

CAPITAL IMPROVEMENT PLAN

***for* FY 2019-2028**

Project Sheets – Public Utilities

City of Franklin, Tennessee
CIP FY2019-2028
FY 19 thru FY 28

PROJECTS BY CATEGORY

Category	#	Priority	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Public Utilities													
16" Water Line Long Lane Connector	WM16001	2			120,000	50,000	1,000,000	1,000,000					2,170,000
Bishop Branch Interceptor	WM16002	2							230,000	500,000	3,080,000		3,810,000
Old Carters Creek Pike Water Line Replacement	WM16003	3		480,000									480,000
Adams Street Infrastructure Improvements	WM16005	4	105,000	1,215,000									1,320,000
Advanced Metering Infrastructure (AMI)	WM16006	3		200,000	550,000	550,000	500,000						1,800,000
Alicia Drive Water Line Replacement	WM16007	2					61,500						61,500
Battle Avenue Infrastructure Replacement	WM16008	2				200,000	1,787,500						1,987,500
Berry Circle Sanitary Sewer Line Rehabilitation	WM16009	2				93,000							93,000
Bobby Drive Water Line Replacement	WM16010	4	430,000	425,000									855,000
Buckworth Infrastructure Improvements	WM16011	3				110,000							110,000
Church Street Infrastructure Improvements	WM16012	4	50,000	346,500									396,500
Grassland Tank Demolition	WM16013	1									270,000		270,000
Eastview Circle Infrastructure Improvements	WM16014	2						50,000	515,500				565,500
Evans Street Sewer Improvements	WM16015	4	32,000	420,500									452,500
Forrest Street Infrastructure Improvements	WM16017	3			332,500								332,500
Frazier Drive Sanitary Sewer Rehabilitation	WM16019	4	50,000										50,000
Gist Street Infrastructure Improvements	WM16020	3			40,000	360,000							400,000
Glass Lane Water Line Replacement	WM16021	1									20,000	235,000	255,000
Westview Apt Water Line Replacement (510 96W)	WM16022	2								10,000	100,000		110,000
Holiday Court Lift Station Rehabilitation	WM16023	4	400,000										400,000
Lee Drive Water Line Replacement	WM16025	2						15,000	72,000				87,000
Bonsal Way Water Line Replacement	WM16026	2		10,000	110,000								120,000
Liberty Pike Water Line Replacement	WM16027	2									25,000	330,000	355,000
Manley Lane Dead End Removal	WM16028	1							50,000	345,000	100,000		495,000
Morning Side Drive Water Line Replacement	WM16029	1									100,000	10,000	110,000
Murfreesboro Road Water line Replacement	WM16030	3				90,000	900,000						990,000
Old Hillsboro Road Water Line	WM16032	2								80,000	295,000		375,000
New Hope Academy Sewer Line Replacement	WM16033	4		50,000									50,000
Scruggs Avenue Water Line Replacement	WM16036	2							20,000	175,000			195,000

Category	#	Priority	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
South Prong Sanitary Sewer Upgrade	WM16037	1								2,450,000			2,450,000
Spencer Creek Sanitary Sewer Replacement	WM16038	4	1,520,000										1,520,000
Highway 96W Water Line Replacement	WM16040	4	240,000										240,000
West End Circle Infrastructure Improvements	WM16041	3		10,000	117,000								127,000
West Main Infrastructure Improvements	WM16042	2						400,000	2,900,000	2,900,000			6,200,000
Sewer Interceptor Point Repair Projects	WM19001	4	500,000	500,000									1,000,000
Sewer Lateral CIPP Lining	WM19002	4	100,000	100,000									200,000
Sewer Rehabilitation On-Call Services (mains)	WM19003	4	400,000	450,000									850,000
Rehabilitation of Moore's Lane & Hillsboro Rd PS	WM19004	4	102,730										102,730
Sewer Rehabilitation On-Call Services (manholes)	WM19005	4	100,000	100,000									200,000
Oakwood Transmission Main Improvements	WM19006	3			200,000	960,000	285,000	450,000					1,895,000
Walnut Drive Water Improvements	WM19007	3			180,000								180,000
Cummins Street Water Improvements	WM19008	3			75,000								75,000
Carolyn Avenue Infrastructure Improvements	WM19009	1									410,000		410,000
Confederate Drive Sewer Improvements	WM19010	2						340,000					340,000
Colthran Drive Water Improvements	WM19011	1									120,000		120,000
Green Acres Drive Water Line Improvements	WM19012	1									120,000		120,000
Perkins Drive Water Improvements	WM19013	2								240,000			240,000
Maple Street Sewer Improvements	WM19014	3				306,000							306,000
Natchez Street Sewer Improvements	WM19015	3			720,000								720,000
Lewisburg Avenue Sewer Improvements	WM19016	2					30,000	200,000					230,000
Unidentified Wastewater Improvement Projects	WM19017	4	200,000	550,000									750,000
Public Utilities Total			4,229,730	4,857,000	2,444,500	2,719,000	4,564,000	2,455,000	3,787,500	6,725,000	4,945,000	245,000	36,971,730
GRAND TOTAL			4,229,730	4,857,000	2,444,500	2,719,000	4,564,000	2,455,000	3,787,500	6,725,000	4,945,000	245,000	36,971,730

Category	#	Priority	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
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Report criteria:

All Contacts

All Departments

All Priority Levels

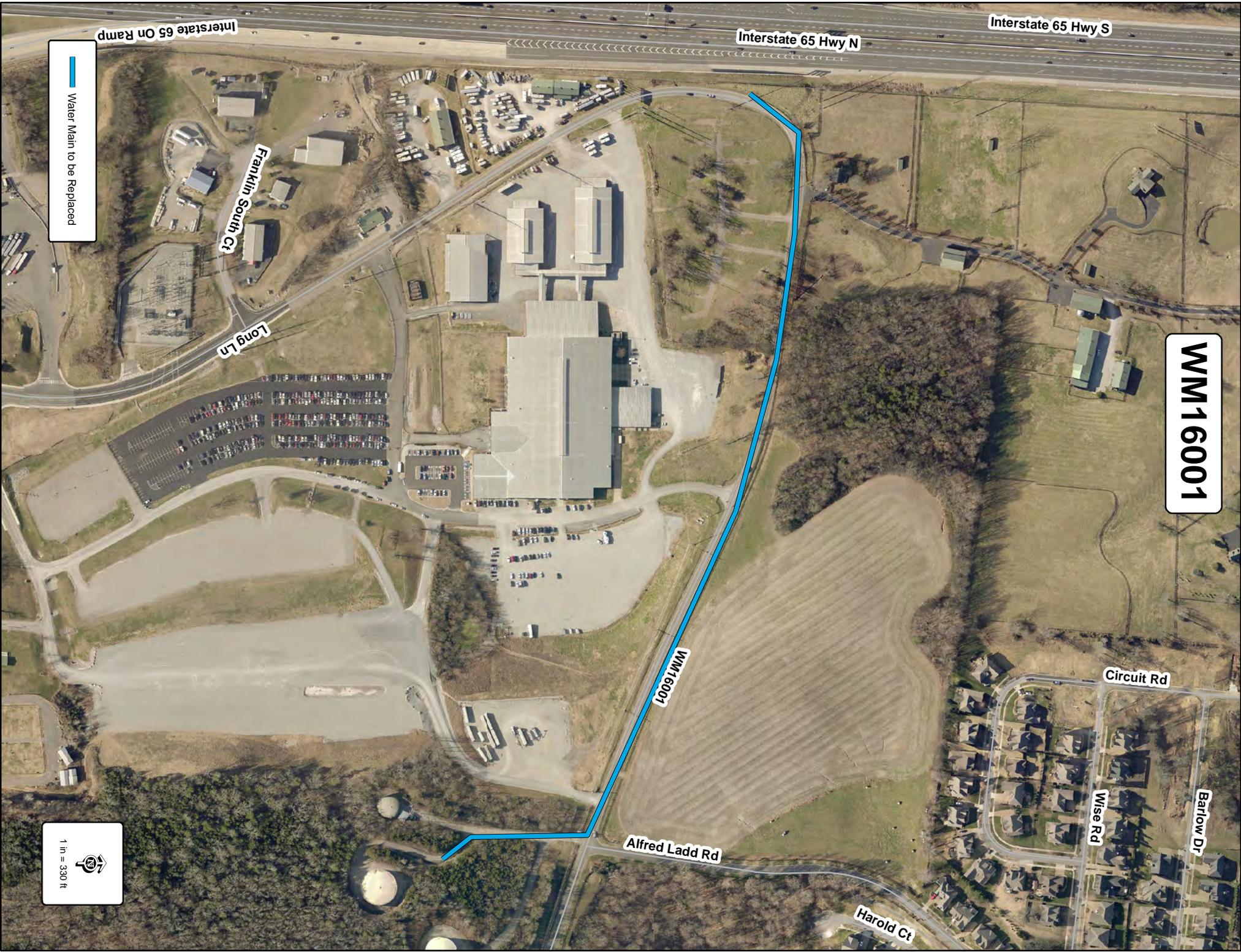
All Projects

All Source Types

Status: Active or Funding Obligated or Not Funded or Pending

Category: Public Utilities

Type: E or I or M or N or Z



Water Main to be Replaced

1 in = 330 ft

WMM16001

Interstate 65 On Ramp

Interstate 65 Hwy N

Interstate 65 Hwy S

Franklin South Ct

Long Ln

WMM16001

Alfred Ladd Rd

Harold Ct

Circuit Rd

Wise Rd

Barlow Dr

Project # WM16001
Project Name 16" Water Line Long Lane Connector

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Description	Total Cost \$2,170,000
Replacing the existing 8-inch ductile iron water line to a 16-inch water main from I-65 to Long Lane Reservoir along the newly planned alignment of the road.	

Justification
Provide adequate domestic and fire flow to the Goose Creek area for future and existing customers.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)			120,000								120,000
ROW and Easements				50,000							50,000
Construction					1,000,000	1,000,000					2,000,000
Total			120,000	50,000	1,000,000	1,000,000					2,170,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Capacity			60,000	25,000	500,000	500,000					1,085,000
Water Renewal			60,000	25,000	500,000	500,000					1,085,000
Total			120,000	50,000	1,000,000	1,000,000					2,170,000

Project #	WM16002
Project Name	Bishop Branch Interceptor

Department Water Management
Contact Water Management Director
Type New
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Description	Total Cost \$3,810,000
<p>Future development is anticipated on the east side of the Goose Creek Interchange. When this area develops, the gravity sewer from the Ladd Park interceptor will need to be extended down to Bishop Branch. The extension is approximately 12,000 LF.</p> <p>Anticipate design to begin in FY 2025, ROW acquisition to begin in FY 2026, and construction to begin in FY 2027.</p>	

Justification
<p>This area has great economic development potential. The Ladd Park Interceptor does not have the capacity to handle additional, dense development.</p>

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)							230,000				230,000
ROW and Easements								500,000			500,000
Construction Engineering / Inspection									80,000		80,000
Construction										3,000,000	3,000,000
Total							230,000	500,000	3,080,000		3,810,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Wastewater Capacity							230,000	500,000	1,540,000	1,540,000	3,810,000
Total							230,000	500,000	1,540,000	1,540,000	3,810,000



WMM16003

Sewer to be Replaced
Water Main to be Replaced

1 in = 420 ft

Access

Marigold Dr

Alley

Rosebud Cir

Scruggs Ave

Cothran Dr

Dabney Dr

Davidson Dr

Bradford Dr

Horton Ct

Horton Ln

Carter's Creek Pike

W Main St

WM16003

Old Carter's Creek Pike

WM16050

WM16036

Carters Glen Pl

Access

Velena St

WM16042

Project #	WM16003
Project Name	Old Carters Creek Pike Water Line Replacement

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 3 Star Project
Status Pending

Total Cost \$559,498

Description

Replacement of approximately 3,200 LF of 6-inch cast iron water line from West Main Street to terminus of Franklin's water system along Old Carter's Creek Pike. Phase 2 will consist of looping the line, however, Phase 2 will occur at later date based upon development in this area.

Justification

Line is over 60 years old. The project will improve water loss, water age, fire flow and water quality for this area.

Prior	Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
79,498	Construction		480,000									480,000
Total	Total		480,000									480,000

Prior	Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
79,498	Water Renewal		480,000									480,000
Total	Total		480,000									480,000



Legend:
Green line: Sewer to be Replaced
Blue line: Water Main to be Replaced

WM16005

1 in = 330 ft

Street names visible on the map include: Battle Ave, Alley, Everbright Ave, Columbia Ave, Granbury St, Strahl St, W Fowlkes St, Gist St, Battlefield Dr, Fristoe Ln, Jennings St, Adams Ct, Cleburne St, Parkview Dr, Ritzy St, WM16048, Carolyn Ave, WM16048, Generals Retreat, WM16020, WM16020, WM16005, Adams St, WM16005, WM16055, Stewart St, Lewisburg Ave, WM16039, Thompson Aly, Meadowlawn Dr, Bel Aire Dr, Mercury Dr, Sunset Dr, Highland Ave, and E Fowlkes St.

Project #	WM16005
Project Name	Adams Street Infrastructure Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Pending

Total Cost \$1,320,000

Description
Replacement of 2,875 LF of water line. Upgraded size to be determined during design.
Replacement of 2,875 LF of existing 8" sanitary sewer line. Upgraded size to be determined during design.
Anticipate both projects are entirely renewal versus capacity.

Justification
Lines are approximately 60 years old and have served their useful life. Area has been subject to pressure, disinfection residuals, and flow issues on water line. Sanitary sewer is subject to infiltration and inflow and occasional obstructions.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)	105,000										105,000
Construction Engineering / Inspection		40,000									40,000
Construction		1,175,000									1,175,000
Total	105,000	1,215,000									1,320,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal		510,000									510,000
Wastewater Renewal		810,000									810,000
Total		1,320,000									1,320,000

Project #	WM16006
Project Name	Advanced Metering Infrastructure (AMI)

