								300	1902	CI							2	
34	Jefferson St (W Short to W Third)	R12-02B2.23-P-0035	FAYETTE	1775	230	70%-85%								575	1893	CI	552	1966	CI				0	
35	Tower Plz	R12-02B2.23-P-0036	FAYETTE	412	230	55%-70%								254	1903	CI							0	
36	Delmar Ave/Boonesboro Ave/Bell Pl/Bell Ct	R12-02B2.23-P-0037	FAYETTE	2281	235/265	25%-40%								172	1884	CI	621	1929	CI				0	
37	Russell Ave/E & W Bell Cts/Sayre Ave	R12-02B2.23-P-0038	FAYETTE	3380	275	0%-25%	Year 1 - Project 1	150	1904	CI	700	1904-1905	CI	462	1884	CI	1475	1909-1910	CI				0	
38	Forest Ave/Skain St/Indiana Ave	R12-02B2.23-P-0039	FAYETTE	2658	250/210/245	55%-70%								300	1902	CI	516	1969	CI				1	
39	Cross St	R12-02B2.23-P-0040	FAYETTE	400	230	25%-40%											526	1972	CI				0	
40	Pine St	R12-02B2.23-P-0041	FAYETTE	2040	275	25%-40%	Year 5 - Project 38				700	1884	CI	190	1910	CI				420	1947	AC	0	
41	Merino St	R12-02B2.23-P-0042	FAYETTE	753	235	55%-70%	Year 5 - Project 30							600	UNK	CI				2050	1947	AC	2	
42	Patterson St	R12-02B2.23-P-0043	FAYETTE	691	230	55%-70%								753	1884	CI							1	
43	Spring St	R12-02B2.23-P-0044	FAYETTE	377	230	40%-55%								691	1910	CI							0	
44	Dunaway St	R12-02B2.23-P-0045	FAYETTE	632	235	40%-55%								377	1903	CI							0	
45	Maxwell (Broadway to Cross)	R12-02B2.23-P-0046	FAYETTE	2042	230	55%-70%								632	1900s	CI							0	
46	Old Sweet Owen	R12-30B1.21-P-0002	OWEN	3000	275	55%-70%		3394	1969	CI/Galv							2042	1884	CI				0	
47	Rosemont Garden	R12-02B2.23-P-00XX	FAYETTE	1060	235	55%-70%								1000	1939	CI				1060	1955	PCCP	4	





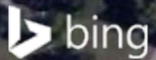
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: TODDS RD MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

Existing Water Mains



0 90 180 360 540 720 US Feet

TCW  
02/27/2023





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: SAMUEL LN MAIN REPLACEMENT  
CITY: LEXINGTON, KY



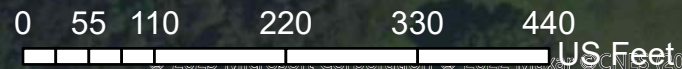
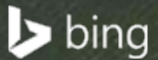
HUFFMAN MILL PIKE

HUFFMAN MILL PIKE

SAMUEL LN

### Legend

 Existing Water Mains



TCW  
02/27/2023





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: UHLAN CT MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



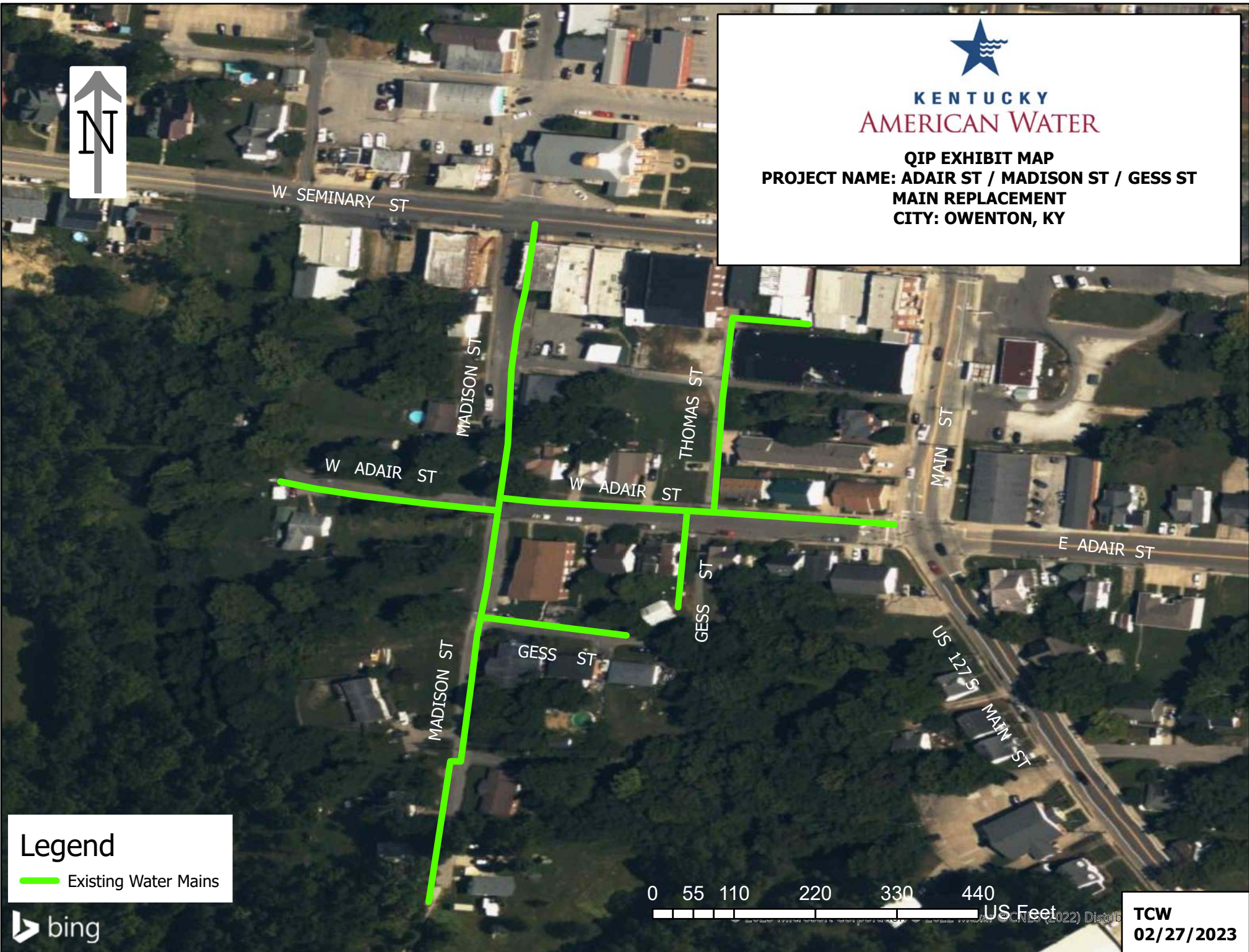
TCW  
02/27/2023





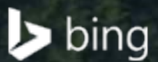
**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP  
PROJECT NAME: ADAIR ST / MADISON ST / GESS ST  
MAIN REPLACEMENT  
CITY: OWENTON, KY**



**Legend**

 Existing Water Mains



**TCW  
02/27/2023**





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: STRATHMORE RD MAIN REPLACEMENT  
CITY: LEXINGTON, KY



BROOKMEADE DR

EASTIN RD

MARIEMONT DR

GRANDIN RD

STRATHMORE RD

MANHATTAN DR

BRYAN STATION RD

### Legend

 Existing Water Mains



US Feet

TCW  
02/27/2023








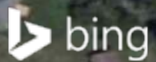
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: EASTIN RD / GRANDIN RD  
MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



0 90 180 360 540 720

US Feet

TCW  
02/27/2023





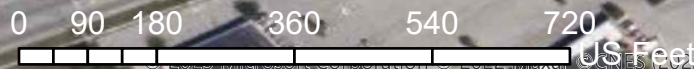
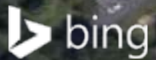
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: RANIER DR MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



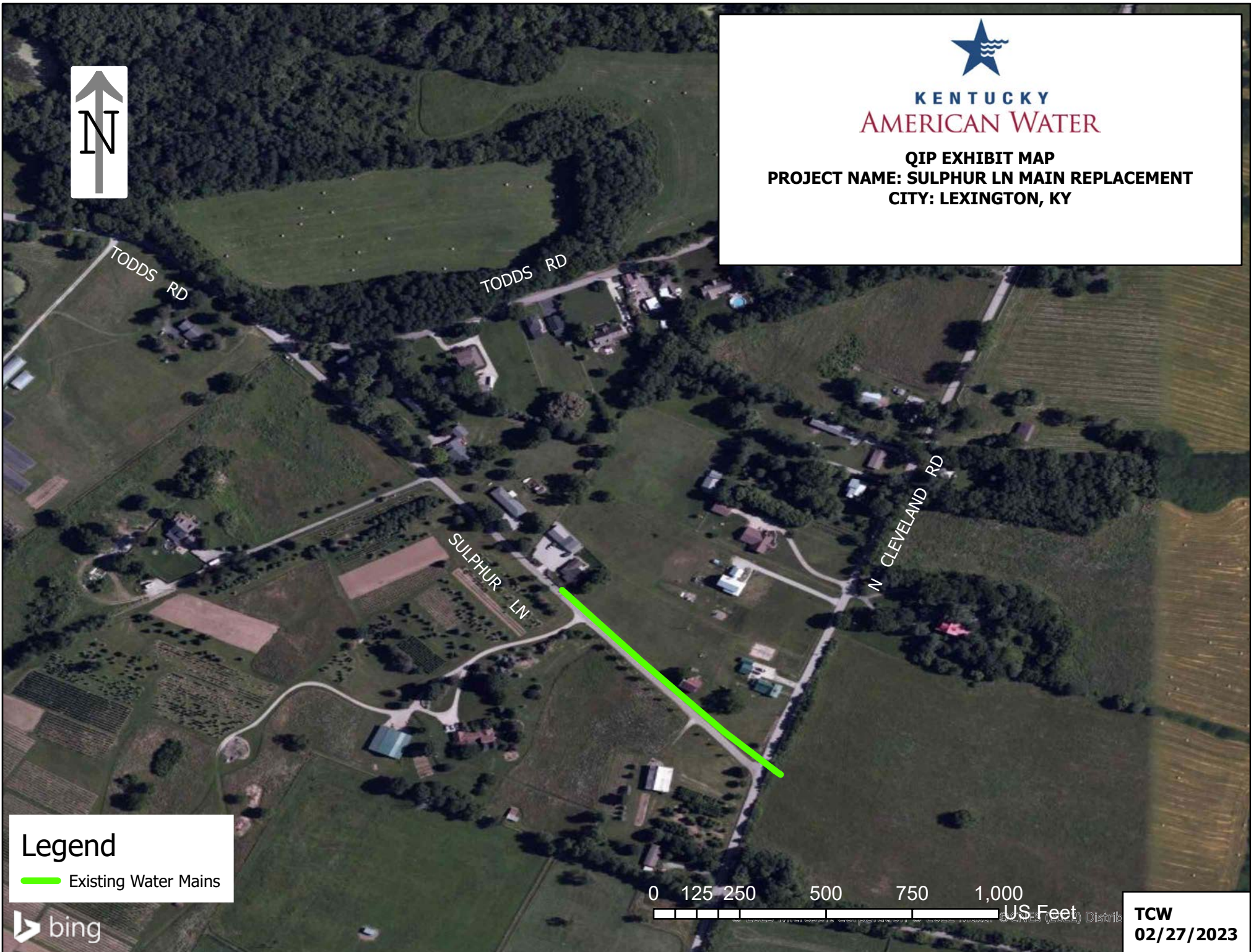
TCW  
02/27/2023





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: SULPHUR LN MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



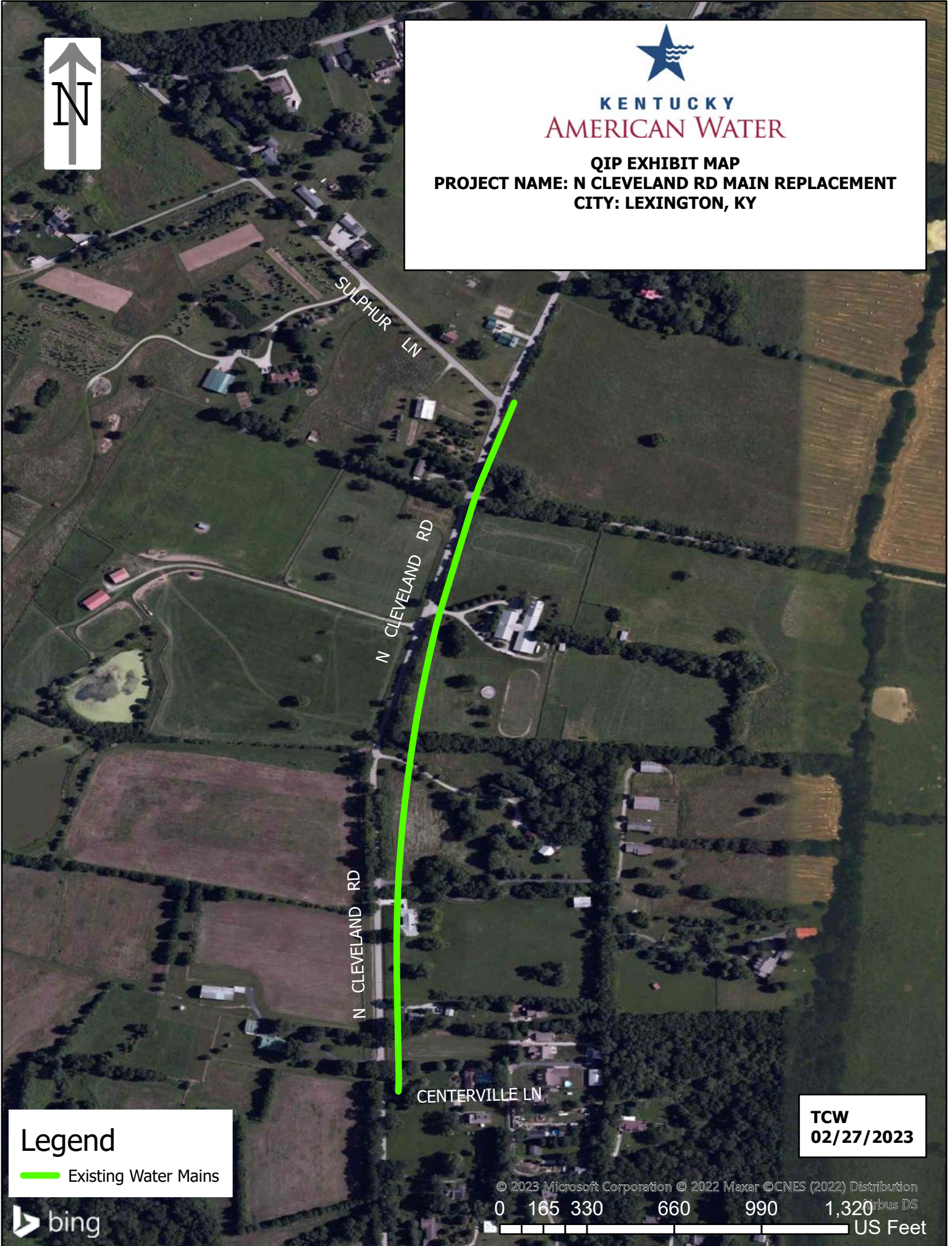
TCW  
02/27/2023





KENTUCKY  
AMERICAN WATER

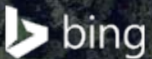
QIP EXHIBIT MAP  
PROJECT NAME: N CLEVELAND RD MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains