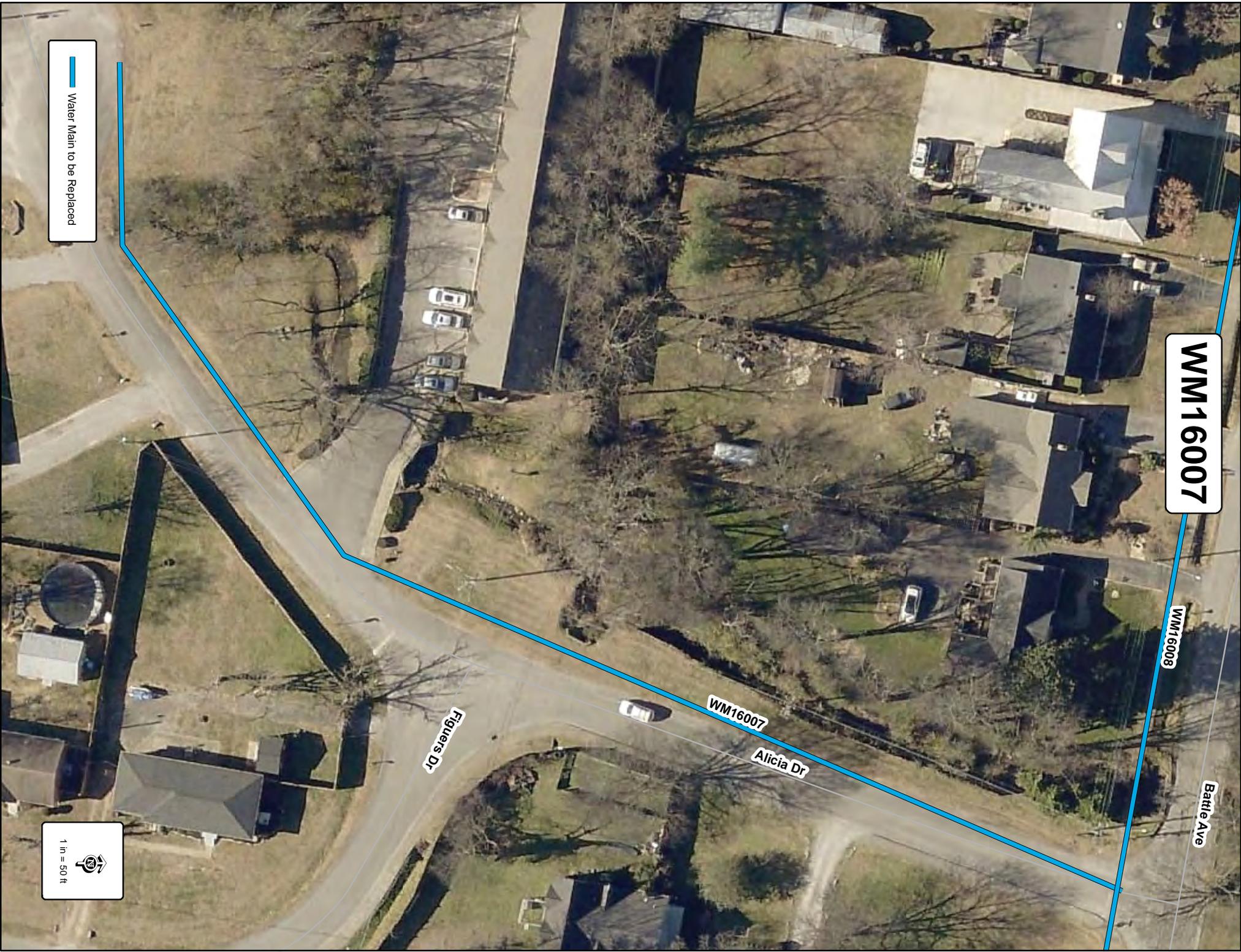
Department Water Management
Contact Water Management Director
Type Equipment
Useful Life 20+
Category Public Utilities
Priority 3 Star Project
Status Pending

Description	Total Cost \$1,800,000
Replace current AMR system with AMI equipment. Equipment will provide hourly consumption readings at meter points. These data will help improve customer service, complaint resolution, reduced fuel costs, among other benefits.	

Justification
Current system is approaching service life. Transition will replace failing equipment and will improve customer focus.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Equip/Vehicles/Furnishings		200,000	550,000	550,000	500,000						1,800,000
Total		200,000	550,000	550,000	500,000						1,800,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal		200,000	550,000	550,000	250,000	250,000					1,800,000
Total		200,000	550,000	550,000	250,000	250,000					1,800,000



WMM16007

WMM16008

Battle Ave

WMM16007

Alicia Dr

Figuers Dr

 **Water Main to be Replaced**


1 in = 50 ft

Project # WM16007
Project Name Alicia Drive Water Line Replacement

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Description **Total Cost** \$61,500
Replace existing 6" transite water line (size to be determined during design) for the length of Alicia Drive (615 LF).
Plan to perform the design and construction work in house, however will need external surveying.

Justification
Transite line is approximately 60 years old. Line performs well in terms of water quality, however, the material of the line introduces operational problems when maintenance is necessary.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction					61,500						61,500
Total					61,500						61,500

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal					61,500						61,500
Total					61,500						61,500

Project #	WM16008
Project Name	Battle Avenue Infrastructure Replacement

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Total Cost \$1,987,500

Description

Replace 3,750 LF of transite and cast iron water line.
 Replace 3,750 LF of clay sanitary sewer line.
 Project will performed in councion with WM16007, Alicia Drive water line replacement to avoid repair to the road twice and disruption to homeowners more than once.

Justification

Water and sanitary sewer lines are approximatley 70 years old. There is a significant amount of I/I, particularly on the western side of the project area. The water is subject to potential quality issues and maintenance issues.due to the material of the line.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)				200,000							200,000
Construction Engineering / Inspection					60,000						60,000
Construction					1,727,500						1,727,500
Total				200,000	1,787,500						1,987,500

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal				80,000	582,500						662,500
Wastewater Renewal				120,000	1,205,000						1,325,000
Total				200,000	1,787,500						1,987,500



WMM 16009

Lewisburg Ave

WMM 16009

Berry Cir

Access

1 in = 80 ft

Sewer to be Replaced

Project # WM16009
Project Name Berry Circle Sanitary Sewer Line Rehabilitation

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Description Rehabilitation of 480 feet of 6-inch clay sanitary sewer and three manholes. **Total Cost** \$93,000

Justification The clay line has root intrusion and I/I issues. New development at the end of the line has highlighted operational issues with the line.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction				93,000							93,000
Total				93,000							93,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Wastewater Renewal				93,000							93,000
Total				93,000							93,000