TCW  
02/27/2023



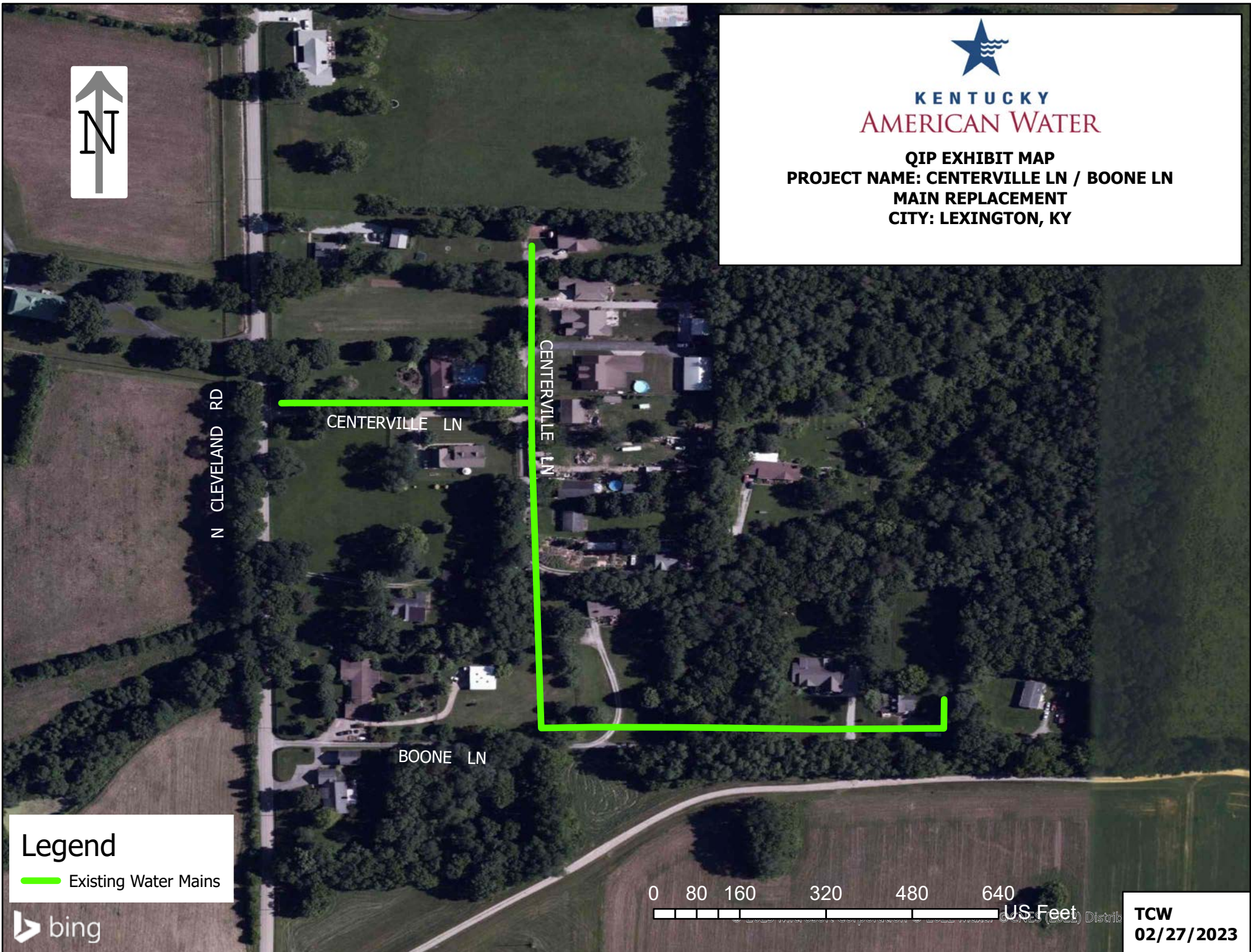
© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distribution  
0 165 330 660 990 1,320 US Feet



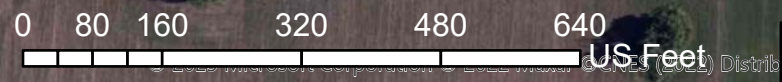


KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: CENTERVILLE LN / BOONE LN  
MAIN REPLACEMENT  
CITY: LEXINGTON, KY



**Legend**  
— Existing Water Mains



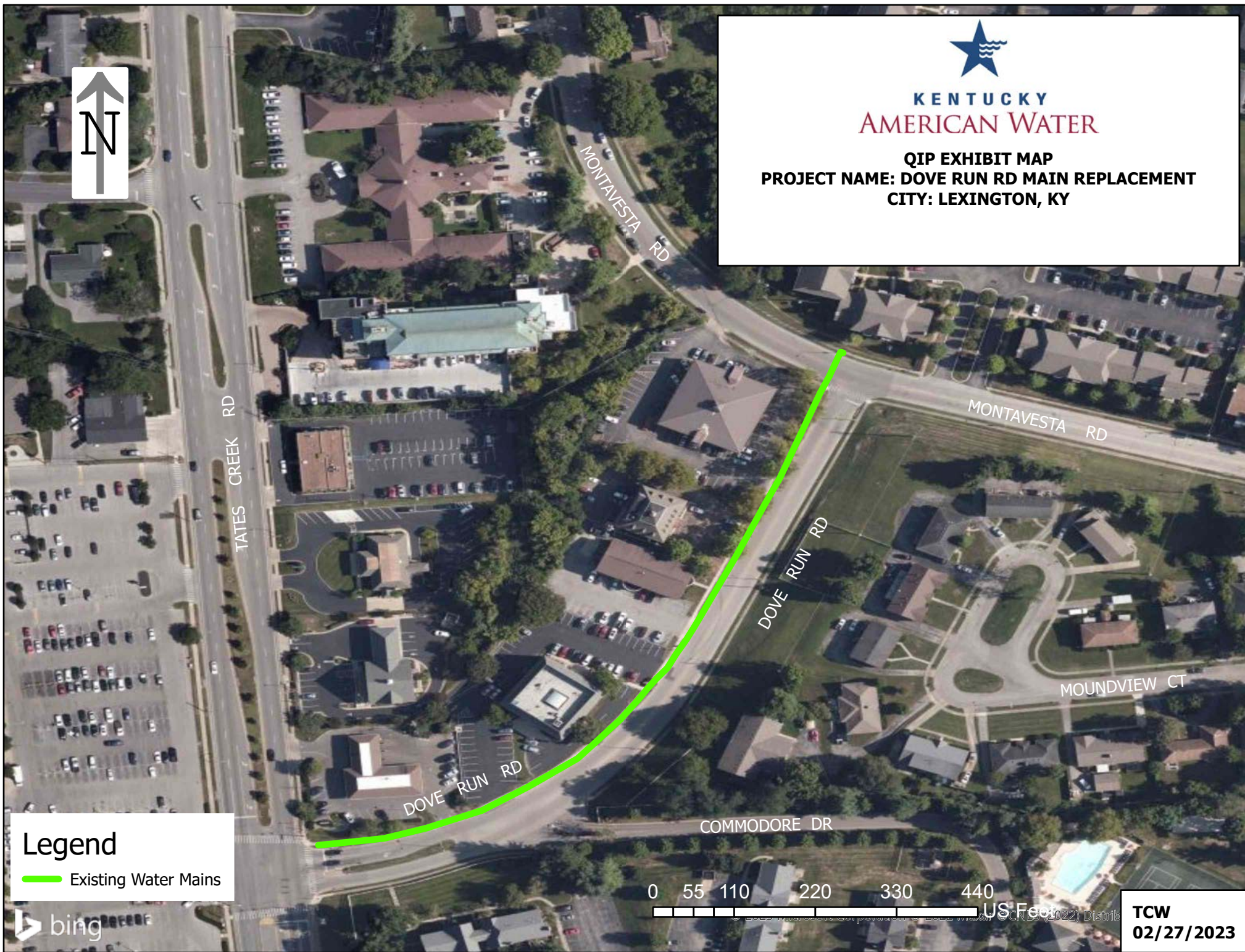
TCW  
02/27/2023





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: DOVE RUN RD MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains

0 55 110 220 330 440

US Feet

TCW  
02/27/2023






KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP**  
**PROJECT NAME: GREENTREE RD / GREENTREE CIRCLE /**  
**GREENTREE PL / GREENTREE CT MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**TCW**  
**02/27/2023**

**Legend**

-  Existing Water Mains







**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP  
PROJECT NAME: CAMPSIE PL / CAMPSIE CT  
MAIN REPLACEMENT  
CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



0 65 130 260 390 520

US Feet

**TCW  
02/27/2023**





**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP  
PROJECT NAME: OHIO ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



0 85 170 340 510 680

US Feet

**TCW  
02/27/2023**





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: JOHNSON AVE MAIN REPLACEMENT  
CITY: LEXINGTON, KY



### Legend

 Existing Water Mains



TCW  
02/27/2023





**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP  
PROJECT NAME: SILVER MAPLE WAY  
MAIN REPLACEMENT  
CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



**TCW  
02/27/2023**





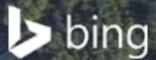
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: E SEVENTH ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



TCW  
02/27/2023





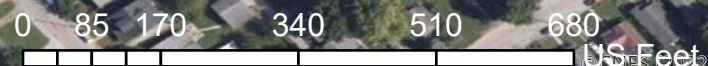
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: BERMUDA AVE MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



US Feet

TCW  
02/27/2023





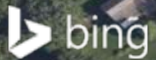
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: LOCUST AVE MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



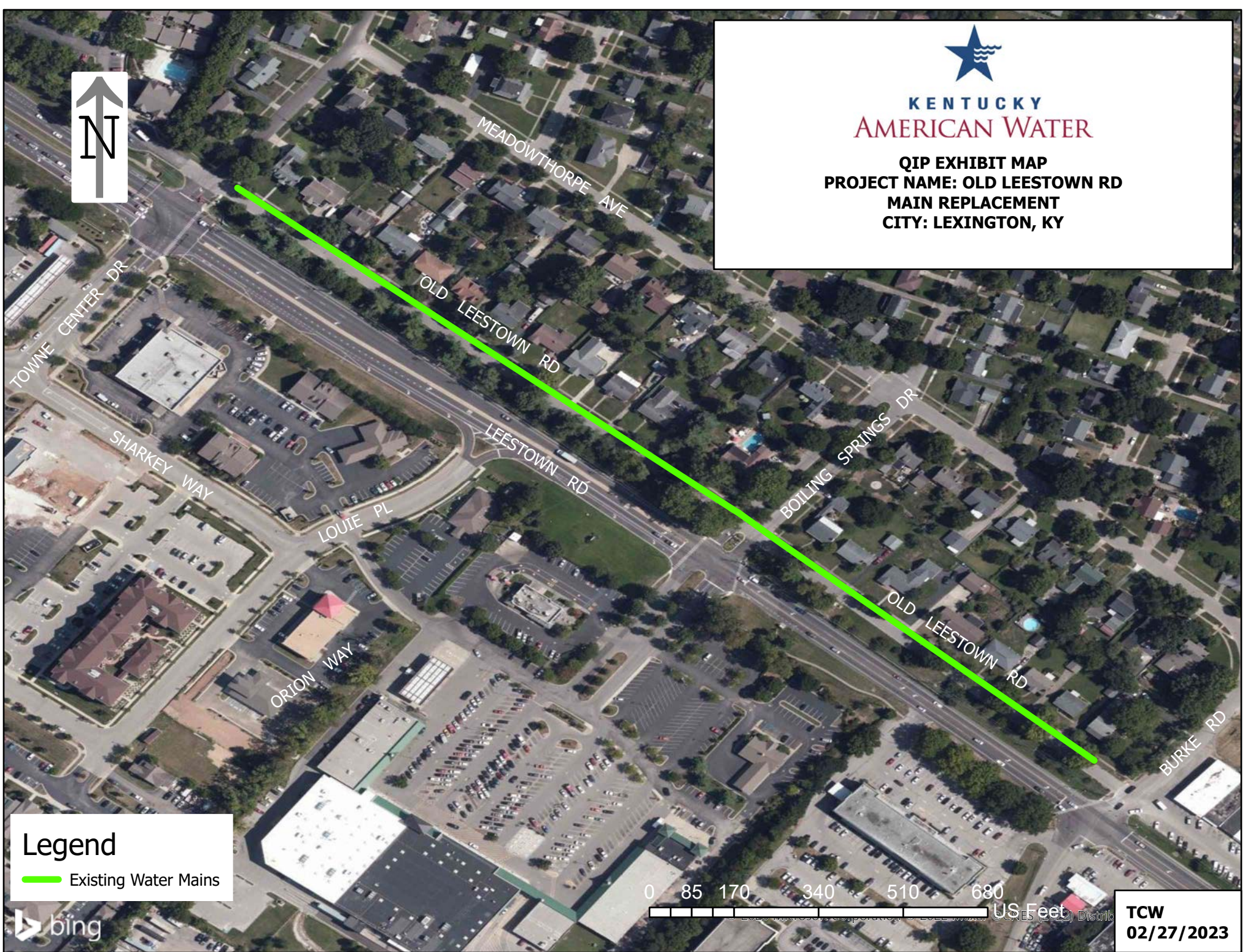
TCW  
02/27/2023





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: OLD LEESTOWN RD  
MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



TCW  
02/27/2023





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: CURLEY AVE MAIN REPLACEMENT  
CITY: LEXINGTON, KY



ELM TREE LN

WILSON ST

CORRAL ST


CURLEY AVE

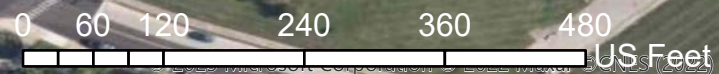
WILSON ST

E SHORT ST

EASTERN AVE

Legend

 Existing Water Mains



TCW  
02/27/2023







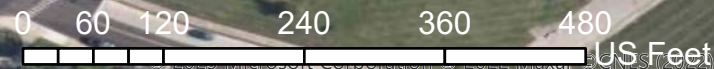
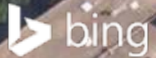
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: WILSON ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



TCW  
02/27/2023





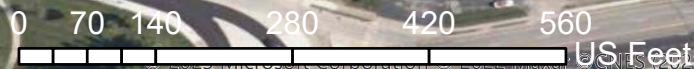
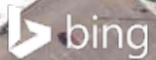
**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP  
PROJECT NAME: CORRAL ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



**TCW  
02/27/2023**





**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP  
PROJECT NAME: E SECOND ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



**TCW  
02/27/2023**





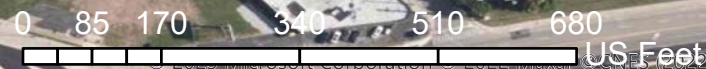
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: EASTERN AVE MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

Existing Water Mains



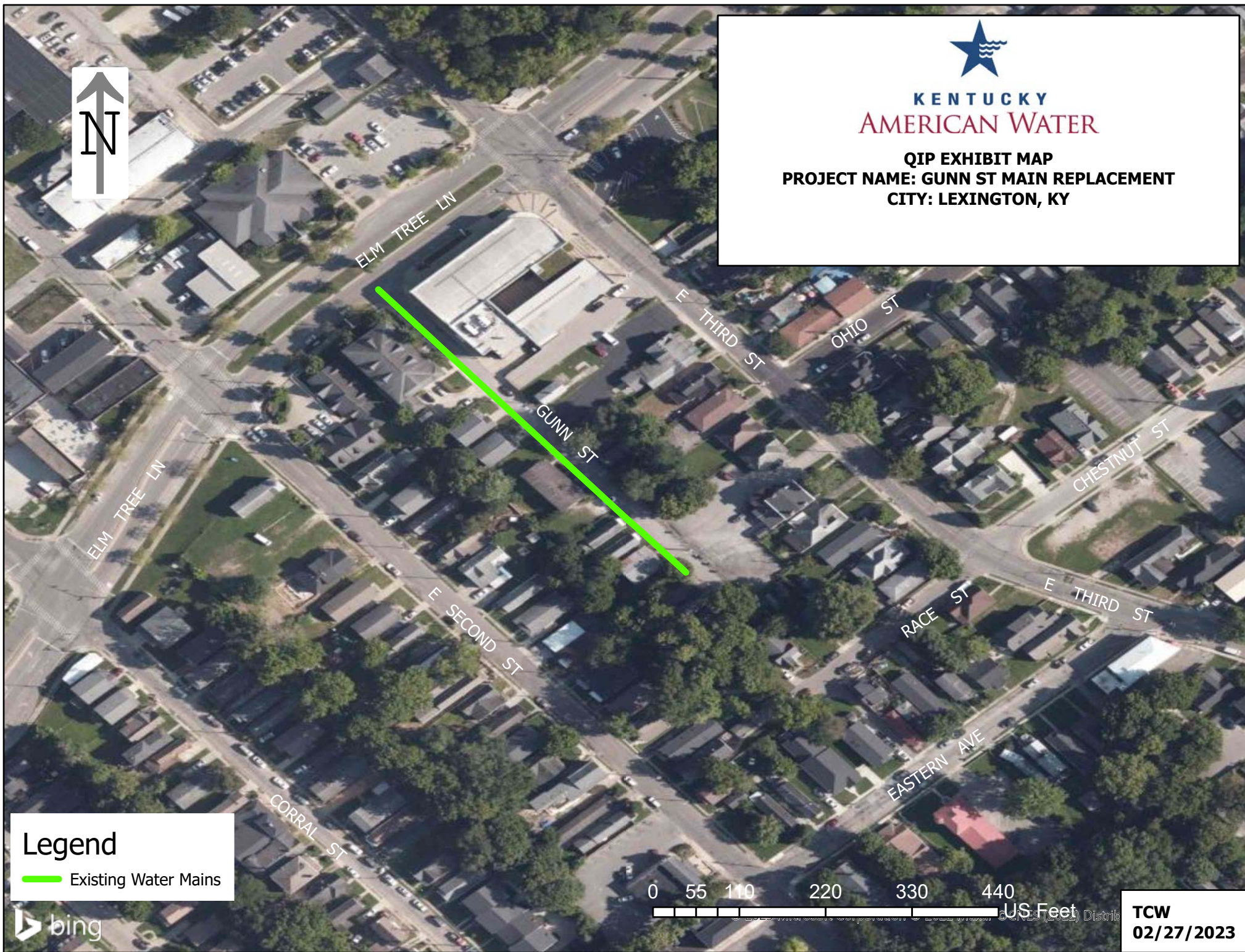
TCW  
02/27/2023





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: GUNN ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



TCW  
02/27/2023





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: CAULDER RD MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains

TCW  
02/27/2023

© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distribution  
0 80 160 320 480 640 US Feet





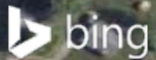
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: KEENELAND CT MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



TCW  
02/27/2023





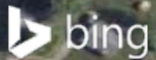
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: HOT SPRINGS CT MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



US Feet

TCW  
02/27/2023





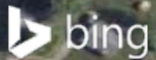
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: HIALEIAH CT MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



US Feet

TCW  
02/27/2023





KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP**  
**PROJECT NAME: NIAGARA DR / TRENT BLVD**  
**MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains

**TCW**  
**02/27/2023**

© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distribution  
0 110 220 440 660 880 US Feet







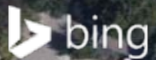
**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP  
PROJECT NAME: MARYLAND AVE MAIN REPLACEMENT  
CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

**TCW  
02/27/2023**





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: W SECOND ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

TCW  
02/27/2023





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: JEFFERSON ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

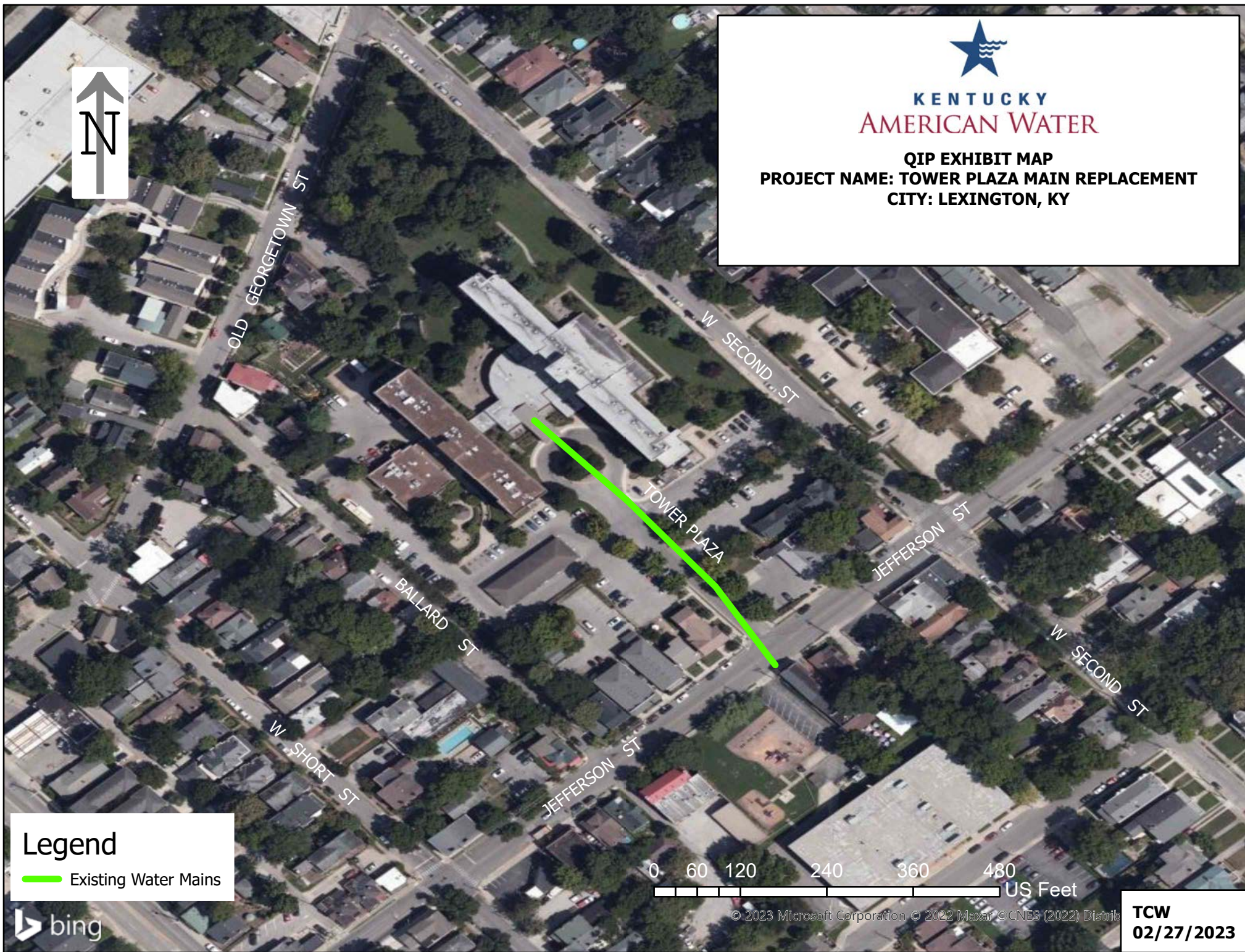
TCW  
02/27/2023





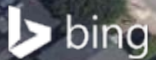
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: TOWER PLAZA MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

TCW  
02/27/2023





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: DELMAR AVE / BOONESBORO AVE /  
BELL PL / BELL CT MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains

0 90 180 360 540 720 US Feet

© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

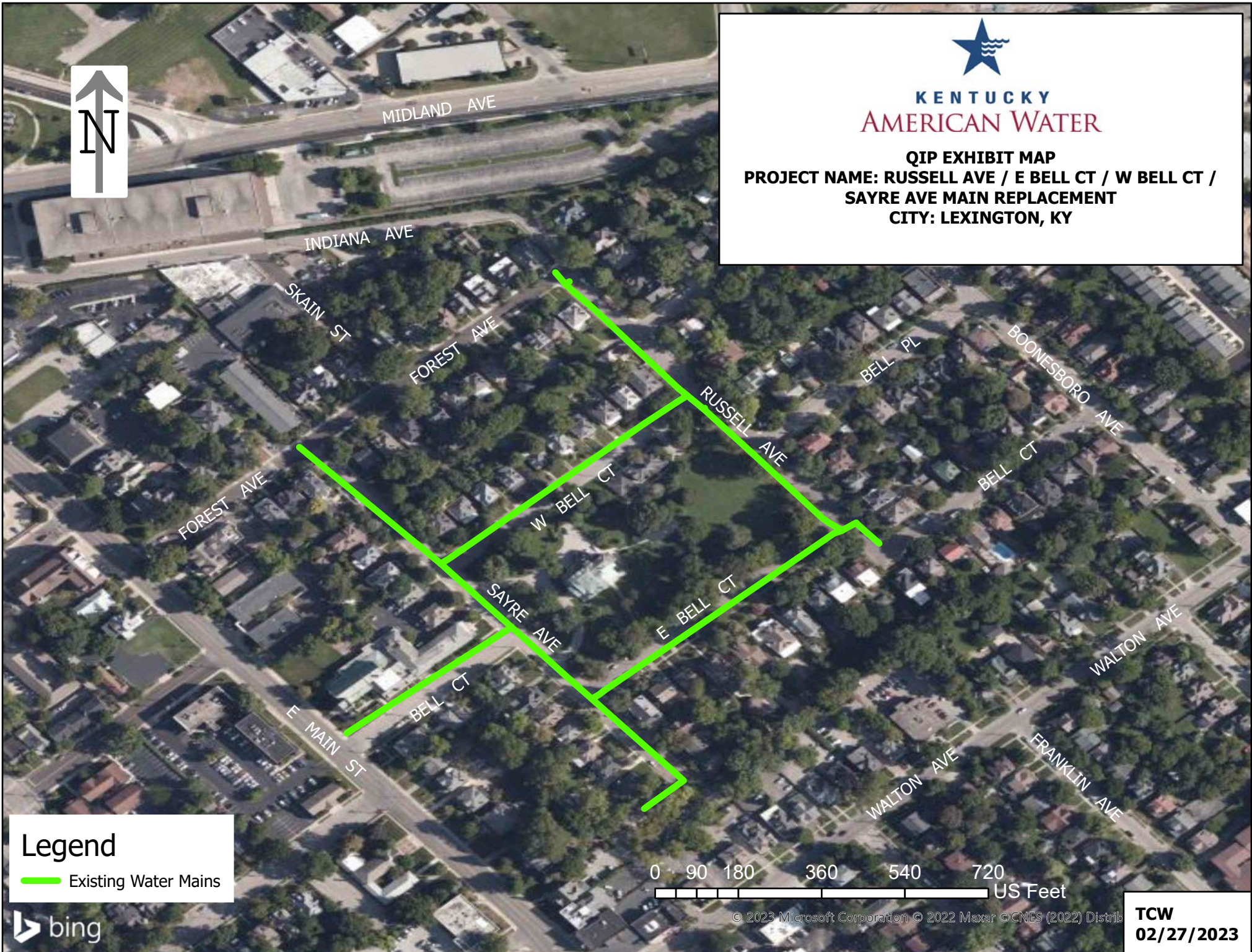
TCW  
02/27/2023





**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP  
PROJECT NAME: RUSSELL AVE / E BELL CT / W BELL CT /  
SAYRE AVE MAIN REPLACEMENT  
CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains

0 90 180 360 540 720  
US Feet

© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

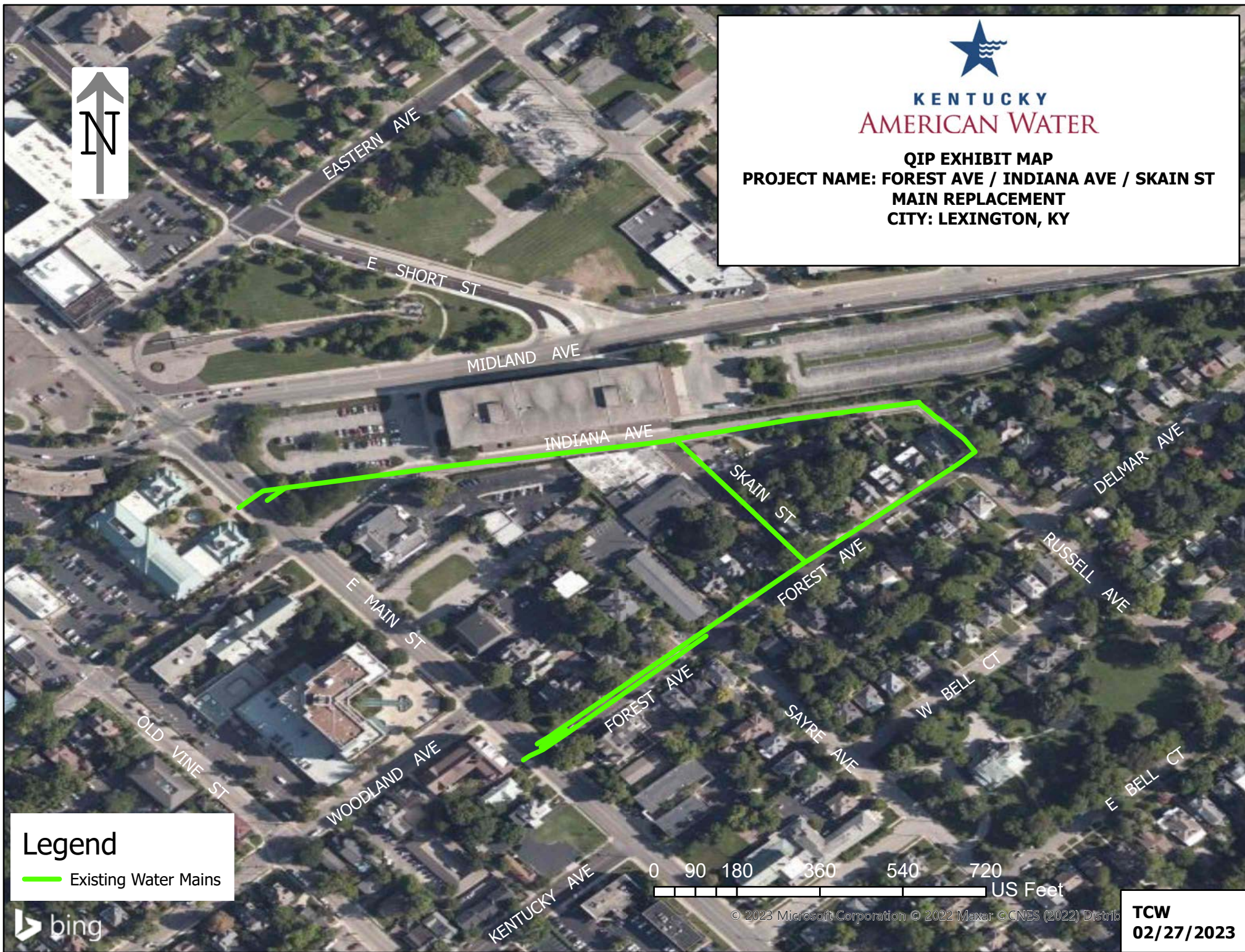
**TCW  
02/27/2023**





**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP  
PROJECT NAME: FOREST AVE / INDIANA AVE / SKAIN ST  
MAIN REPLACEMENT  
CITY: LEXINGTON, KY**



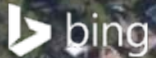
**Legend**

 Existing Water Mains



© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

**TCW  
02/27/2023**







KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: CROSS ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY



### Legend

 Existing Water Mains



© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

TCW  
02/27/2023





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: PINE ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY

W HIGH ST



OLIVER LEWIS WAY

CROSS ST

W MAXWELL ST

MADISON PL

PINE ST

MERINO ST

MERINO ST

PATTERSON ST

W MAXWELL ST

PATTERSON ST

PINE ST

SPRING ST

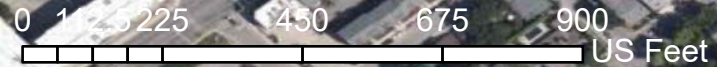
DUNAWAY ST

SPRING ST

S BROADWAY

### Legend

 Existing Water Mains



© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

TCW  
02/27/2023



W HIGH ST



KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: MERINO ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY

OLIVER  
LEWIS  
WAY

CROSS ST

W MAXWELL ST

MADISON PL

PINE ST

MERINO ST

MERINO ST

PATTERSON ST

W MAXWELL ST

PATTERSON ST

DUNAWAY ST

PINE ST

DUNAWAY ST

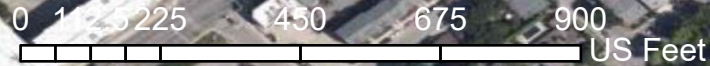
SPRING ST

SPRING ST

S BROADWAY

Legend

 Existing Water Mains



© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

TCW  
02/27/2023





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: PATTERSON ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY

W HIGH ST



OLIVER LEWIS WAY

CROSS ST

W MAXWELL ST

MADISON PL

PINE ST

MERINO ST

MERINO ST

PATTERSON ST

PATTERSON ST

W MAXWELL ST

PINE ST

DUNAWAY ST


SPRING ST

DUNAWAY ST

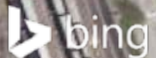
SPRING ST

S BROADWAY

### Legend

 Existing Water Mains

0 112.5 225 450 675 900 US Feet



© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

TCW  
02/27/2023



W HIGH ST



**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP  
PROJECT NAME: SPRING ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY**

OLIVER  
LEWIS  
WAY

CROSS ST

W  
MAXWELL ST

MADISON PL

PINE ST

MERINO ST

MERINO ST

PATTERSON ST

W  
MAXWELL ST

PATTERSON ST

DUNAWAY ST

PINE ST

DUNAWAY ST

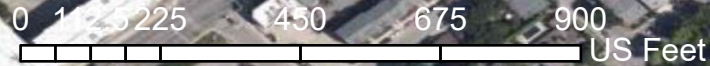
SPRING ST

SPRING ST

S  
BROADWAY

**Legend**

 Existing Water Mains



© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

**TCW  
02/27/2023**



W HIGH ST



**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP  
PROJECT NAME: DUNAWAY ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY**