Project # WM16010
Project Name Bobby Drive Water Line Replacement

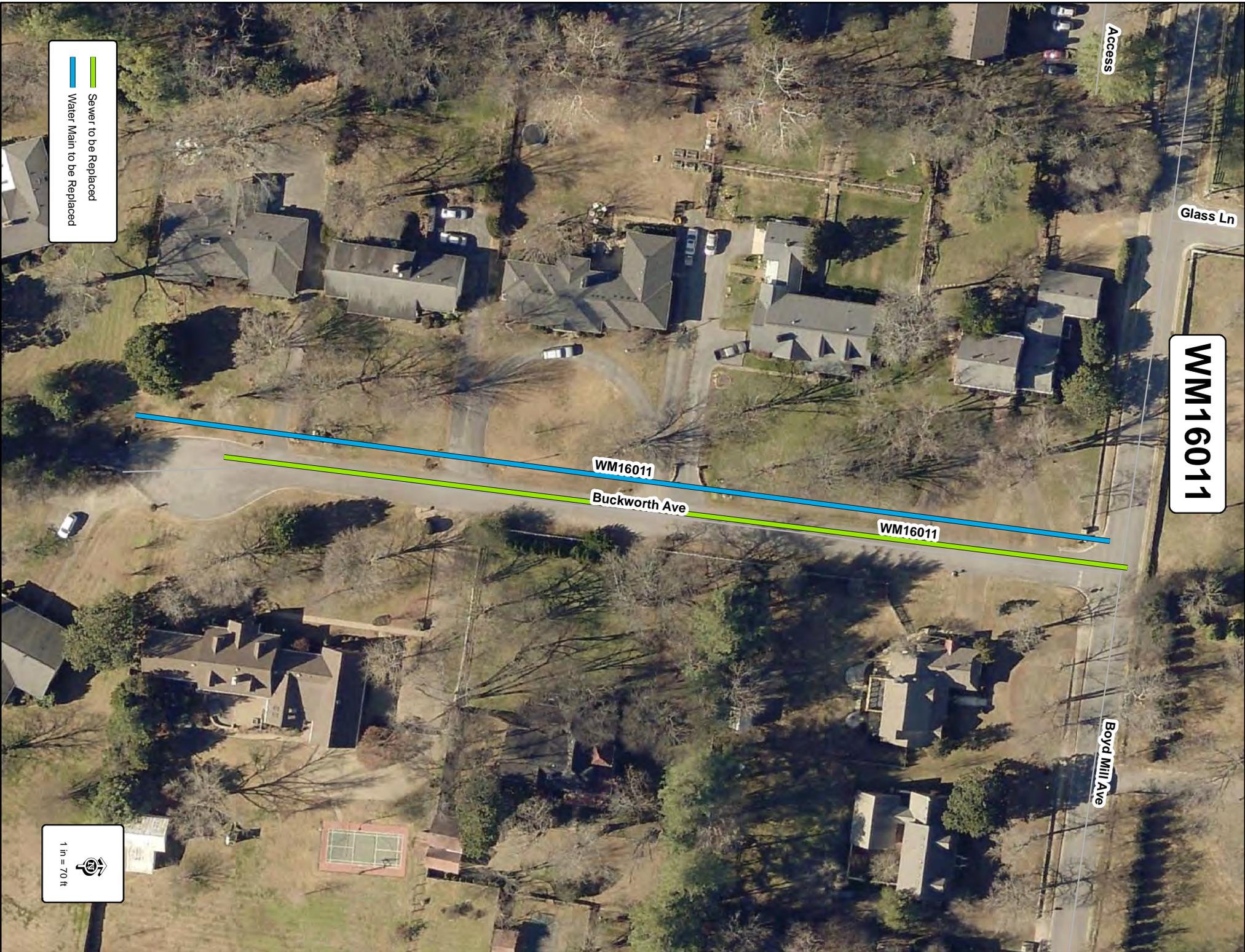
Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Active

Description **Total Cost** \$938,000
Replacement of approximately 5,700 LF of 4-inch, 6-inch, and 2-inch water line from Hillsboro Road to Bradley Drive.

Justification
Improve water quality and fire flow in this area. Line is approximately 50 years old. There have been numerous breaks in this line.

Prior	Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
83,000	Construction	430,000	425,000									855,000
Total	Total	430,000	425,000									855,000

Prior	Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
83,000	Water Renewal	430,000	425,000									855,000
Total	Total	430,000	425,000									855,000



WM16011

Glass Ln

Access

Boyd Mill Ave

WM16011

Buckworth Ave

WM16011

 Sewer to be Replaced
 Water Main to be Replaced


 1 in = 70 ft

Project # WM16011
Project Name Buckworth Infrastructure Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 3 Star Project
Status Pending

Description **Total Cost** \$110,000
Replace approximately 600 LF of 8-inch transite water line.
Rehabilitate approximately 550 LF of 8-inch clay sanitary sewer line. Rehabilitate one manhole and install one manhole at the end of the line in Buckworth Avenue.
Design & construction for this project will be performed in-house.

Justification
Both water and sanitary sewer lines are approximately 60 years old. There have been several operational issues that have required significant repairs.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction				110,000							110,000
Total				110,000							110,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal				90,000							90,000
Wastewater Renewal				20,000							20,000
Total				110,000							110,000



WMM16012

— Sewer to be Replaced
— Water Main to be Replaced

1 in = 80 ft

5th Ave S

4th Ave S

Church St

3rd Ave S

Alley

WMM16012

WMM16012

Project #	WM16012
Project Name	Church Street Infrastructure Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Pending

Total Cost \$396,500

Description

Replace 910 LF of cast iron, galvanized and copper 0.75-inch, 1.5-inch, 2-inch and 4-inch water line (size to be determined during design) from 3rd Avenue South to 5th Avenue South.

Replace 600 LF of 4-inch clay sanitary sewer line from the middle of Church between 3rd Avenue South and 4th Avenue South to the middle of Church between 4th Avenue South and 5th Avenue South.

This road is also in need of rehabilitation and additional traffic safety controls, and roadwork will be performed by the Street Department once infrastructure upgrades have been completed.

Justification

Water line has reached the service life. Project will improve water quality and flow in the area.

Sanitary sewer line requires monthly cleaning to avoid obstructions. Line is undersized and has I/I issues.

Road repair will be completed by the Streets Department.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)	50,000										50,000
Construction		346,500									346,500
Total	50,000	346,500									396,500

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal	25,000	136,500									161,500
Wastewater Renewal	25,000	210,000									235,000
Total	50,000	346,500									396,500

Project #	WM16013
Project Name	Grassland Tank Demolition

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life
Category Public Utilities
Priority 1 Star Project
Status Pending

Description	Total Cost \$270,000
Take Grassland Tank offline in support of IWRP modeling.	

Justification
Finished water reservoir provides no effective storage capacity. Reservoir requires frequent maintenance activities to cycle water.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction Engineering / Inspection									20,000		20,000
Construction									250,000		250,000
Total									270,000		270,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal									270,000		270,000
Total									270,000		270,000

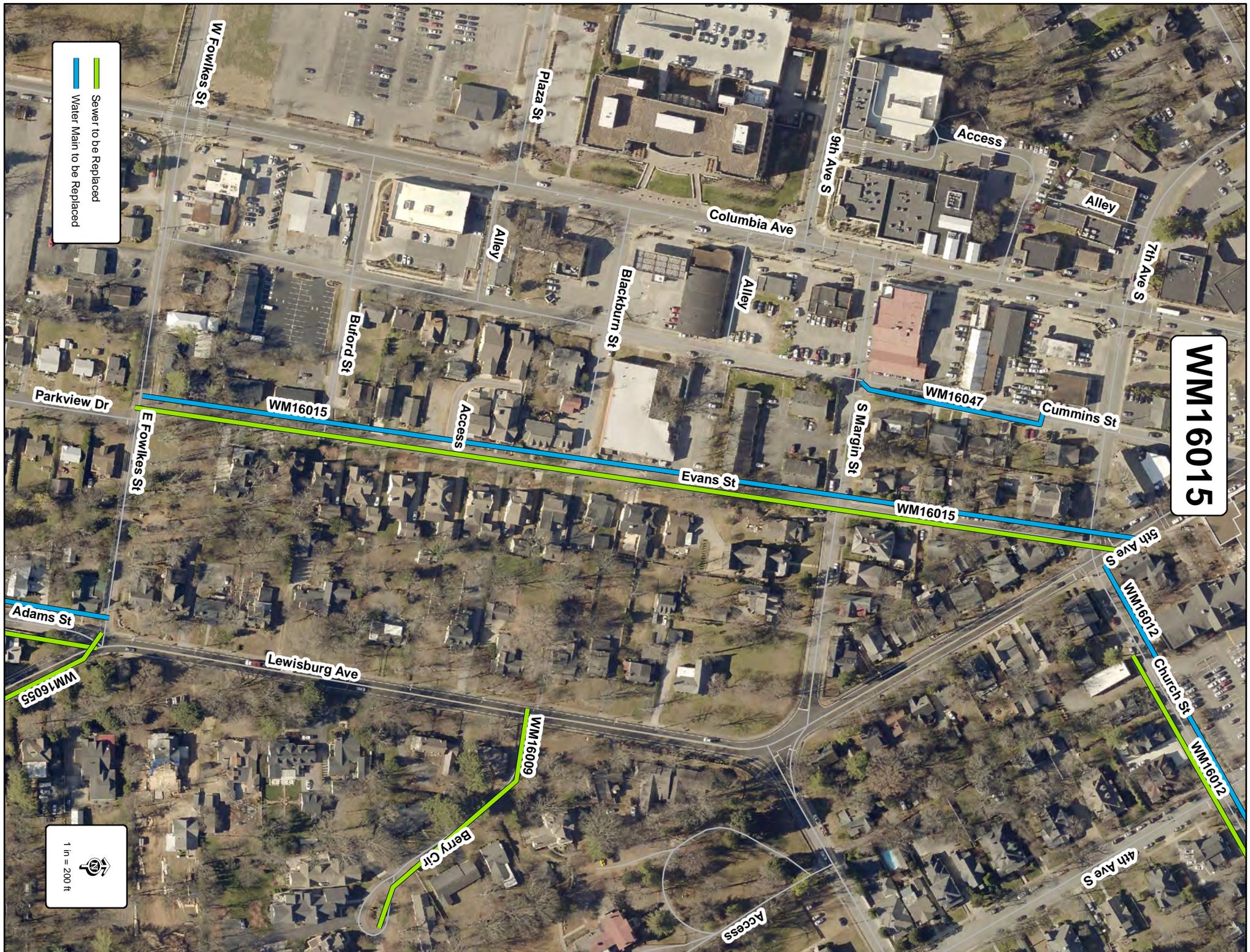
Project # WM16014
Project Name Eastview Circle Infrastructure Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Description	Total Cost \$565,500
Replace 850 LF of 8 inch clay sanitary sewer	
Replace 2020 LF of 6 inch transite and cast iron pipe	
Justification	
To replace approximately 70 year old infrastructure. Improve maintenance issues and reduce infiltration and inflow in this area.	