OLIVER  
LEWIS  
WAY

CROSS ST

W MAXWELL ST

MADISON PL

PINE ST

MERINO ST

MERINO ST

PATTERSON ST

PATTERSON ST

W MAXWELL ST

DUNAWAY ST


PINE ST

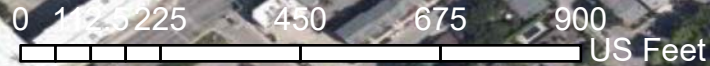
SPRING ST

SPRING ST

S BROADWAY

**Legend**

 Existing Water Mains



© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

**TCW  
02/27/2023**



W HIGH ST



**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP  
PROJECT NAME: W MAXWELL ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY**

OLIVER  
LEWIS  
WAY

CROSS ST

W MAXWELL ST

MADISON PL

PINE ST

MERINO ST

MERINO ST

PATTERSON ST

W MAXWELL ST

PATTERSON ST

DUNAWAY ST

DUNAWAY ST

PINE ST

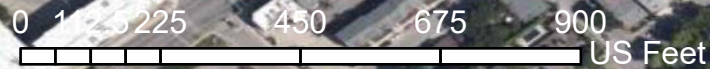
SPRING ST

SPRING ST

S BROADWAY

**Legend**

 Existing Water Mains



© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

**TCW  
02/27/2023**





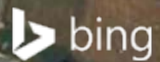
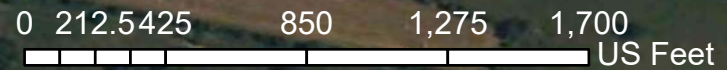
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP  
PROJECT NAME: OLD SWEET OWEN RD  
MAIN REPLACEMENT  
CITY: OWENTON, KY



### Legend

 Existing Water Mains



© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

TCW  
02/27/2023





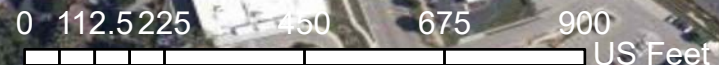
**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP  
PROJECT NAME: ROSEMONT GARDEN  
MAIN REPLACEMENT  
CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



© 2023 Microsoft Corporation © 2022 Maxar © CNES (2022) Distrib

**TCW  
02/27/2023**



### MAIN REPLACEMENT CRITERIA

<b>Criteria (Max. Points)</b>	<b>Weight</b>	<b>Rating</b>				
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Low Pressure (75)	15x	50 psi or greater	50 psi to 45 psi	45 psi to 40 psi	40 psi to 35 psi	< 35 psi
Number of Breaks/Leaks (75)	15x	0 breaks/5-year avg.	1-2 breaks/5-year avg.	3-4 breaks/5-year avg.	5-6 breaks/5-year avg.	< 6 breaks/5-year avg.
Fire Flow (50)	10x	Greater than 1,500 gpm (Blue)	1,500 to 1,000 gpm (Green)	999 gpm to 500 gpm (Yellow)	Less than 500 gpm (Red)	Known problems
Age (75)	15x	1995 or later	1980 to 1994	1970 to 1979	1960 to 1969	1959 and prior
Material Type (75)	15x	DI/RCP	PVC/HDPE	Transite/AC	CI/CLCI	Gal. / Steel
Size of Main (50)	10x	8 inch and above	6 inch	4 inch	2 inch to 3 inch	Main smaller than 2 inch
Water Quality (75)	15x	Flushing but not routine	Monthly Flushing	Bi weekly Flushing	Weekly (or more frequent) Flushing	Continuous Flushing (w/ discussion)
Customer Impact (25)	5x	less than 2 customers	2 to 10 customers	11 to 20 customers	greater than 20 customers	School/Hospital (Critical Customer)



Street/Project	Address	City	Ratings (1-5)									Total Weighted Score	Comments	COMPLETE	QIP YEAR	CASE NO. 2018 00358
			Low Pressure	Number of Breaks/Leaks (data from Jan 2017-June 2022)	Fire Flow	Age	Material Type	Size of Main	Water Quality	Customer Impact						
Highlawn Ave	Bluegrass Ave to end	Lexington	2	5	4	5	4	4	4	2	3	365	2" CI	Y	QIP YEAR 2	
Westgate Dr	Entire Street	Lexington	2	5	2	5	4	4	4	1	4	335	2" and 6" CI; 6" from 1937	Y	QIP YEAR 2	CASE YEAR 5
Lincoln Ave	Entire Street	Lexington	2	3	4	5	4	4	4	1	4	325	2" and 6" CI		IN DESIGN	CASE YEAR 1
McCubbing Dr	Entire Street	Lexington	2	3	4	5	4	4	4	1	3	320	2" CI			CASE YEAR 1
Benwood Dr	Entire Street	Lexington	4	2	4	5	4	2	2	1	4	320	8" CI	Y	QIP YEAR 2	
Montavesta Rd	Old Crow to End	Lexington	2	5	2	4	4	4	4	1	4	320	2" and 8" CI	Y	QIP YEAR 2	CASE YEAR 4
Winchester Rd	5000 and 5200 Blocks	Lexington	3	3	4	5	4	1	1	1	4	310	8" CI	Y	QIP YEAR 1	CASE YEAR 2
Fern Ave	1100 Block	Lexington	2	1	5	5	4	5	5	1	3	310	1" CI			CASE YEAR 5
N Cleveland Rd	Portion from Centerville to Sulphur	Lexington	3	2	4	4	4	4	5	1	2	310	1.25" and 6" CI		QIP YEAR 4	CASE YEAR 2
Greentree Cir	Entire Street	Lexington	2	3	5	4	4	4	4	1	2	310	2" CI		QIP YEAR 4	CASE YEAR 3
Clays Mill Road	Stratford to Harrodsburg Rd	Lexington	1	5	2	5	4	2	2	1	5	305	6" CI and AC	Y	QIP YEAR 2	
Pensacola Dr	Entire Street	Lexington	1	2	5	5	4	4	4	1	4	305	2" CI	Y	COMPLETE	CASE YEAR 1
Samuel Ln	Entire Street	Lexington	2	1	5	5	4	5	5	1	2	305	1" CI		QIP YEAR 4	CASE YEAR 3
Lindy Ln	Entire Street	Lexington	4	2	4	5	3	2	2	1	4	305	8" CI and AC	Y	QIP YEAR 2	
Delmont Dr	Entire Street	Lexington	2	3	2	5	4	4	4	1	3	300	2" CI	Y	QIP YEAR 1	CASE YEAR 1
Halls Ln	Entire Street	Lexington	2	3	2	5	4	4	4	1	3	300	2" CI	Y	QIP YEAR 1	CASE YEAR 2
Bluegrass Ave	N Limestone to Highlawn	Lexington	2	2	2	5	4	4	4	2	3	300	4" and 6" CI	Y	QIP YEAR 2	
American Ave	Entire Street	Lexington	1	5	2	5	4	2	2	1	4	300	6" CI - 1935	Y	QIP YEAR 3	
Adair St	Entire Street	Owenton	2	2	3	4	5	5	5	1	2	300			QIP YEAR 4	
Madison St	Entire Street	Owenton	2	2	3	4	5	5	5	1	2	300			QIP YEAR 4	
Preston Ave	Entire Street	Lexington	2	1	4	5	4	4	4	1	4	295	2" and 6" CI		IN DESIGN	CASE YEAR 1
Greenwood Ave	Entire Street	Lexington	2	2	2	5	4	5	5	1	3	295	1" and 8" CI	DELAY	QIP YEAR 3	CASE YEAR 5
Birkenhead Cir	Entire Street	Lexington	2	3	5	3	4	4	4	1	2	295	2.25" and 6" CI	Y	QIP YEAR 3	CASE YEAR 4
Avon Ave	Entire Street	Lexington	2	2	2	5	4	4	4	1	4	290	2" and 6" CI	Y	QIP YEAR 1	CASE YEAR 1
Elizabeth St	Sioux to Waller	Lexington	2	2	2	5	4	4	4	1	4	290	2", 8", 16" CI			CASE YEAR 5
Elizabeth St	Waller to end	Lexington	2	2	2	5	4	4	4	1	4	290	2", 8", 16" CI	Y	QIP YEAR 1	CASE YEAR 5
Hamilton Park	Entire Street	Lexington	1	3	2	5	4	4	4	1	4	290	2", 4", 6" CI	Y	QIP YEAR 2	CASE YEAR 1
Memory Ln	Entire Street	Lexington	2	1	4	5	4	4	4	1	3	290	2" and 6" CI	Y	QIP YEAR 2	CASE YEAR 5
Arceme Ave	Entire Street	Lexington	1	2	4	5	4	3	3	1	5	290	4" and 6" CI; from 1930s; School	Y	QIP YEAR 1	
Whitney Ave	Entire Street	Lexington	1	2	4	5	4	4	4	1	3	290	2" and 6" CI	Y	QIP YEAR 2	CASE YEAR 1
Aurora Ave	Entire Street	Lexington	1	2	4	5	4	2	2	2	4	290	6" CI	Y	QIP YEAR 2	
Aylesford Place	Entire Street	Lexington	1	3	4	5	4	2	2	1	4	290	6" CI; replace w/ 8" DI; replace with approximately 1,500' of 8" DI		QIP YEAR 3	
Linden Walk/Rose Lane	Entire Street (Linden Walk)/Linden Walk to Aylesford Place (Rose Lane)	Lexington	1	3	4	5	4	2	2	1	4	290	6" CI; replace with 1,900' of 8" DI		QIP YEAR 3	
Chiles Ave	Entire Street	Lexington	1	3	2	5	4	4	4	1	4	290	2" CI - 1938		QIP YEAR 3	
Breathitt Ave	Entire Street	Lexington	1	3	2	5	4	4	4	1	4	290	2" CI - 1938		QIP YEAR 3	
Old Richmond Rd	7300 Block	Lexington	1	3	5	4	4	3	3	1	3	290	4" CI			CASE YEAR 3
National Ave	Entire Street	Lexington	1	5	2	3	4	4	4	1	4	290	2" and 6" CI	Y	QIP YEAR 2	CASE YEAR 5
Anderson St	Entire Street	Lexington	2	3	5	2	4	4	4	1	4	290	2" CI		QIP YEAR 3	CASE YEAR 5
Kastle Rd	Entire Street	Lexington	2	1	2	5	4	5	5	1	4	285	1" and 4" CI			CASE YEAR 1
Hunter Cir	Entire Street	Lexington	2	2	2	5	4	4	4	1	3	285	2" CI			CASE YEAR 3
Blue Ash Dr	Entire Street	Lexington	2	2	2	5	4	4	4	1	3	285	2" CI	Y	QIP YEAR 2	CASE YEAR 2
Johnsdale Dr	Entire Street	Lexington	1	3	2	5	4	4	4	1	3	285	2.25" CI	Y	QIP YEAR 2	CASE YEAR 5
Crescent Ave	Entire Street	Lexington	2	1	4	5	4	3	3	1	4	285	4" and 6" CI; 4" from 1925	Y	QIP YEAR 1	
Given Ln	Entire Street	Lexington	1	1	4	5	4	4	4	2	2	285	6" CI	Y	QIP YEAR 2	
White Ave	200 Block	Lexington	1	1	5	5	4	4	4	1	3	285	2" CI			CASE YEAR 1
Boone Ln	4800 Block	Lexington	1	1	5	5	4	4	4	1	3	285	2" CI		QIP YEAR 4	CASE YEAR 2
Sulphur Ln	5000 Block	Lexington	1	1	5	5	4	4	4	1	3	285	2.25" CI		QIP YEAR 4	CASE YEAR 2
Malabu Ct	Entire Street	Lexington	1	3	2	5	4	4	4	1	3	285	2" CI		QIP YEAR 3	CASE YEAR 3
Stanley Ave	Entire Street	Lexington	1	2	4	5	4	4	4	1	2	285	2" CI	Y	QIP YEAR 3	
Melrose Avenue	Entire Street	Lexington	1	2	4	5	4	3	3	1	4	285			IN DESIGN	
Wyatt Pkwy	Entire Street	Lexington	4	2	2	5	3	2	2	1	4	285	8" CI and AC	Y	QIP YEAR 2	
Gess St	Entire Street	Owenton	1	2	3	4	5	5	5	1	2	285			QIP YEAR 4	
Delmont Ct	Entire Street	Lexington	2	2	2	5	4	4	4	1	2	280	2" CI	Y	QIP YEAR 1	CASE YEAR 3
Forest Park Rd	100 Block	Lexington	2	2	2	5	4	3	3	1	4	280	4" and 8" CI			CASE YEAR 5
University Ave	Entire Street	Lexington	2	2	2	5	4	3	3	1	4	280	4" CI; from 1925	Y	QIP YEAR 1	
State St	Entire Street	Lexington	2	2	2	5	4	3	3	1	4	280	4" and 16" CI; 4" from 1925	Y	QIP YEAR 1	
Appletree Ln	Entire Street	Lexington	1	1	4	5	4	4	4	1	4	280	2" and 6" CI	Y	QIP YEAR 2	CASE YEAR 1
Courtney Ave	Entire Street	Lexington	1	1	4	5	4	4	4	1	4	280	2" and 6" CI	Y	QIP YEAR 2	CASE YEAR 2
Euclid Ave	Entire Street	Lexington	1	2	4	5	4	2	2	1	5	280	6" and 12" CI; 6" from 1914 and 12" from 1937; in conjunction with LFUCG project			CASE YEAR 5
Uhan Ct	400 Block	Lexington	1	1	5	5	4	4	4	1	2	280	2" CI		QIP YEAR 4	CASE YEAR 1
Emery Ct	Entire Street	Lexington	1	1	5	5	4	4	4	1	2	280	2" CI	Y	QIP YEAR 2	CASE YEAR 2
Westwood Ct	200 Block	Lexington	1	1	5	5	4	4	4	1	2	280	2" CI			CASE YEAR 5
Woodland Ave	Entire Street	Lexington	1	3	4	5	4	2	2	1	2	280	6" CI; from 1891	Y	QIP YEAR 3	
Centerville Ln	Entire Street	Lexington	1	1	4	5	4	5	5	1	2	280			QIP YEAR 4	CASE YEAR 2
Campsie Pl/Ct	Entire Street	Lexington	2	1	4	5	4	3	3	1	3	280			QIP YEAR 4	
Locust Ave	Entire Street	Lexington	3	1	2	5	4	3	3	1	4	280	Coordination with LFUCG sewer project		QIP YEAR 4	