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)						50,000					50,000
Construction							515,500				515,500
Total						50,000	515,500				565,500

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal						30,000	303,000				333,000
Wastewater Renewal						20,000	212,500				232,500
Total						50,000	515,500				565,500



Legend:
Green line: Sewer to be Replaced
Blue line: Water Main to be Replaced

WM16015

1 in = 200 ft

Project # WM16015
Project Name Evans Street Sewer Improvements

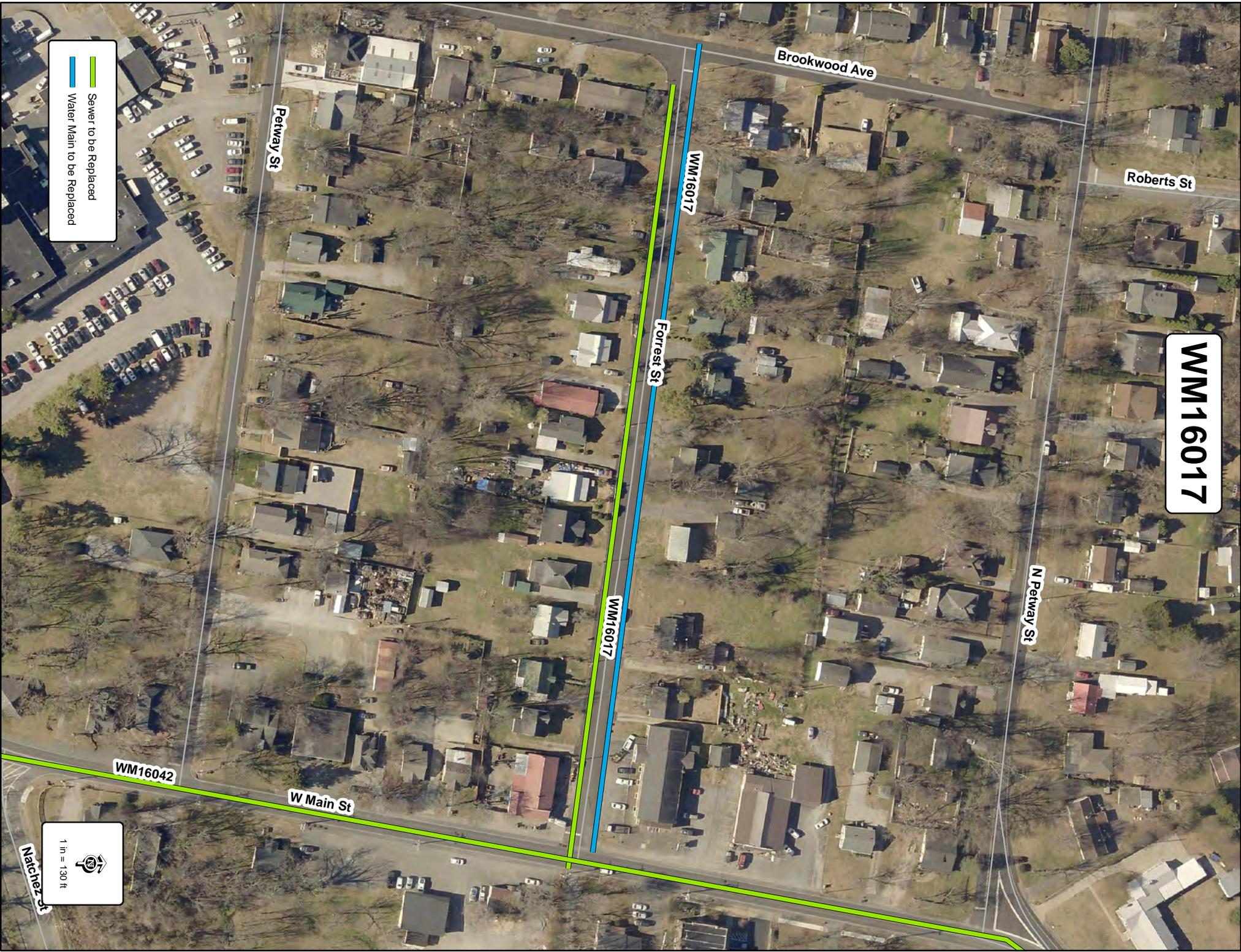
Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Pending

Description **Total Cost** \$452,500
Replace 1,690 LF of 8-inch clay sanitary sewer and replacement of 4 manholes.

Justification
Replace 70 year old sanitary sewer. This line has significant I/I .

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)	32,000										32,000
Construction		420,500									420,500
Total	32,000	420,500									452,500

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Wastewater Renewal		452,500									452,500
Total		452,500									452,500



 Sewer to be Replaced
 Water Main to be Replaced

WM16017

WM16017

Forrest St

WM16017

WM16042

Petway St

Brookwood Ave

Roberts St

N Petway St

W Main St

Natchez St


 1 in = 130 ft

Project #	WM16017
Project Name	Forrest Street Infrastructure Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 3 Star Project
Status Pending

Description	Total Cost \$332,500
Replace 900 LF of 2-inch galvanized water main. Replace 790 LF of 6-inch clay sanitary sewer line rehabilitate 2 manholes and install 1 new manhole. Design & construction of this project will be done in house.	

Justification
To replace 70 year old infrastructure Water line needs replaced to improve water quality issues and flow . Sewer line is undersized and requires routine maintenance.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction			332,500								332,500
Total			332,500								332,500

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal			130,000								130,000
Wastewater Renewal			202,500								202,500
Total			332,500								332,500

WM16019

WM16019

— Sewer to be Replaced

1 in = 30 ft



Project #	WM16019
Project Name	Frazier Drive Sanitary Sewer Rehabilitation

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Pending

Description	Total Cost \$50,000
Rehabilitation of a section of 8" DIP sanitary sewer that is sagging and requires frequent cleaning.	
Project will be completed along with the Spencer Creek interceptor upgrades.	