Street/Project	Address	City	Ratings (1-5)									Total Weighted Score	Comments	COMPLETE	QIP YEAR	CASE NO. 2018 00358
			Low Pressure	Number of Breaks/Leaks (data from Jan 2017-June 2022)	Fire Flow	Age	Material Type	Size of Main	Water Quality	Customer Impact						
Croyden Ct	Entire Street	Lexington	2	1	5	4	4	4	4	1	2	280	2" CI	Y	QIP YEAR 2	CASE YEAR 3
Woodside Cir	Entire Street	Lexington	2	1	5	4	4	4	4	1	2	280	2" CI		QIP YEAR 3	CASE YEAR 3
Jade Cir	Entire Street	Lexington	2	1	5	4	4	4	4	1	2	280	2" CI			CASE YEAR 3
Granite Cir	Entire Street	Lexington	2	1	5	4	4	4	4	1	2	280	2" CI			CASE YEAR 3
Cricklewood Ct	Entire Street	Lexington	1	2	5	4	4	4	4	1	2	280	2" CI			CASE YEAR 3
Berwin Ct	3500 Block	Lexington	2	1	5	4	4	4	4	1	2	280	2.25" CI			CASE YEAR 3
Ipswich Ct	3400 Block	Lexington	1	2	5	4	4	4	4	1	2	280	2.25" CI			CASE YEAR 3
Paddock Ct	Entire Street	Lexington	2	1	5	4	4	4	4	1	2	280	2.25" CI			CASE YEAR 3
Penway Ct	Entire Street	Lexington	2	1	5	4	4	4	4	1	2	280	2.25" CI			CASE YEAR 3
Kirk Ct	Entire Street	Lexington	2	1	5	4	4	4	4	1	2	280	2" CI			CASE YEAR 3
Black Arrow Ct	Entire Street	Lexington	2	1	5	4	4	4	4	1	2	280	2.25" CI			CASE YEAR 3
Lilydale Ct	Entire Street	Lexington	2	1	5	4	4	4	4	1	2	280	2.25" CI			CASE YEAR 4
Kelsey Ct	Entire Street	Lexington	1	2	5	4	4	4	4	1	2	280	2.25" CI	Y	QIP YEAR 2	CASE YEAR 3
Greentree Ct	1100 Block	Lexington	2	3	2	4	4	4	4	1	2	280	2" CI			CASE YEAR 3
Margo Ct	Entire Street	Lexington	2	2	5	3	4	4	4	1	2	280	2.25" CI			CASE YEAR 4
Jamaica Ct	Entire Street	Lexington	2	2	5	3	4	4	4	1	2	280	2.25" CI			CASE YEAR 4
Jannelle Ct	Entire Street	Lexington	2	2	5	3	4	4	4	1	2	280	2.25" CI		QIP YEAR 3	CASE YEAR 4
Ralston Lane	Entire Street	Winchester	1	2	5	2	2	4	4	5	2	280	2" PVC; Continuous Flushing			
Campbell Ln	800 Block	Lexington	2	3	5		4	4	4	3	2	280	2" CI	Y	QIP YEAR 2	CASE YEAR 5
Rosemill Dr	Entire Street	Lexington	1	2	2	5	4	4	4	1	4	275	2" CI & 6" CI; replace with 1,150' of 8" DI			
Burnett Ave	Entire Street	Lexington	2	1	2	5	4	4	4	1	4	275	2" and 6" CI	Y	QIP YEAR 1	CASE YEAR 1
Lackawanna Rd	Entire Street	Lexington	1	2	2	5	4	4	4	1	4	275	2" CI	Y	COMPLETE	CASE YEAR 1
Cooper Dr	600 Block	Lexington	2	2	2	5	4	2	2	1	5	275	6" and 12" CI			CASE YEAR 1
Clayton Ave	Entire Street	Lexington	1	2	2	5	4	4	4	1	4	275	2" and 6" CI	Y	QIP YEAR 2	CASE YEAR 1
Lansdowne Cir	700 Block	Lexington	2	1	2	5	4	5	5	1	2	275	1" CI			CASE YEAR 2
Westwood Dr	100 Block	Lexington	1	2	2	5	4	4	4	1	4	275	2" CI			CASE YEAR 5
Rosemill Dr	Southgate to Clays Mill	Lexington	1	2	2	5	4	4	4	1	4	275	2" and 6" CI			CASE YEAR 5
Sayre Ave	Entire Street	Lexington	1	1	4	5	4	4	4	1	3	275	2" and 4" CI		QIP YEAR 4	CASE YEAR 1
Strathmore Rd	300 Block	Lexington	1	1	4	5	4	4	4	1	3	275	2" CI		QIP YEAR 4	CASE YEAR 1
Conn Terrace	Entire Street	Lexington	2	1	4	5	4	2	2	1	4	275	6" CI and 6" AC	Y	QIP YEAR 1	
Gazette Ave	Entire Street	Lexington	2	1	4	5	4	2	2	1	4	275	6" CI; from 1927	Y	QIP YEAR 1	
Monroe Ave	Entire Street	Lexington	2	1	4	5	4	2	2	1	4	275	6" CI; from 1936		IN DESIGN	
Pine St	500 Block	Lexington	2	1	5	5	4	2	2	1	2	275	6" CI; from 1926		QIP YEAR 4	CASE YEAR 5
Camden Ave	1400 Block	Lexington	1	2	2	5	4	4	4	1	4	275	2" CI	Y	QIP YEAR 3	CASE YEAR 1
Florence Ave	Entire Street	Lexington	1	2	2	5	4	4	4	1	4	275	2" CI - 1938		QIP YEAR 3	
Elsmere Park	Entire Street	Lexington	1	2	4	5	4	2	2	1	4	275	6" CI - 1901, 1904	Y	QIP YEAR 3	
Grandin Rd	Entire Street	Lexington	3	2	2	5	4	2	2	1	2	275			QIP YEAR 4	
Old Leestown Rd	Entire Street	Lexington	1	2	2	5	4	4	4	1	4	275			QIP YEAR 4	
E Bell Ct	Entire Street	Lexington	1	1	4	5	4	4	4	1	3	275			QIP YEAR 4	
W Bell Ct	Entire Street	Lexington	1	1	4	5	4	4	4	1	3	275			QIP YEAR 4	
Russell Ave	Entire Street	Lexington	1	1	4	5	4	4	4	1	3	275			QIP YEAR 4	
Old Sweet Owen	E Adair St to dead end	Owenton	1	1	3	4	5	5	5	1	3	275			QIP YEAR 4	
King Arthur Dr	3400 Block	Lexington	1	3	2	4	4	4	4	1	4	275	2" CI	Y	QIP YEAR 2	CASE YEAR 3
Wilderness Rd	Most of Street	Lexington	2	1		5	5	4	4	1	4	270	2" Galvanized			
Morrison Ave	400 Block	Lexington	2	1	2	5	4	4	4	1	3	270	2" CI		COMPLETE	CASE YEAR 1
Briar Hill Rd	N Cleveland to Avon	Lexington	2	2	2	5	4	2	2	1	4	270	6" CI			CASE YEAR 2
Leisure Ln	Entire Street	Lexington	2	1	2	5	4	4	4	1	3	270	6" CI	Y	QIP YEAR 2	
N Ashland Ave	National Ave to Cramer Ave	Lexington	1	1	4	5	4	2	2	2	3	270	6" CI	Y	QIP YEAR 2	
Ash St	Whitney Ave to Georgetown Rd	Lexington	1	2	4	5	4	2	2	1	3	270	6" CI	Y	QIP YEAR 2	
Michigan St	Whitney Ave to Georgetown Rd	Lexington	1	2	4	5	4	2	2	1	3	270	6" CI	Y	QIP YEAR 2	
Wittland Ln	Entire Street	Lexington	1	1	5	5	4	2	2	1	4	270	6" CI; some from 1922	Y	QIP YEAR 1	
Lone Oak Dr	Entire Street	Lexington	1	2	2	5	4	4	4	1	3	270	2" CI		QIP YEAR 3	CASE YEAR 2
Kentucky Avenue	Euclid Ave-Maxwell St	Lexington	1	3	2	5	4	2	2	1	4	270	6" CI; replace w/ 8" DI	Y	QIP YEAR 3	
Toner St	Entire Street	Lexington	1	2	4	5	4	2	2	1	3	270	6" CI - 1905	Y	QIP YEAR 3	
Hart Road		Lexington	1	2	4	5	4	2	2	1	3	270	6" CI		IN DESIGN	
Dudley Road		Lexington	1	2	4	5	4	2	2	1	3	270	6" CI		IN DESIGN	
Todd's Road	@ Pricetown Ln	Lexington	1	1	3	5	4	5	5	1	2	270			QIP YEAR 4	
Colchester Dr	Entire Street	Lexington	2	2	2	4	4	4	4	1	3	270	2.25" and 8" CI	Y	QIP YEAR 2	CASE YEAR 3
Beulah Park	Entire Street	Lexington	2	3	2	3	4	4	4	1	3	270	2.25" and 6" CI	Y	QIP YEAR 3	CASE YEAR 4
Tillybrook Ct	Entire Street	Lexington	2	1	2	5	4	4	4	1	2	265	2" CI			CASE YEAR 3
Shirlee Ct	Entire Street	Lexington	2	1	2	5	4	4	4	1	2	265	2" CI			CASE YEAR 3
Hill Rise Ct	Entire Street	Lexington	2	1	2	5	4	4	4	1	2	265	2" CI	Y	QIP YEAR 1	CASE YEAR 3
Bradford Dr	Entire Street	Lexington	1	2	3	5	4	2	2	1	4	265	6" CI			
Silver Maple Way	Entire Street	Lexington	1	1	4	5	4	1	2	2	4	265	8" CI; Reference 4th St/Chestnut St Flushing; tied to N Martin Luther King Blvd Replacement		QIP YEAR 4	
Bradley Ct	Entire Street	Lexington	1	2	2	5	4	4	4	1	2	265	2" and 6" CI	DELAY	QIP YEAR 3	CASE YEAR 5
Warren Ct	Entire Street	Lexington	1	2	4	5	4	2	2	1	2	265	6" CI - 1913	Y	QIP YEAR 3	



Street/Project	Address	City	Ratings (1-5)									Total Weighted Score	Comments	COMPLETE	QIP YEAR	CASE NO. 2018 00358
			Low Pressure	Number of Breaks/Leaks (data from Jan 2017-June 2022)	Fire Flow	Age	Material Type	Size of Main	Water Quality	Customer Impact						
Eastin Rd	Retire services only	Lexington	2	2	2	5	4	2	1	3	265	Retire services only		QIP YEAR 4		
Boonesboro Ave	Entire Street	Lexington	1	1	4	5	4	3	1	3	265			QIP YEAR 4		
Bell Pl/Ct	Entire Street	Lexington	1	1	4	5	4	3	1	3	265			QIP YEAR 4		
Feltner Ct	Entire Street	Lexington	1	3	2	4	4	4	1	2	265	2.25" CI	Y	QIP YEAR 2	CASE YEAR 3	
Williamsburg Ct	Entire Street	Lexington	1	1	5	4	4	4	1	2	265	2" CI			CASE YEAR 3	
Range Ct	Entire Street	Lexington	1	1	5	4	4	4	1	2	265	2" CI	Y	QIP YEAR 1	CASE YEAR 3	
Kimberlite Ct	Entire Street	Lexington	1	1	5	4	4	4	1	2	265	2" CI			CASE YEAR 3	
Durham Ct	Entire Street	Lexington	1	1	5	4	4	4	1	2	265	2" CI			CASE YEAR 3	
Saybrook Ct	Entire Street	Lexington	1	1	5	4	4	4	1	2	265	2" CI			CASE YEAR 3	
Tanner Ct	Entire Street	Lexington	1	1	5	4	4	4	1	2	265	2" CI			CASE YEAR 3	
Havelock Cir	Entire Street	Lexington	1	1	5	4	4	4	1	2	265	2.25" CI	Y	QIP YEAR 3	CASE YEAR 3	
Whitemark Ct	4000 Block	Lexington	1	1	5	4	4	4	1	2	265	2.25" CI			CASE YEAR 4	
Ormond Cir	3500 Block	Lexington	1	1	5	4	4	4	1	2	265	2" CI			CASE YEAR 4	
Cobyville Ct	Entire Street	Lexington	2	3	2	3	4	4	1	2	265	2.25" and 6" CI	Y	QIP YEAR 2	CASE YEAR 4	
Saginaw Ct	Entire Street	Lexington	2	1	5	3	4	4	1	2	265	2.25" CI			CASE YEAR 3	
Lisa Cir	Entire Street	Lexington	1	2	5	3	4	4	1	2	265	2.25" CI			CASE YEAR 4	
Mona Ct	Entire Street	Lexington	2	1	5	3	4	4	1	2	265	2.25" CI			CASE YEAR 4	
Versie Ct	Entire Street	Lexington	2	1	5	3	4	4	1	2	265	2" CI		QIP YEAR 3	CASE YEAR 4	
Tammy Ct	Entire Street	Lexington	2	1	5	3	4	4	1	2	265	2.25" CI			CASE YEAR 4	
Laverne Ct	Entire Street	Lexington	2	1	5	3	4	4	1	2	265	2.25" CI			CASE YEAR 4	
Grevey Ct	Entire Street	Lexington	2	1	5	3	4	4	1	2	265	2.25" CI			CASE YEAR 4	
Lynnwood Ct	Entire Street	Lexington	2	1	5	3	4	4	1	2	265	2.25" CI			CASE YEAR 4	
Woodston Ct	Entire Street	Lexington	1	2	5	3	4	4	1	2	265	2.25" CI			CASE YEAR 4	
Clearwood Ct	Entire Street	Lexington	2	1	5	3	4	4	1	2	265	2.25" and 6" CI			CASE YEAR 4	
Waters Edge Pl	Entire Street	Lexington	1	2	5	3	4	4	1	2	265	2.25" CI			CASE YEAR 4	
Bass Ct	Entire Street	Lexington	2	1	5	3	4	4	1	2	265	2.25" CI			CASE YEAR 4	
Swoonalong Ct	Entire Street	Lexington	1	2	5	3	4	4	1	2	265	2.25" CI			CASE YEAR 4	
Gunbow Ct	Entire Street	Lexington	2	1	5	3	4	4	1	2	265	2.25" CI		QIP YEAR 3	CASE YEAR 4	
Pittman Creek Ct	Entire Street	Lexington	2	1	5	3	4	4	1	2	265	2.25" CI			CASE YEAR 5	
Timberhill Ct	Entire Street	Lexington	2	1	5	3	4	4	1	2	265	2.25" CI	Y	QIP YEAR 2	CASE YEAR 5	
Elderberry Ct	Entire Street	Lexington	2	1	5	3	4	4	1	2	265	2.25" CI	Y	QIP YEAR 2	CASE YEAR 5	
La Somme Dr & Riviera Rd	Entire Street	Lexington	1	3	5	2	4	3	1	4	265	4" CI				
Wabash Dr	100 Block	Lexington	1	1	2	5	4	4	1	4	260	2" CI	Y	COMPLETE	CASE YEAR 1	
Old Vine St	300 Block	Lexington	2	2	2	5	4	2	1	2	260	6" CI			CASE YEAR 5	
Devonia Ave	Entire Street	Lexington	1	1	4	5	4	2	1	4	260	6" CI; from 1930s	Y	QIP YEAR 1		
Carlisle Ave	Entire Street	Lexington	1	1	4	5	4	2	1	4	260	6" CI; from 1930s	Y	QIP YEAR 1		
Elm St	Charles St to Georgetown Rd	Lexington	1	1	5	5	4	2	1	2	260	6" CI	Y	QIP YEAR 2		
Kentucky Ave	Entire Street	Lexington	1	3	2	5	4	2	1	2	260	6" CI; from 1895	Y	QIP YEAR 3		
Standish Way	South end	Lexington	1	2	2	5	4	3	1	3	260	4" and 6" CIU - 1947	Y	QIP YEAR 3		
Southern Ave	Entire Street	Lexington	1	1	4	5	4	3	1	2	260	4" CI	Y	QIP YEAR 3		
Campbell St	Entire Street	Lexington	1	2	2	5	4	3	1	3	260	4" and 6" CI - 1908, 1914		QIP YEAR 3		
Ohio St	Entire Street	Lexington	1	1	4	5	4	2	1	4	260	Coordination with LFUCG sewer project		QIP YEAR 4		
E Seventh St	N Limestone to Maple St	Lexington	1	1	4	5	4	2	1	4	260			QIP YEAR 4		
Corral St	Elm Tree to Race St	Lexington	1	1	4	5	4	2	1	4	260			QIP YEAR 4		
Greentree Pl	Entire Street	Lexington	2	1	2	4	4	4	1	4	260	2" CI			CASE YEAR 3	
Greentree Rd	Entire Street	Lexington	2	3	2	4	4	1	1	4	260	12" CI				
Barbados Ln	Entire Street	Lexington	2	1	2	4	4	4	1	4	260	2.25" CI			CASE YEAR 3	
Clair Rd	Entire Street	Lexington	2	1	2	4	4	4	1	4	260	2" CI	Y	QIP YEAR 2	CASE YEAR 4	
Central Ave	600 Block	Lexington	2	2	2	4	4	3	1	3	260	4" and 8" CI			CASE YEAR 5	
Barksdale Dr	Entire Street	Lexington	1	2	2	4	4	4	1	4	260	2.25" and 6" CI	Y	QIP YEAR 2	CASE YEAR 3	
Briarwood Dr	Entire Street	Lexington	1	2	2	4	4	4	1	4	260	8" CI		QIP YEAR 3		
Redwood Dr/Cir	Entire Street	Lexington	1	2	2	4	4	4	1	4	260	2" and 8" CI		QIP YEAR 3		
Greentree Rd	Armstrong to New Circle	Lexington	1	3	1	4	4	3	1	5	260	Coordination with LFUCG sewer project		QIP YEAR 4	CASE YEAR 3	
Kilrush Dr	1100 Block	Lexington	2	4	2	3	4	1	1	4	260	8" CI	Y	QIP YEAR 2	CASE YEAR 3	
Cayman Ln	3600 Block	Lexington	1	2	4	3	4	4	1	3	260	2.25" and 6" CI			CASE YEAR 4	
Macadam Dr	Entire Street	Lexington	1	1	5	3	4	4	1	4	260	2" and 8" CI			CASE YEAR 5	
Maywood Park	Entire Street	Lexington	2	2	2	3	4	4	1	4	260	2" CI		QIP YEAR 3	CASE YEAR 4	
Ox Hill Dr	Entire Street	Lexington	2	2	2	3	4	4	1	4	260	2" and 6" CI		QIP YEAR 3	CASE YEAR 4	
Tanforan Dr	Entire Street	Lexington	1	3	2	3	4	4	1	4	260	2" and 8" CI		QIP YEAR 3	CASE YEAR 4	
Martin Ave	Entire Street	Lexington	2	2	4	2	4	4	1	3	260	2" CI		QIP YEAR 3	CASE YEAR 5	
Gentry Road	177-550	Winchester	2	3	5	2	2	5	1	2	260	1.5" PVC				
Haley Rd	Small Section	Lexington	2	2		5	4	4	1	1	255	2" CI			CASE YEAR 2	
Rolling Hills Ct	3500 Block	Lexington	2	1		5	4	5	1	2	255	1" CI			CASE YEAR 2	
New Zion Rd	100 Block	Lexington	2	1	1	5	4	4	1	2	255	2.25" CI			CASE YEAR 3	
Newtown Pike	Louden Ave-Charles Ave	Lexington	1	2	2	5	4	2	1	4	255	6" CI; replace with approximately 1,800' of 8" DI				
Shawnee Pl	100 Block	Lexington	1	1	2	5	4	4	1	3	255	2" CI			CASE YEAR 1	
Willowlawn Ave	1300 Block	Lexington	1	1	2	5	4	4	1	3	255	2" CI	Y	QIP YEAR 2	CASE YEAR 1	