Justification
Existing sanitary sewer line has a low point that requires ongoing maintenance to prevent obstructions. The line has caused a sanitary sewer overflow prior to initiation of ongoing maintenance.

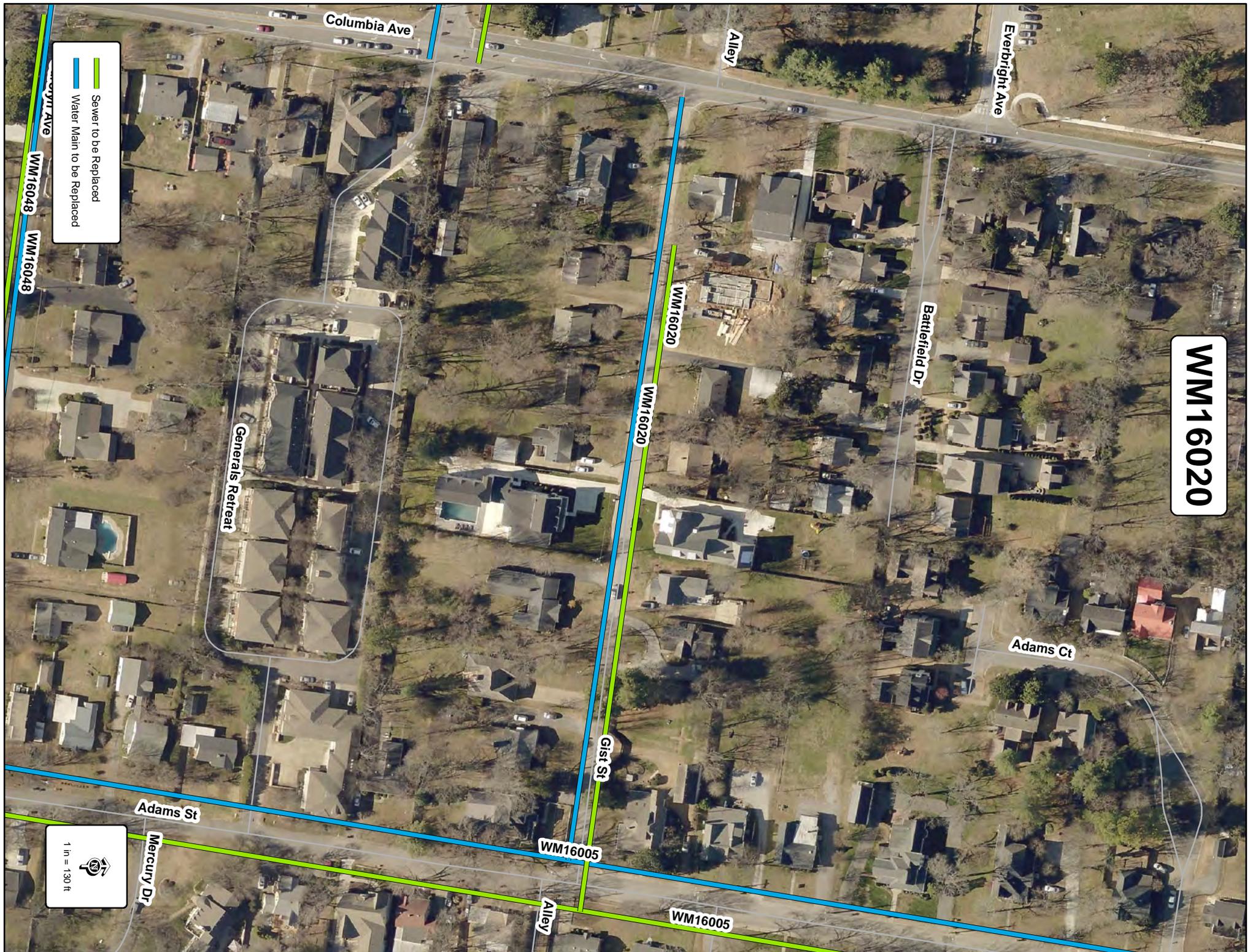
Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction	50,000										50,000
Total	50,000										50,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Wastewater Renewal	50,000										50,000
Total	50,000										50,000

WM16020

Sewer to be Replaced
Water Main to be Replaced

1 in = 130 ft



Project #	WM16020
Project Name	Gist Street Infrastructure Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 3 Star Project
Status Pending

Description	Total Cost \$400,000
Replace 750 LF of 6-inch clay sanitary sewer line	
Replace 890 LF of 6-inch CIP water line.	

Justification
Sanitary sewer line is subject to I/I. Sewer line is 6-inch in diameter and needs to be sized at an 8-inch line.
Water line is subject to failure and needs to be routed in a location better suited for operation and maintenance.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)			40,000								40,000
Construction				360,000							360,000
Total			40,000	360,000							400,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal		135,000	15,000								150,000
Wastewater Renewal			25,000	225,000							250,000
Total		135,000	40,000	225,000							400,000

Project # WM16021 Project Name Glass Lane Water Line Replacement

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 1 Star Project
Status Pending

Description	Total Cost \$255,000
Replace 1,550 LF of CIP 6-inch water line from Highway 96W to the intersection of 11th Avenue N and Mt Hope Street.	

Justification
Water line has reached useful life. Line is of various sizes. Replacement will improve domestic and fire flows in the area of Johnson Elementary School and two apartment complexes.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)									20,000		20,000
Construction										235,000	235,000
Total									20,000	235,000	255,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal									20,000	235,000	255,000
Total									20,000	235,000	255,000

Project # WM16022
Project Name Westview Apt Water Line Replacement (510 96W)

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Description	Total Cost \$110,000
Replace 2-inch and 1-inch water line through the Westview Apartment Complex.	

Justification
Line requires upsizing to improve service to customers. Will improve onsite fire protection and water quality.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)								10,000			10,000
Construction									100,000		100,000
Total								10,000	100,000		110,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal								10,000	100,000		110,000
Total								10,000	100,000		110,000