Street/Project	Address	City	Ratings (1-5)									Total Weighted Score	Comments	COMPLETE	QIP YEAR	CASE NO. 2018 00358
			Low Pressure	Number of Breaks/Leaks (data from Jan 2017-June 2022)	Fire Flow	Age	Material Type	Size of Main	Water Quality	Customer Impact						
Rainbow Rd	2000 Block	Lexington	1	1	2	5	4	4	4	1	3	255	2.25" CI			CASE YEAR 2
Bradford Cir	200 Block	Lexington	1	1	2	5	4	4	4	1	3	255	2" CI			CASE YEAR 3
Ridgeway Rd	Entire Street	Lexington	1	1	2	5	4	4	4	1	3	255	2" and 6" CI; 2" from 1927 and 6" from 1928			CASE YEAR 5
Russell Cave Rd	1400 Block	Lexington	1	3	2	5	4	1	1	1	3	255	8" and 12" CI			CASE YEAR 5
Transcript Ave	Entire Street	Lexington	2	1	2	5	4	2	2	1	4	255	6" and 8" CI; from 1935	Y	QIP YEAR 1	
Sherman Ave	Entire Street	Lexington	2	1	2	5	4	2	2	1	4	255	6" CI; from 1935		IN DESIGN	
Perry St	200 Block	Lexington	1	1	4	5	4	2	2	1	3	255	6" CI			CASE YEAR 1
Gunn St	300 Block	Lexington	1	1	4	5	4	2	2	1	3	255	6" CI		QIP YEAR 4	CASE YEAR 1
Warnock St	200 Block	Lexington	1	1	4	5	4	2	2	1	3	255	6" CI			CASE YEAR 1
Castlewood Dr	Entire Street	Lexington	1	1	4	5	4	2	2	1	3	255	6" and 8" CI			CASE YEAR 5
Douglas Ave	Entire Street	Lexington	1	2	2	5	4	2	2	1	4	255	6" CI - 1938		QIP YEAR 3	
Johnson Ave	Entire Street	Lexington	2	1	2	5	4	2	2	1	4	255			QIP YEAR 4	
Bermuda Ave	Entire Street	Lexington	1	1	2	5	4	4	4	1	3	255			QIP YEAR 4	
Gentry Ln	Small Section	Lexington	2	2		4	4	5	5	1	2	255	1" CI			CASE YEAR 3
N Limestone St	E. Loudon Ave - New Circle Rd	Lexington	1	3	2	4	4	2	2	1	4	255	6" CI & 12" CI; replace with 3,700' of 12" DI			
Heather Ct	Entire Street	Lexington	1	2	2	4	4	4	4	1	3	255	2" CI	Y	QIP YEAR 2	CASE YEAR 3
Thistleton Cir	Entire Street	Lexington	1	2	2	4	4	4	4	1	3	255	2" CI	Y	QIP YEAR 2	CASE YEAR 3
Martinique Ln	Entire Street	Lexington	2	1	2	4	4	4	4	1	3	255	2.25" and 6" CI			CASE YEAR 3
Derby Dr	200 Block + Court	Lexington	2	2	2	3	4	4	4	1	3	255	2.25" and 6" CI	Y	QIP YEAR 3	CASE YEAR 2
Crewe Ct	Entire Street	Lexington	1	2	4	3	4	4	4	1	2	255	2.25" and 6" CI	Y	QIP YEAR 2	CASE YEAR 4
Atokad Park	Entire Street	Lexington	2	2	2	3	4	4	4	1	3	255	2.25" and 6" CI	Y	QIP YEAR 3	CASE YEAR 4
Ferguson St	Entire Street	Lexington	2	3	2	2	4	4	4	1	3	255	2" and 8" CI		QIP YEAR 3	CASE YEAR 5
Columbus Ln	Entire Street	Lexington	1	1		5	5	4	4	1	3	250	2" Galvanized			
Uttinger Ln	Entire Street	Lexington	1	1		5	5	4	4	1	3	250	2" Galvanized			
Raven Cir	Entire Street	Lexington	2	1		5	4	4	4	1	3	250	2" CI			CASE YEAR 3
Lamont Ct	Entire Street	Lexington	1	1	2	5	4	4	4	1	2	250	2" CI			CASE YEAR 2
Longview Dr	500 Block	Lexington	1	2	2	5	4	2	2	1	3	250	6" CI			CASE YEAR 5
Oak Hill Dr	1100 Block	Lexington	2	1	2	5	4	2	2	1	3	250	6" CI			CASE YEAR 5
Orion Way	Entire Street	Lexington	1	1	3	5	4	2	2	1	4	250	6" CI; from 1930s	Y	QIP YEAR 1	
Ransom Ave	Entire Street	Lexington	1	1	4	5	4	2	2	1	2	250	6" CI; from 1911			
Shreve Ave	Entire Street	Lexington	1	1	4	5	4	2	2	1	2	250	6" CI; from 1910			
Booker St	Entire Street	Lexington	1	1	4	5	4	2	2	1	2	250	6" CI	Y	QIP YEAR 2	
Grand Ave	Entire Street	Lexington	1	1	5	5	4	1	1	1	2	250	8" CI; from 1884			
Headley Ave	Entire Street	Lexington	1	2	2	5	4	2	2	1	3	250	6" CI - 1903, 1936			QIP YEAR 3
Chrysalis Ct	Entire Street	Lexington	1	1	4	5	4	2	2	1	2	250	6" CI	Y	QIP YEAR 3	
Sheila Ct	Entire Street	Lexington	1	1	4	5	4	2	2	1	2	250	6" AC - 1983	Y	QIP YEAR 3	
Harken Ct	Entire Street	Lexington	1	1	4	5	4	2	2	1	2	250	2" Service?	Y	QIP YEAR 3	
Chelan Ct	100 Block	Lexington	1	1	2	5	4	4	4	1	2	250	2" CI			CASE YEAR 5
Ranier Dr	Entire Street	Lexington	2	1	2	5	4	2	2	1	3	250			QIP YEAR 4	
E Second St	Elm Tree to Race St	Lexington	1	1	3	5	4	2	2	1	4	250			QIP YEAR 4	
Maryland Ave	Entire Street	Lexington	1	1	2	5	4	3	3	1	4	250			QIP YEAR 4	
W Second St	Old Georgetown to Jefferson	Lexington	1	1	2	5	4	3	3	1	4	250			QIP YEAR 4	
Forest Ave	Entire Street	Lexington	1	1	2	5	4	3	3	1	4	250			QIP YEAR 4	
Gaines Village Dr	Entire Street	Owenton	1	2		4	5	4	4	1	3	250	2" Galvanized			QIP YEAR 3
Old Dobbin Cir	Entire Street	Lexington	2	1	2	4	4	4	4	1	2	250	2" CI			CASE YEAR 3
Edinburgh Ct	Entire Street	Lexington	2	1	2	4	4	4	4	1	2	250	2" CI	DELAY	QIP YEAR 3	CASE YEAR 3
Shiloh Ct	Entire Street	Lexington	2	1	2	4	4	4	4	1	2	250	2" CI			CASE YEAR 3
Flintridge Cir	3400 Block	Lexington	2	1	2	4	4	4	4	1	2	250	2" CI			CASE YEAR 3
Montavesta Ct	Entire Street	Lexington	2	1	2	4	4	4	4	1	2	250	2" CI	Y	QIP YEAR 2	CASE YEAR 4
Cummins Ct	Entire Street	Lexington	1	2	2	4	4	4	4	1	2	250	2" CI			CASE YEAR 4
King Arthur Ct	Entire Street	Lexington	1	2	2	4	4	4	4	1	2	250	2" CI	Y	QIP YEAR 2	CASE YEAR 3
Bowen Ct	Entire Street	Lexington	1	2	2	4	4	4	4	1	2	250	2.25" and 6" CI	Y	QIP YEAR 2	CASE YEAR 3
Old Crow Ct	Entire Street	Lexington	1	2	2	4	4	4	4	1	2	250	2" and 6" CI	Y	QIP YEAR 2	CASE YEAR 4
Cardigan Ct	600 Block	Lexington	1	2	2	4	4	4	4	1	2	250	2.25" CI	Y	QIP YEAR 3	CASE YEAR 3
Paige Ct	2100 Block	Lexington	2	1	2	4	4	4	4	1	2	250	2.25" and 6" CI			CASE YEAR 5
Tabago Ct	Entire Street	Lexington	1	3	2	3	4	4	4	1	2	250	2.25" and 6" CI			CASE YEAR 3
Leitner Ct	Entire Street	Lexington	2	2	2	3	4	4	4	1	2	250	2.25" and 6" CI	Y	QIP YEAR 2	CASE YEAR 4
Fraserdale Ct	Entire Street	Lexington	1	1	5	3	4	4	4	1	2	250	2.25" and 6" CI	Y	QIP YEAR 2	CASE YEAR 4
Lookout Cir	Entire Street	Lexington	1	1	5	3	4	4	4	1	2	250	2" CI	Y	QIP YEAR 2	CASE YEAR 4
Wem Ct	Entire Street	Lexington	1	1	5	3	4	4	4	1	2	250	2" CI			CASE YEAR 4
Harris Ct	Entire Street	Lexington	1	1	5	3	4	4	4	1	2	250	2.25" CI			CASE YEAR 4
Grant Ct	Entire Street	Lexington	1	1	5	3	4	4	4	1	2	250	2" CI			CASE YEAR 4
Hollow Creek Ct	Entire Street	Lexington	1	1	5	3	4	4	4	1	2	250	2" CI			CASE YEAR 4
Graig Ct	Entire Street	Lexington	1	1	5	3	4	4	4	1	2	250	2.25" CI			CASE YEAR 4
Harmony Ct	Entire Street	Lexington	1	1	5	3	4	4	4	1	2	250	2.25" CI			CASE YEAR 4
Elkwood Ct	Entire Street	Lexington	1	1	5	3	4	4	4	1	2	250	2.25" CI	Y	QIP YEAR 2	
Moundview Ct	Entire Street	Lexington	2	2	2	3	4	4	4	1	2	250	2" and 6" CI		QIP YEAR 3	CASE YEAR 4



Street/Project	Address	City	Ratings (1-5)								Total Weighted Score	Comments	COMPLETE	QIP YEAR	CASE NO. 2018 00358
			Low Pressure	Number of Breaks/Leaks (data from Jan 2017-June 2022)	Fire Flow	Age	Material Type	Size of Main	Water Quality	Customer Impact					
Tanforan Ct	Entire Street	Lexington	1	3	2	3	4	4	1	2	250	2" CI		QIP YEAR 3	
North Cleveland Road	1301-2999	Lexington	2	1	5	3	3	3	1	4	250	4" AC			
North Cleveland Road	176-584	Lexington	3	2	5	2	2	4	1	2	250	2" PVC			
Avenue of Champions	Entire Street	Lexington	1	1	2	5	4	2	1	5	245	6" and 12" CI; 6" from 1914 and 12" from 1937; in conjunction with LFUCG project	Y	COMPLETE	
Kenton St	Entire Street	Lexington	1	1	2	5	4	3	1	3	245	4" and 6" CI - 1903, 1909		QIP YEAR 3	
Indiana Ave	Entire Street	Lexington	1	1	2	5	4	3	1	3	245			QIP YEAR 4	
Sutherland Dr	3500 Block	Lexington	1	1	2	4	4	4	1	4	245	2.25" and 8" CI			CASE YEAR 4
Lancelot Ln	Greenlawn to Camelot	Lexington	1	1	2	4	4	4	1	4	245	8" CI	Y	QIP YEAR 2	
Carson Ct	Entire Street	Lexington	1	1	5	4	4	2	1	2	245	6" CI	Y	QIP YEAR 2	
Plainview Rd	Small Section	Lexington	2	1	2	4	4	4	1	1	245	2" CI			CASE YEAR 3
Montavesta Road	2917-2994	Lexington	1	4	2	3	4	1	1	4	245	8" CL	Y	QIP YEAR 2	
Oaklawn Park	Entire Street	Lexington	2	1	2	3	4	4	1	4	245	2" CI		QIP YEAR 3	CASE YEAR 4
Narragansett Park	Entire Street	Lexington	2	1	2	3	4	4	1	4	245	2" and 6" CI		QIP YEAR 3	CASE YEAR 4
Golden Gate Park	Entire Street	Lexington	2	1	2	3	4	4	1	4	245	2.25" and 6" CI	Y	QIP YEAR 3	CASE YEAR 4
Kenil Ct	Entire Street	Lexington	2	1	2	3	4	5	1	2	245	1" CI			CASE YEAR 4
Valley Farm Dr and Ct	Entire Street	Lexington	1	2	2	3	4	4	1	4	245	2.25" and 8" CI	Y	QIP YEAR 2	CASE YEAR 4
Chris Dr and Ct	Entire Street	Lexington	1	2	2	3	4	4	1	4	245	2.25" and 6" CI	Y	QIP YEAR 2	CASE YEAR 4
Tisdale Dr and Ct	Entire Street	Lexington	1	4	2	3	4	1	1	4	245	8" CI	Y	QIP YEAR 2	
Gingertree Cir	3500 Block	Lexington	1	1	4	3	4	4	1	3	245	2" and 6" CI			CASE YEAR 4
Aldershot Dr	3400 Block	Lexington	1	2	2	3	4	4	1	4	245	2.25" and 8" CI	Y	QIP YEAR 3	CASE YEAR 3
Canonero Dr	Entire Street	Lexington	1	2	2	3	4	4	1	4	245	2.25" and 6" CI	Y	QIP YEAR 3	CASE YEAR 4
Newtown Pike	3500-4305	Lexington	1	3	5	3	3	2	1	2	245	6" AC			
Richmond Ave	300 Block	Lexington	1	1	2	5	4	2	1	4	240	6" CI	Y	QIP YEAR 2	CASE YEAR 1
Folkstone Dr	Plainview to RR track	Lexington	1	2	2	5	4	1	1	3	240	16" CI			CASE YEAR 3
Curry Ave	Most of Street	Lexington	1	1	2	5	4	2	1	4	240	6" and 8" CI; 6" is from 1901			CASE YEAR 4
Glenn Pl	Entire Street	Lexington	1	1	2	5	4	2	1	4	240	6" CI; some from 1930s	Y	QIP YEAR 1	
Montclair Dr	Tates Creek Rd to end	Lexington	1	1	2	5	4	2	1	4	240	6" CI	Y	QIP YEAR 2	
Curley Ave	Entire Street	Lexington	1	1	3	5	4	2	1	2	240			QIP YEAR 4	
Lakeshore Dr	Backside of RR to Island	Lexington	1	2	2	5	4	1	1	3	240	16" CI; from 1912			
Journal Ave	Entire Street	Lexington	2	1	2	5	3	2	1	4	240	6" AC	Y	QIP YEAR 1	
Carson Dr	Entire Street	Lexington	1	1	5	4	4	1	1	3	240	8" CI	DELAY	QIP YEAR 3	
Floyd Dr	Small Cluster	Lexington	1	1	2	4	4	5	1	1	240	1" CI			CASE YEAR 5
Bedinger Ct	Entire Street	Lexington	2	2	1	3	4	4	1	2	240	2.25" and 6" CI	Y	QIP YEAR 2	CASE YEAR 4
Yarmouth Ct	Entire Street	Lexington	2	2	1	3	4	4	1	2	240	2" CI	Y	QIP YEAR 2	CASE YEAR 3
Grant Pl	Entire Street	Lexington	2	1	2	3	4	4	1	3	240	2" CI			CASE YEAR 4
Bridgeport Dr	Entire Street	Lexington	2	1	2	3	4	4	1	3	240	2.25" and 6" CI			CASE YEAR 4
Costigan Dr	Entire Street	Lexington	1	2	2	3	4	4	1	3	240	2.25", 6", 8" CI	Y	QIP YEAR 2	CASE YEAR 4
Von List Way	Entire Street	Lexington	1	2	2	3	4	4	1	3	240	2" and 8" CI			CASE YEAR 4
Kelsey Dr and Pl	Entire Street	Lexington	2	3	2	3	4	1	1	3	240	8" CI	Y	QIP YEAR 2	CASE YEAR 3
Ascot Park	Entire Street	Lexington	1	2	2	3	4	4	1	3	240	2" and 6" CI	Y	QIP YEAR 3	CASE YEAR 4
Gemini Trail Road	Entire Street	Georgetown	2	5		3	3	1	1	4	240	6" & 8" AC			
Merino St	500 Block	Lexington	1	1	2	5	4	2	1	3	235	6" CI; from 1884		QIP YEAR 4	CASE YEAR 5
Summit Dr	Montclair Dr to Cooper Dr	Lexington	1	1	2	5	4	2	1	3	235	6" CI	Y	QIP YEAR 2	
Scoville Dr	Montclair Dr to Cooper Dr	Lexington	1	1	2	5	4	2	1	3	235	6" CI	Y	QIP YEAR 2	
Eldemere Dr	Montclair Dr to Cooper Dr	Lexington	1	1	2	5	4	2	1	3	235	6" CI	Y	QIP YEAR 2	
Colonial Dr	John Alden to Mayflower	Lexington	1	1	2	5	4	2	1	3	235	6" CIU and CIL - 1947	Y	QIP YEAR 3	
Dunaway St	Entire Street	Lexington	1	1	2	5	4	2	1	3	235			QIP YEAR 4	
Rosemont Garden	Southland Dr to Clays Mill Rd	Lexington	1	2	2	5	3	1	1	5	235			QIP YEAR 4	
Hialeiah Ct	Entire Street	Lexington	1	1	2	4	4	4	1	2	235	2.25" and 6" CI		QIP YEAR 4	CASE YEAR 3
Hot Springs Ct	Entire Street	Lexington	1	1	2	4	4	4	1	2	235	2.25" and 6" CI		QIP YEAR 4	CASE YEAR 3
Cross Keys Ct	Entire Street	Lexington	1	1	2	4	4	4	1	2	235	2" CI	Y	QIP YEAR 2	CASE YEAR 3
Sheffield Ct	Entire Street	Lexington	1	1	2	4	4	4	1	2	235	2" CI	Y	QIP YEAR 2	CASE YEAR 3
Gentry Rd	100 Block	Lexington	1	2	2	4	4	2	1	3	235	6" CI			CASE YEAR 3
Gayle Cir	Entire Street	Lexington	1	1	2	4	4	4	1	2	235	2" CI			CASE YEAR 3
Waycrosse Cir	Entire Street	Lexington	1	1	2	4	4	4	1	2	235	2" CI			CASE YEAR 3
Toronto Rd	100 and 200 Blocks	Lexington	2	2	2	4	4	1	1	2	235	12" CI			CASE YEAR 3
Middlesex Ct	2800 Block	Lexington	1	1	2	4	4	4	1	2	235	2.25" CI			CASE YEAR 3
Halsted Ct	1500 Block	Lexington	1	1	2	4	4	4	1	2	235	2" and 6" CI			CASE YEAR 3
Kildare Ct	Entire Street	Lexington	1	1	2	4	4	4	1	2	235	2" CI			CASE YEAR 3
Butternut Hill Ct	Entire Street	Lexington	1	1	2	4	4	4	1	2	235	2.25", 6", 8" CI			CASE YEAR 3
Keeneland Ct	1300 Block	Lexington	1	1	2	4	4	4	1	2	235	2.25" and 6" CI		QIP YEAR 4	CASE YEAR 3
Montgomery Ave	600 Block	Lexington	1	2	2	4	4	2	1	3	235	6" CI			CASE YEAR 5
Daniel Ct	2000 Block	Lexington	1	1	2	4	4	4	1	2	235	2" and 6" CI			CASE YEAR 4
Victoria Way	4000 Block	Lexington	2	1	2	3	4	4	1	2	235	2" and 8" CI			CASE YEAR 3
Rittenhouse Ct	1900 Block	Lexington	2	1	2	3	4	4	1	2	235	2" and 6" CI			CASE YEAR 4
Fogo Ct	Entire Street	Lexington	2	1	2	3	4	4	1	2	235	2.25" and 6" CI	Y	QIP YEAR 2	CASE YEAR 4
Karen Ct	Entire Street	Lexington	2	1	2	3	4	4	1	2	235	2.25" CI			CASE YEAR 4