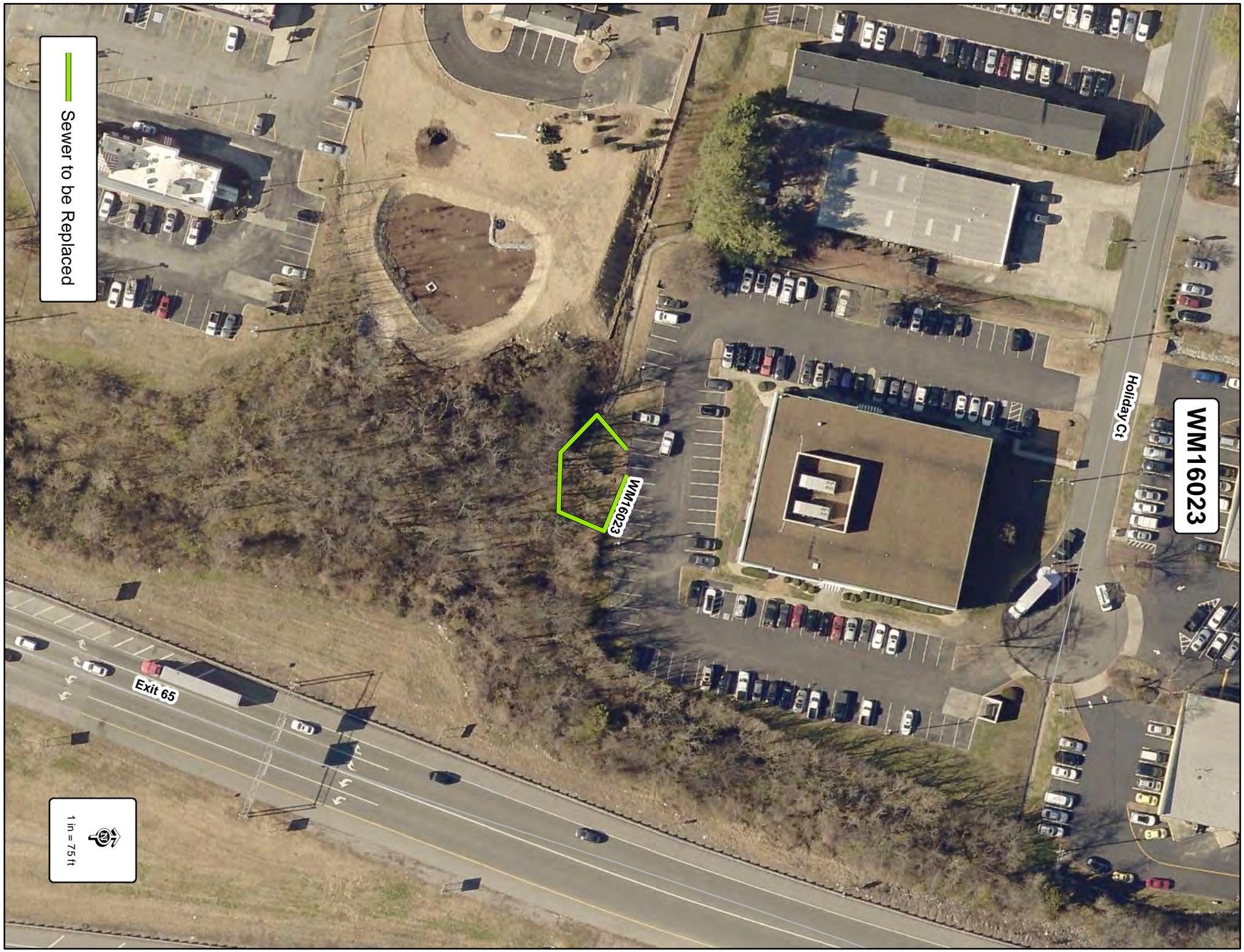
WM16023

Holiday Ct

WM16023

Sewer to be Replaced

1 in = 7.5 ft



Project #	WM16023
Project Name	Holiday Court Lift Station Rehabilitation

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Pending

Total Cost \$460,000

Description

Rehabilitation of a 43 year old sanitary sewer lift station. Replace "can" station with a submersible pump station, new electrical controls and SCADA improvements.

Justification

Existing configuration requires operators to frequently enter a confined space. Proposed configuration provides for reduced risk relative to operator safety. Station has exceeded useful life.

Prior	Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
60,000	Construction	400,000										400,000
Total	Total	400,000										400,000

Prior	Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
60,000	Wastewater Renewal	400,000										400,000
Total	Total	400,000										400,000

Project # WM16025 Project Name Lee Drive Water Line Replacement
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Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Description	Total Cost \$87,000
Replace 480 LF of CIP water line from Warrior Drive to Ellington Drive, along Lee Drive.	

Justification
Water line is approximately 50 years old. A tributary is eroding parallel to the line and has the potential to cause structural failure of the line in the future. Remove line from under mature pine trees.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)						15,000					15,000
Construction							72,000				72,000
Total						15,000	72,000				87,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal						15,000	72,000				87,000
Total						15,000	72,000				87,000

WM16026

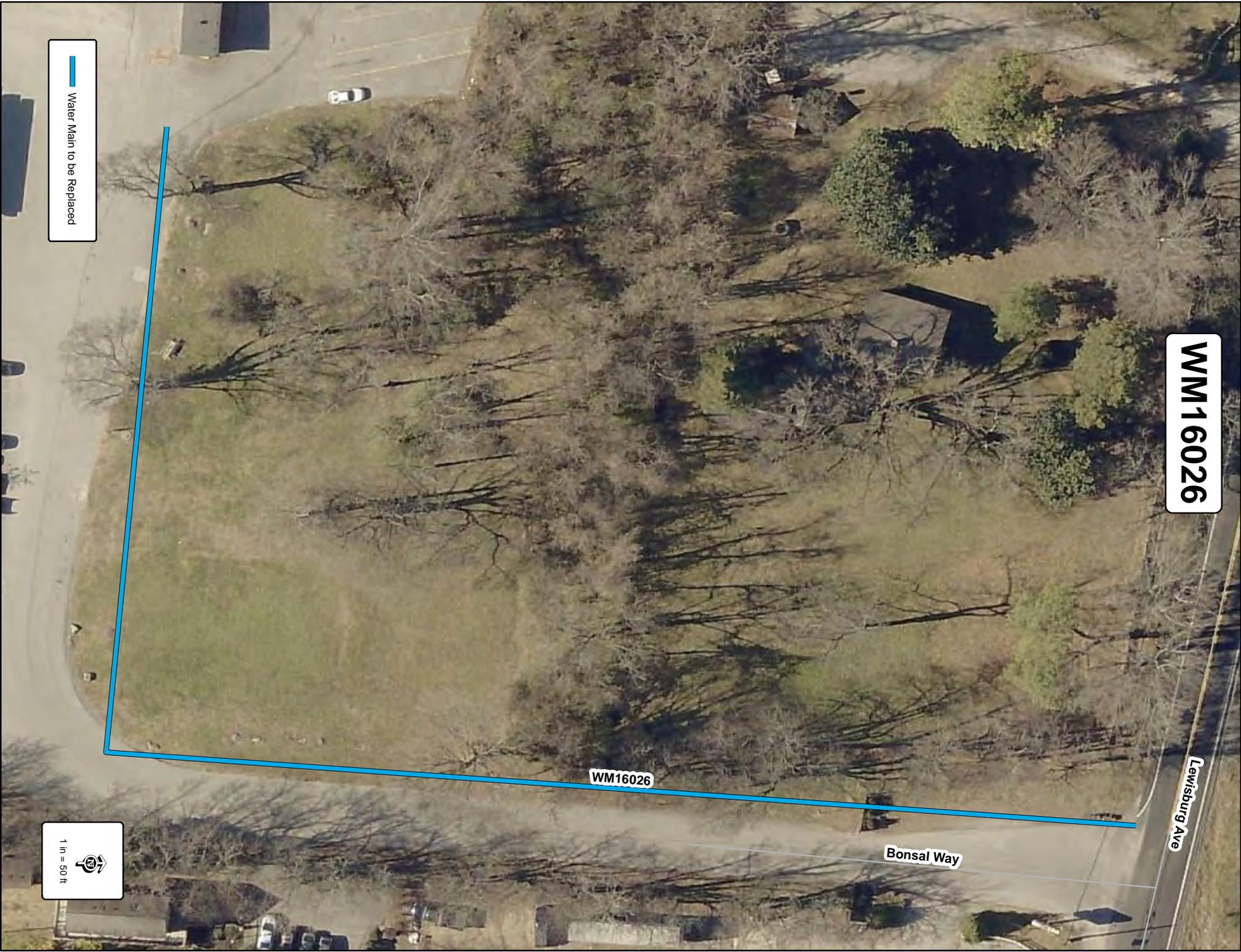
Lewisburg Ave

Bonsal Way

WM16026

 Water Main to be Replaced


1 in = 50 ft



Project #	WM16026
Project Name	Bonsal Way Water Line Replacement

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Description	Total Cost \$120,000
Remove 4-inch line; move services from 4-inch to 12-inch; replace 730 LF of 6-inch transite on Bonsal Way.	
Plan to perform construction in house.	
Justification	
Line has reached it useful life . Improve fire flow at lumber yard .	