Street/Project	Address	City	Ratings (1-5)									Total Weighted Score	Comments	COMPLETE	QIP YEAR	CASE NO. 2018 00358
			Low Pressure	Number of Breaks/Leaks (data from Jan 2017-June 2022)	Fire Flow	Age	Material Type	Size of Main	Water Quality	Customer Impact						
Heaton Ct	Entire Street	Lexington	1	2	2	3	4	4	1	2	235	2.25" CI	Y	QIP YEAR 2	CASE YEAR 5	
Wood Valley Ct	Entire Street	Lexington	1	2	2	3	4	4	1	2	235	2.25" and 8" CI		QIP YEAR 3	CASE YEAR 4	
Personality Ct	Entire Street	Lexington	1	2	2	3	4	4	1	2	235	2" CI		QIP YEAR 3	CASE YEAR 4	
Delmar Ave	Entire Street	Lexington	1	1	4	3	4	3	1	3	235			QIP YEAR 4		
Newtown Pike	4305-4626	Lexington	2	2	2	3	3	4	1	2	235	3" AC				
Sidwell Lane	204-dead end	Lexington	2	2	5	2	2	4	1	2	235	2" PVC				
E Main St	MLK to Richmond Rd	Lexington	1	1	2	5	4	1	1	4	230	12" and 16" CI; 2x16" from 1900 and 1909			CASE YEAR 5	
Wilson St	Curley to Eastern	Lexington	1	1	2	5	4	2	1	2	230			QIP YEAR 4		
Eastern Ave	E Third to E Short	Lexington	1	1	2	5	4	1	1	4	230			QIP YEAR 4		
Jefferson St	W Short to W Third	Lexington	1	1	2	5	4	1	1	4	230			QIP YEAR 4		
Tower Plz	Entire Street	Lexington	1	1	2	5	4	2	1	2	230			QIP YEAR 4		
Cross St	Entire Street	Lexington	1	1	2	5	4	2	1	2	230			QIP YEAR 4		
Patterson St	Entire Street	Lexington	1	1	2	5	4	2	1	2	230			QIP YEAR 4		
Spring St	Entire Street	Lexington	1	1	2	5	4	2	1	2	230			QIP YEAR 4		
Maxwell St	Broadway to Cross St	Lexington	1	1	2	5	4	1	1	4	230			QIP YEAR 4		
Eastland Parkway	E Cantrill Dr - Biloxi Ct	Lexington	1	2	2	4	4	1	1	4	230	8" CI				
Pennebaker Dr	Entire Street	Lexington	1	2	2	4	4	1	1	4	230	8" CI				
Bryanwood Pkwy	Entire Street	Lexington	1	2	2	4	4	1	1	4	230	8" CI		QIP YEAR 3		
Old Richmond Rd	7641-Durbin Ln	Lexington	1	3		4	3	3	1	4	230	4" AC; replace with 8,500' of 6" DI				
Bahama Road	2030-Winchester Rd.	Lexington	1	3	2	3	4	1	1	4	230	8" CI				
Latoria Park	Entire Street	Lexington	1	1	2	3	4	4	1	4	230	2.25" CI			CASE YEAR 4	
Bellmeade Rd	Entire Street	Lexington	1	1	2	3	4	4	1	4	230	2" and 6" CI			CASE YEAR 4	
Pepperhill Rd	Gingertree to Simcoe	Lexington	2	2	2	3	4	1	1	4	230	8" CI				
Mirahill Dr	Entire Street	Lexington	1	1	2	3	4	4	1	4	230	2.25" and 6" CI	Y	QIP YEAR 2	CASE YEAR 5	
Wyse Sq	Entire Street	Lexington	1	1	4	3	4	2	1	4	230	6" CI				
Osage Ct	Entire Street	Lexington	1	1	5	3	4	2	1	2	230	6" CI			CASE YEAR 3	
Burton Road	578-1457	Georgetown	2	3		3	3	3	1	4	230	4" & 3" AC; replace with 10,200' of 6" DI				
Schoolhouse Lane	Entire Street	Winchester	1	2		2	2	4	5	2	230	2" & 3" PVC; Continuous Flushing				
Breckenwood Dr	Small Section	Lexington	1	1		5	4	4	1	1	225	2" CI			CASE YEAR 2	
W Main St	Vine to Old Georgetown	Lexington	1	2		5	4	1	1	4	225	8" CI; from 1884				
Eastland Drive	Industry Rd-New Circle Rd	Lexington	2	2		4	4	1	1	4	225	8" CI				
Meadow Lane	950-1199	Lexington	1	1	2	4	4	2	1	4	225	6" CL				
Beacon Hill Rd	1900 Block	Lexington	2	1	2	4	4	1	1	3	225	8" CI			CASE YEAR 2	
Terrace View Dr	Entire Street	Lexington	2	1	2	4	4	1	1	3	225	8" CI	Y	QIP YEAR 1	CASE YEAR 3	
Cardiff Ln	Entire Street	Lexington	1	2	2	4	4	1	1	3	225	8" CI - 1969	Y	QIP YEAR 3		
Rebel Rd	2000 Block + Court	Lexington	1	1	2	3	4	4	1	3	225	2" CI			CASE YEAR 2	
Mulberry Dr and Ct	Entire Street	Lexington	1	1	2	3	4	4	1	3	225	2" and 8" CI	Y	QIP YEAR 2	CASE YEAR 3	
Waterford Park	3200 Block	Lexington	1	1	2	3	4	4	1	3	225	2.25" and 6" CI		QIP YEAR 3	CASE YEAR 4	
Fraserdale Dr	Entire Street	Lexington	1	2	2	3	4	2	1	4	225	6" CI	Y	QIP YEAR 2		
Ak-sar-ben Park	Entire Street	Lexington	1	1	2	3	4	4	1	3	225	2" and 6" CI	Y	QIP YEAR 3	CASE YEAR 4	
Codell Dr	Woodhill to Palumbo	Lexington	1	1	2	3	4	4	1	3	225	8" CI	Y	QIP YEAR 2		
Leesburg-Newtown Road	100-1899	Paris	2	3		3	3	3	1	3	225	4" AC				
Niagara Dr	Trout to End	Lexington	1	2	2	2	4	4	1	3	225	2" and 8" CI		QIP YEAR 4	CASE YEAR 4	
Caywood Dr	Entire Street	Lexington	1	2	1	4	4	1	1	4	220	8" CI	Y	QIP YEAR 2		
Tateswood Dr	600 Block	Lexington	1	1	2	4	4	2	1	3	220	6" CI			CASE YEAR 3	
Turner Station Road	Entire Street	Lexington	1	1	4	4	3	2	1	2	220	6" AC				
Lewis St	Entire Street	Lexington	2	1	2	3	4	2	1	3	220	6" CI			CASE YEAR 3	
Kilkenny Ct	Entire Street	Lexington	1	1	2	3	4	4	1	2	220	2" CI			CASE YEAR 3	
Plumtree Ct	2400 Block	Lexington	1	1	2	3	4	4	1	2	220	2.25" and 6" CI			CASE YEAR 4	
Thornberry Ct	2400 Block	Lexington	1	1	2	3	4	4	1	2	220	2.25" and 6" CI			CASE YEAR 4	
Woodlake Way	Entire Street	Lexington	2	1	2	3	4	2	1	3	220	6" CI			CASE YEAR 4	
Warwick Ct	Entire Street	Lexington	1	1	2	3	4	4	1	2	220	2" and 6" CI			CASE YEAR 4	
Brandon Ct	Entire Street	Lexington	1	1	2	3	4	4	1	2	220	2" CI			CASE YEAR 4	
Windwood Ct	Entire Street	Lexington	1	1	2	3	4	4	1	2	220	2.25" and 6" CI	Y	QIP YEAR 2	CASE YEAR 5	
Winnipe Ct	Entire Street	Lexington	1	1	2	3	4	4	1	2	220	2" and 6" CI			CASE YEAR 4	
Newtown Pike	3290-3500	Lexington	1	2	5	3	3	1	1	2	220	8" AC				
Montrose Drive	Entire Street	Lexington	1	1	2	4	4	1	1	4	215	8" CI; replace w/ approx. 1,000 of 8" DI				
Caywood Cir	Entire Street	Lexington	1	1	2	4	4	2	1	2	215	6" CI	Y	QIP YEAR 2		
Woodstock Cir	Entire Street	Lexington	1	1	2	4	4	2	1	2	215	6" CI		QIP YEAR 3		
Caulder Rd	Entire Street	Lexington	1	1	2	4	4	1	1	4	215			QIP YEAR 4		
Kilkenny Dr	End of Street	Lexington	1	2	2	3	4	1	1	4	215	8" CI				
Moore Dr	Entire Street	Lexington	1	2	2	3	4	1	1	4	215	12" CI			CASE YEAR 5	
Bassett Ave	Entire Street	Lexington	2	1	2	3	4	1	1	4	215	8" CI		IN DESIGN		
Stephen Foster Dr	Ox Hill to End	Lexington	1	2	2	3	4	1	1	4	215	8" CI		QIP YEAR 3		
Grace Dr	Entire Street	Lexington	1	2	2	3	4	2	1	2	215	6" CI	Y	QIP YEAR 3		
River Park Dr	Centre Pkwy to Armstrong Mill	Lexington	1	2	2	3	4	1	1	4	215	8" CI	Y	QIP YEAR 3		
Lakeshore Dr	Island	Lexington	1	2	2	3	4	1	1	4	215	12" CI				



Street/Project	Address	City	Ratings (1-5)								Total Weighted Score	Comments	COMPLETE	QIP YEAR	CASE NO. 2018 00358
			Low Pressure	Number of Breaks/Leaks (data from Jan 2017-June 2022)	Fire Flow	Age	Material Type	Size of Main	Water Quality	Customer Impact					
Wilderness Rd	Entire Street	Lexington	2	2	2	3	3	1	1	4	215	8" AC			
Iron Works Pike	1600-289	Lexington	1	1	5	3	3	1	1	4	215	8" AC			
Coolidge St	Entire Street	Lexington	1	1	4	2	4	2	1	4	215	6" CI		QIP YEAR 3	
Robertson St	300 Block	Lexington	1	2	4		4	4	1	3	215	2" and 6" CI		IN DESIGN	CASE YEAR 5
Trepassey Ct	Entire Street	Lexington	1	1	1	3	4	4	1	2	210	2.25" and 6" CI			CASE YEAR 5
Hedgewood Ct	Whole Complex	Lexington	1	1	2	3	4	2	1	4	210	6" and 8" CI			CASE YEAR 4
Skain St	Entire Street	Lexington	1	1	2	3	4	3	1	2	210			QIP YEAR 4	
Jane St	Entire Street	Lexington	1	1	4	2	4	2	1	3	210	6" and 8" CI		QIP YEAR 3	
Lagonda Ave	Entire Street	Lexington	1	1	2	3	4	2	1	3	205	6" CI			CASE YEAR 1
US 25	Hurricane Hall Rd-Lisle Rd	Lexington	1	3		3	3	2	1	4	205	6" AC			
Spruce St	200 Block	Lexington	2	1	2	2	4	2	1	3	205	6" CI	Y	QIP YEAR 1	CASE YEAR 1
Aqueduct Dr	Half of Street	Lexington	1	1	2	3	4	1	1	4	200	8" CI			
Merrimac Dr	Entire Street	Lexington	1	1	2	3	4	1	1	4	200	8" CI	Y	QIP YEAR 2	
Dove Run Rd	Entire Street	Lexington	1	1	2	3	4	2	1	2	200	Coordination with LFUCG sewer project		QIP YEAR 4	
Newtown Pike	4626-5022	Lexington	2	1		3	3	4	1	2	200	2 1/4" AC			
Carriage Lane	Entire Street	Lexington	1	2	2	3	3	1	1	4	200	8" AC			
Grassy Creek Drive	3881-3929	Lexington	1	2	1	3	3	1	1	4	190	8" AC			
Elk Lake		Owenton	2	1		3	2	3	1	5	190	Various water mains			
Georgetown Rd	6000-14200	Owenton	2	1		3	2	3	1	4	185	4"			
Leestown Road	Scott Co.	Georgetown	1	3	2	2	2	1	1	3	180	8" C900 PVC			
Carrick Pike	100-1698	Georgetown	1	3	1	2	2	1	1	4	175	8" C900 & PVC			
Deer Haven Lane	1000-1361	Lexington	1	2	2	2	2	1	1	4	170	12" PVC			
KY 330	2600	Owenton	2	1		3	2	2	1	2	165	Road has slipped and affected the ability to maintain the main			



**QIP Contractors Contact Information**

<b>Contractor</b>	<b>Main Contact Person</b>	<b>Person to Copy</b>	<b>Additional Person to Copy</b>	<b>Additional Person to Copy</b>
<b>CJ Hughes</b> [Redacted]	Dave Combs [Redacted]	Shawn Clark [Redacted]	Chris Combs [Redacted]	CJH Bids [Redacted]
<b>Dix Construction Mgt.</b> [Redacted]	Justin Dix [Redacted]	Tracie Thom [Redacted]	[Redacted]	
<b>Ed Hall</b> [Redacted]	Tyler Hall [Redacted]	Ed Hall [Redacted]	Bob Walters [Redacted]	
<b>Infrastructure Systems</b> [Redacted]	Jon Stalker [Redacted]			
<b>Lagco, Inc.</b> [Redacted]	Bruce Kuntz [Redacted]	Jarrod Conn [Redacted]	Blake Johnson [Redacted]	
<b>Little Creek Construction</b> [Redacted]	Tom Colley [Redacted]	Becky Tolliver [Redacted]	Ellen Colley [Redacted]	
<b>MAC Construction</b> [Redacted]	John Kraft [Redacted]			
<b>Revivify</b> [Redacted]	David Treece [Redacted]	Brett Collins [Redacted]		
<b>RT Infrastructure</b> [Redacted]	Jason Tirey [Redacted]			
<b>TFH, LLC</b> [Redacted]	Zane Friley [Redacted]	Tom Friley [Redacted]		
<b>Todd Johnson</b> [Redacted]	Jeremy Johnson [Redacted]	Linda Johnson [Redacted]	Hunter Jefferies [Redacted]	Amanda Johnson [Redacted]
<b>HG Wilson &amp; Sons Contracting</b> [Redacted]	Chris [Redacted]			
<b>Tri State Paving</b> [Redacted]	David Corns [Redacted]	Bill Corns [Redacted]		



QIP Year	Project Name	WBS Number(s)	Total Linear Feet	Estimated Project Cost	Total Project Cost as of June 30, 2022	Variance as of June 30, 2022	Plant Additions July 2022-January 2023	Variance including July 2022-January 2023	Reason for Variance
2	Thistleton Circle	R12-02B2.20-P-0020	276	\$73,140	\$32,019	(\$41,121)	\$0	(\$41,121)	<b>Reason for Variance:</b> Actual linear footage installed was less than estimated. Water main installation work performed by Kentucky American Water crews.
2	Crosskeys Court	R12-02B2.20-P-0021	230	\$60,950	\$50,801	(\$10,149)	\$0	(\$10,149)	<b>Reason for Variance:</b> Water main installation work was performed by Kentucky American Water crews. Actual linear footage installed was less than estimated, and the water main was able to be installed largely in the utility strip rather than under pavement, both of which resulted in cost savings.
2	Croyden Court	R12-02B2.20-P-0022	482	\$127,730	\$159,471	\$31,741	\$0	\$31,741	<b>Reason for Variance:</b> Estimated cost included 4' paving width; actual pavement required was full curb-to-curb width plus all cul-de-sacs. Water main installation work performed by Kentucky American Water crews.
2	Fairway - Phase I	R12-02B2.20-P-0010 R12-02B2.21-P-0050 R12-02B2.21-P-0051	2,940	\$775,000	\$1,191,832	\$416,832	\$84,591	\$501,423	<b>Reason for Variance:</b> Additional cold patch (temporary asphalt) was required along the entire length of the project prior to final pavement restoration. Proposed connection points along Henry Clay Blvd required full intersection pavement restoration. More service lines required replacement compared to estimated.
2	Wyatt Avenue	R12-02B2.20-P-0024 R12-02B2.21-P-0028 R12-02B2.21-P-0029 R12-02B2.21-P-0030	4,050	\$1,532,500	\$1,134,090	(\$398,410)	(\$1,941)	(\$400,351)	<b>Reason for Variance:</b> Actual linear footage installed was less than estimated. Amount of pavement restoration required was in line with pavement restoration estimates. Pending final paving.
2	Bluegrass/Highlawn	R12-02B2.20-P-0026	1,017	\$625,000	\$359,423	(\$265,577)	(\$2,762)	(\$268,339)	<b>Reason for Variance:</b> Actual linear footage installed was less than estimated. Post-June 30 paving restoration work is not reflected in total project cost. The paving for this project is being cost-shared with LFUCG.
2	Codell Drive	R12-02B2.20-P-0027 R12-02B2.21-P-0036 R12-02B2.21-P-0037	5,476	\$1,312,500	\$1,408,343	\$95,843	\$251,917	\$347,760	<b>Reason for Variance:</b> Approximately 250 additional linear feet of main were installed compared to estimated. Amount of pavement restoration required was in line with pavement restoration estimates.
2	N Ashland/Aurora	R12-02B2.20-P-0028 R12-02B2.21-P-0034 R12-02B2.21-P-0035	5,255	\$1,000,000	\$698,858	(\$301,142)	\$791,595	\$490,453	<b>Reason for Variance:</b> Approximately 800 additional linear feet of main were installed compared to estimated.
2	National Avenue	R12-02B2.20-P-0029	3,100	\$875,000	\$806,461	(\$68,539)	(\$59,034)	(\$127,573)	<b>Reason for Variance:</b> Some paving was completed in fall 2022. Pending final paving in spring 2023.
2	Whitney/Ash	R12-02B2.20-P-0030 R12-02B2.21-P-0039 R12-02B2.21-P-0040 R12-02B2.21-P-0041 R12-02B2.21-P-0042 R12-02B2.21-P-0043	6,720	\$1,650,000	\$2,017,587	\$367,587	\$1,002,936	\$1,370,523	<b>Reason for Variance:</b> Approximately 120 additional linear feet of main were installed compared to estimated. Additional cold patch (temporary asphalt) was required along the entire length of the project prior to final pavement restoration. Nearly all service lines required replacement compared to estimated.
2	Clays Mill Road - Phase II	R12-02B2.21-P-0018 R12-02B2.21-P-0019 R12-02B2.21-P-0020	7,220	\$1,575,000	\$1,804,892	\$229,892	\$259,317	\$489,209	<b>Reason for Variance:</b> Additional main installation costs required due to a storm sewer alignment change. Additional costs incurred on project to uncover valve boxes covered by LFUCG's roadway contractor during project. The paving for this project is being cost-shared with LFUCG.
2	Montclair Drive	R12-02B2.21-P-0002	2,200	\$550,000	\$527,192	(\$22,808)	\$245,670	\$222,862	<b>Reason for Variance:</b> Curb-to-curb paving was required, although the paving for this project was cost-shared with LFUCG.
2	Summit Drive	R12-02B2.21-P-0003 R12-02B2.21-P-0052 R12-02B2.21-P-0053	2,850	\$725,000	\$788,952	\$63,952	\$148,250	\$212,202	<b>Reason for Variance:</b> Kentucky American Water encountered several brittle house service lines that failed upon re-connection. Curb-to-curb paving was required, although the paving for this project was cost-shared with LFUCG.
2	Valley Farm	R12-02B2.21-P-0015	5,306	\$1,350,000	\$1,437,054	\$87,054	\$181,753	\$268,807	<b>Reason for Variance:</b> Estimated cost included 5' paving width; actual pavement required was full lane width (~8').
2	Colchester/Barksdale	R12-02B2.21-P-0016 R12-02B2.21-P-0031 R12-02B2.21-P-0032 R12-02B2.21-P-0033	3,555	\$925,000	\$911,958	(\$13,042)	\$284,044	\$271,002	<b>Reason for Variance:</b> Actual linear footage installed was less than estimated. Estimated paving cost included 5' paving width; actual pavement required was full lane width (~8').



QIP Year	Project Name	WBS Number(s)	Total Linear Feet	Estimated Project Cost	Total Project Cost as of June 30, 2022	Variance as of June 30, 2022	Plant Additions July 2022-January 2023	Variance including July 2022-January 2023	Reason for Variance
2	Campbell Lane	R12-02B2.21-P-0004	507	\$275,000	\$222,708	(\$52,292)	\$25,405	(\$26,887)	Reason for Variance: Actual linear footage installed was less than estimated.
2	Westgate/Hamilton Park	R12-02B2.21-P-0005 R12-02B2.21-P-0054	3,600	\$900,000	\$609,347	(\$290,653)	\$1,288,405	\$997,752	Reason for Variance: Estimated paving cost included 5' paving width; actual pavement required was full curb-to-curb in most areas.
2	Lancelot	R12-02B2.21-P-0007 R12-02B2.21-P-0055	2,500	\$617,500	\$612,822	(\$4,678)	\$497,688	\$493,010	Reason for Variance: Estimated paving cost included 5' paving width; actual pavement required was full curb-to-curb in most areas.
2	Kilrush/Caywood	R12-02B2.21-P-0008 R12-02B2.21-P-0056 R12-02B2.21-P-0057 R12-02B2.21-P-0058	5,239	\$1,567,500	\$1,012,319	(\$555,181)	\$1,155,123	\$599,942	Reason for Variance: Estimated paving cost included 5' paving width; actual pavement required "parking lane widths" of ~6' plus all intersections and full cul-de-sac bulbs.
2	Merrimac/Fogo/Crewe	R12-02B2.21-P-0012 R12-02B2.21-P-0044 R12-02B2.21-P-0045	3,041	\$860,000	\$484,693	(\$375,307)	\$966,571	\$591,264	Reason for Variance: Estimated paving cost included 5' paving width; actual pavement required "parking lane widths" of ~6' plus all intersections and full cul-de-sac bulbs.
2	Tisdale/Fraserdale	R12-02B2.21-P-0013 R12-02B2.21-P-0059 R12-02B2.21-P-0060	5,056	\$1,322,500	\$1,575,173	\$252,673	\$128,819	\$381,492	Reason for Variance: Estimated paving cost included 5' paving width; actual pavement required "parking lane widths" of ~6' plus all intersections and full cul-de-sac bulbs.
2	Montavesta Road	R12-02B2.21-P-0009 R12-02B2.21-P-0046 R12-02B2.21-P-0047 R12-02B2.21-P-0048 R12-02B2.21-P-0049	3,904	\$1,087,500	\$374,878	(\$712,622)	\$443,507	(\$269,115)	Reason for Variance: Paving restoration is scheduled for spring of 2023. Water main installation work was performed by Kentucky American Water crews.
3	Birkenhead Dr/Ct	R12-02B2.21-P-0014	1700	\$450,500			\$694,795	\$244,295	Reason for Variance: Estimated paving cost included 8' paving width; actual pavement required was in line with widths but also included intersections and full cul-de-sac bulbs.
3	Cardiff Dr	R12-02B2.21-P-0062	1100	\$291,500			\$307,524	\$16,024	Reason for Variance: Estimated paving cost included 8' paving width; actual pavement required was in line with widths but also included intersections and full cul-de-sac bulbs.
3	Aldershot Dr	R12-02B2.21-P-0063	1200	\$318,000			\$389,414	\$71,414	Reason for Variance: Estimated paving cost included 8' paving width; actual pavement required was in line with widths but also included intersections and full cul-de-sac bulbs.
3	Cardigan Ct	R12-02B2.21-P-0064	500	\$132,500			\$195,817	\$63,317	Reason for Variance: Estimated paving cost included 8' paving width; actual pavement required was in line with widths but also included intersections and full cul-de-sac bulbs.
3	Colonial Dr	R12-02B2.21-P-0010	2400	\$636,000			\$538,911	(\$97,089)	Reason for Variance: Project is still underway, pending completion of restoration work in spring 2023.
3	Standish Way	R12-02B2.21-P-0065	2200	\$583,000			\$266,134	(\$316,866)	Reason for Variance: Project is still underway, pending completion of restoration work in spring 2023.
3	River Park Dr	R12-02B2.21-P-0070	1950	\$516,750			\$525,864	\$9,114	Reason for Variance: Project is still underway, pending completion of service line and restoration work. This area is a potential paving cost-share with LFUCG.
3	Golden Gate Park	R12-02B2.21-P-0071	500	\$132,500			\$74,705	(\$57,795)	Reason for Variance: Project is still underway, pending completion of service line and restoration work. This area is a potential paving cost-share with LFUCG.
3	Atokad Park	R12-02B2.21-P-0072	650	\$172,250			\$96,973	(\$75,277)	Reason for Variance: Project is still underway, pending completion of service line and restoration work. This area is a potential paving cost-share with LFUCG.
3	Beulah Park Ct	R12-02B2.21-P-0073	350	\$92,750			\$71,897	(\$20,853)	Reason for Variance: Project is still underway, pending completion of service line and restoration work. This area is a potential paving cost-share with LFUCG.
3	Ak Sar Ben Park	R12-02B2.21-P-0074	800	\$212,000			\$105,421	(\$106,579)	Reason for Variance: Project is still underway, pending completion of service line and restoration work. This area is a potential paving cost-share with LFUCG.



QIP Year	Project Name	WBS Number(s)	Total Linear Feet	Estimated Project Cost	Total Project Cost as of June 30, 2022	Variance as of June 30, 2022	Plant Additions July 2022-January 2023	Variance including July 2022-January 2023	Reason for Variance
3	Ascot Park	R12-02B2.21-P-0075	750	\$198,750			\$102,260	(\$96,490)	Reason for Variance: Project is still underway, pending completion of service line and restoration work. This area is a potential paving cost-share with LFUCG.
3	Kentucky Ave South	R12-02B2.21-P-0076	1500	\$397,500			\$888,523	\$491,023	Reason for Variance: Nearly all service lines along this road required full replacement and additional plumbing services. This area is a temporary concrete restoration pilot project with LFUCG.
3	Kentucky Ave North	R12-02B2.21-P-0077	1570	\$416,050			\$513,730	\$97,680	Reason for Variance: Nearly all service lines along this road required full replacement and additional plumbing services. This area is a temporary concrete restoration pilot project with LFUCG.
3	Woodland Ave North	R12-02B2.21-P-0078	1600	\$424,000			\$628,073	\$204,073	Reason for Variance: Nearly all service lines along this road required full replacement and additional plumbing services. This area is a temporary concrete restoration pilot project with LFUCG.
3	American Ave	R12-02B2.21-P-0079	2100	\$556,500			\$329,110	(\$227,390)	Reason for Variance: Project is still underway, pending completion of service line and restoration work.
3	Southern Ave	R12-02B2.21-P-0080	650	\$172,250			\$64,033	(\$108,217)	Reason for Variance: Project is still underway, pending completion of service line and restoration work.
3	Camden Ave	R12-02B2.21-P-0081	550	\$145,750			\$53,526	(\$92,224)	Reason for Variance: Project is still underway, pending completion of service line and restoration work.
3	Stanley Ave	R12-02B2.21-P-0082	400	\$106,000			\$55,201	(\$50,799)	Reason for Variance: Project is still underway, pending completion of service line and restoration work.
3	Lone Oak Dr/Southbend Dr	R12-02B2.21-P-0083	1750	\$463,750			\$244,908	(\$218,842)	Reason for Variance: Project is still underway, pending completion of service line and restoration work.
3	Canonero/Gunbow/Personality	R12-02B2.21-P-0097	1340	\$355,100			\$370,590	\$15,490	Reason for Variance: Project is still underway, pending completion of service line and restoration work.
3	Derby Dr	R12-02B2.21-P-0100	890	\$235,850			\$39,668	(\$196,182)	Reason for Variance: Project is still underway, pending completion of restoration work in spring 2023.
3	Chrysalis Ct	R12-02B2.22-P-0007	350	\$92,750			\$106,679	\$13,929	Reason for Variance: Slight additions to materials and pavement quantities.
3	Toner St/Sheila Ct/Harken Ct	R12-02B2.22-P-0010	900	\$238,500			\$330,838	\$92,338	Reason for Variance: Nearly all service lines along this road required full replacement and additional plumbing services. This area is a historic area and additional protection measures were needed during restoration.
3	Elsmere Park	R12-02B2.22-P-0011	850	\$225,250			\$402,293	\$177,043	Reason for Variance: Nearly all service lines along this road required full replacement and additional plumbing services. This area is a historic area and additional protection measures were needed during restoration.

Total Linear Feet / Total Miles	Total Estimated Project Costs	Total Project Costs as of June 30, 2022	Total Variances	Plant Additions July 2022-January 2023	Variance including July 2022-January 2023
103,074 19.5	\$27,352,570	\$18,220,871	-\$1,565,949	\$15,088,742	\$5,957,043