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)		10,000									10,000
Construction			110,000								110,000
Total		10,000	110,000								120,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal		10,000	110,000								120,000
Total		10,000	110,000								120,000

Project # **WM16027**
 Project Name **Liberty Pike Water Line Replacement**

Department Water Management
 Contact Water Management Director
 Type Improvement
 Useful Life 20+
 Category Public Utilities
 Priority 2 Star Project
 Status Pending

Total Cost \$355,000

Description

From Eddy Lane to Sycamore; upgrade with 2,200 feet of 10-inch ductile iron pipe.

Justification

Line is 50+ years old and requires a significant amount of maintenance. Replaced line will improve water quality.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)								25,000			25,000
Construction									330,000		330,000
Total								25,000	330,000		355,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal								25,000	330,000		355,000
Total								25,000	330,000		355,000

Project # WM16028
Project Name Manley Lane Dead End Removal

Department Water Management
Contact Water Management Director
Type New
Useful Life 20+
Category Public Utilities
Priority 1 Star Project
Status Pending

Description	Total Cost \$495,000
Install 2,300 feet of 8-inch DIP.	

Justification
To eliminate two dead end water lines and improve water flow and redundancy to the area and reduce water age for the system.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)							50,000				50,000
ROW and Easements									100,000		100,000
Construction								345,000			345,000
Total							50,000	345,000	100,000		495,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal							50,000	100,000	345,000		495,000
Total							50,000	100,000	345,000		495,000

Project #	WM16029
Project Name	Morning Side Drive Water Line Replacement

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 1 Star Project
Status Pending

Description	Total Cost \$110,000
Replace 680 LF of 6-inch CIP on Morningside Drive.	

Justification
Water line is approximately 60 years old and has reached the end of service life, requires frequent maintenance.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)										10,000	10,000
Construction									100,000		100,000
Total									100,000	10,000	110,000

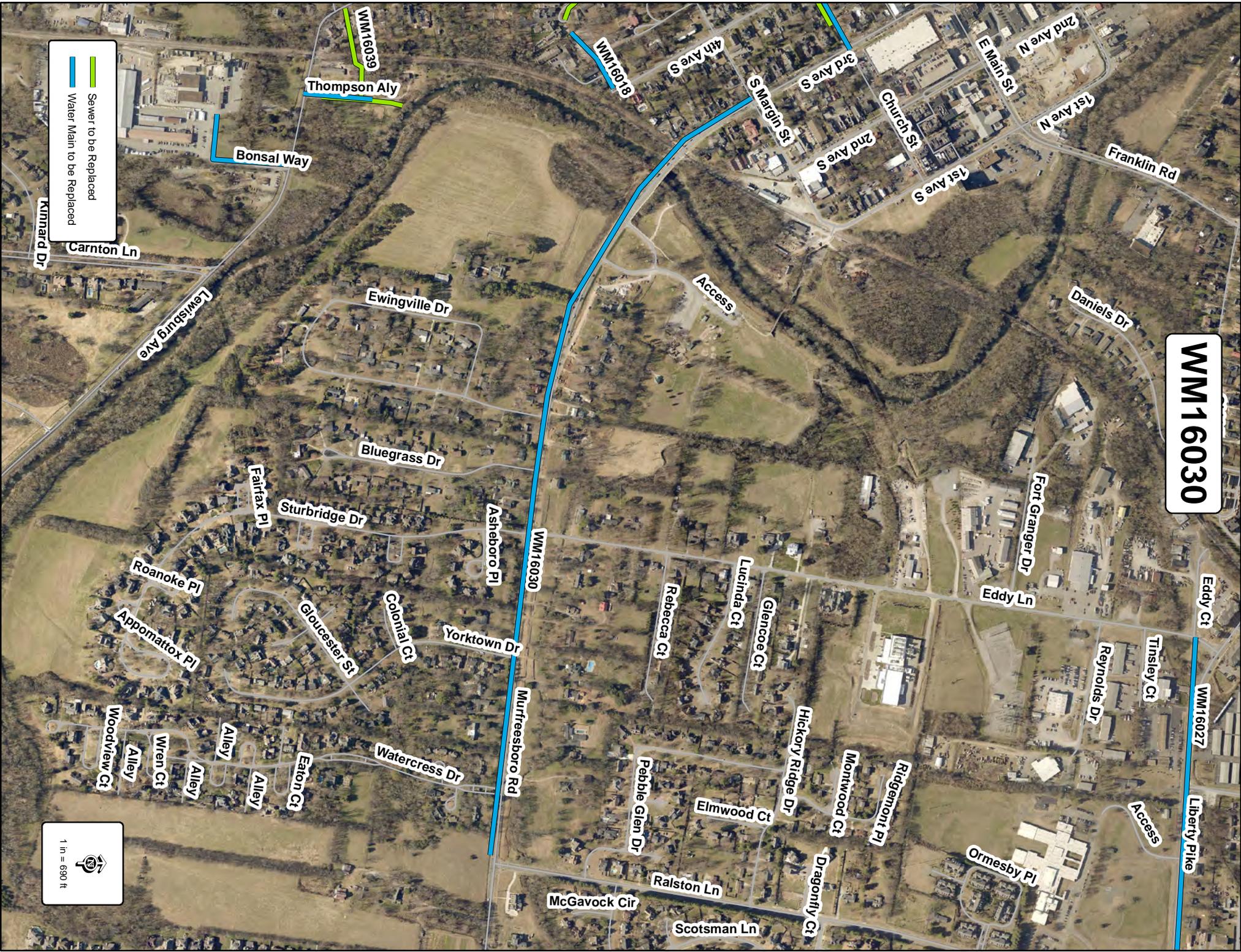
Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal						110,000					110,000
Total						110,000					110,000

WMM16030

Legend:

-  Sewer to be Replaced
-  Water Main to be Replaced

Scale: 1 in = 690 ft



Project # WM16030 Project Name Murfreesboro Road Water line Replacement
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Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 3 Star Project
Status Pending

Total Cost \$990,000

Description Replace approximately 5,000 LF of 8-inch CIP with 12-inch DIP from South Margin Street to Ralston Lane. Water line in this area is located in the street, on the southern side.

Justification Existing line is subject to frequent line breaks and older infrastructure that needs replacement.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)				90,000							90,000
Construction					900,000						900,000
Total				90,000	900,000						990,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Capacity				22,500	225,000						247,500
Water Renewal				67,500	675,000						742,500
Total				90,000	900,000						990,000

Project #	WM16032
Project Name	Old Hillsboro Road Water Line

Department Water Management
Contact Water Management Director
Type New
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Description	Total Cost \$375,000
New installation of 1,180 LF of 8-inch water main from Hillsboro Road to the 8-inch line on Old Hillsboro Road and Bethlem Loop .	

Justification
To improve flow to the area and create a second, redundant feed. Eliminate the need of existing Booster Station

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)								30,000			30,000
ROW and Easements								50,000			50,000
Construction									295,000		295,000
Total								80,000	295,000		375,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal								80,000	295,000		375,000
Total								80,000	295,000		375,000

Downs Blvd

WM16033

WM16033

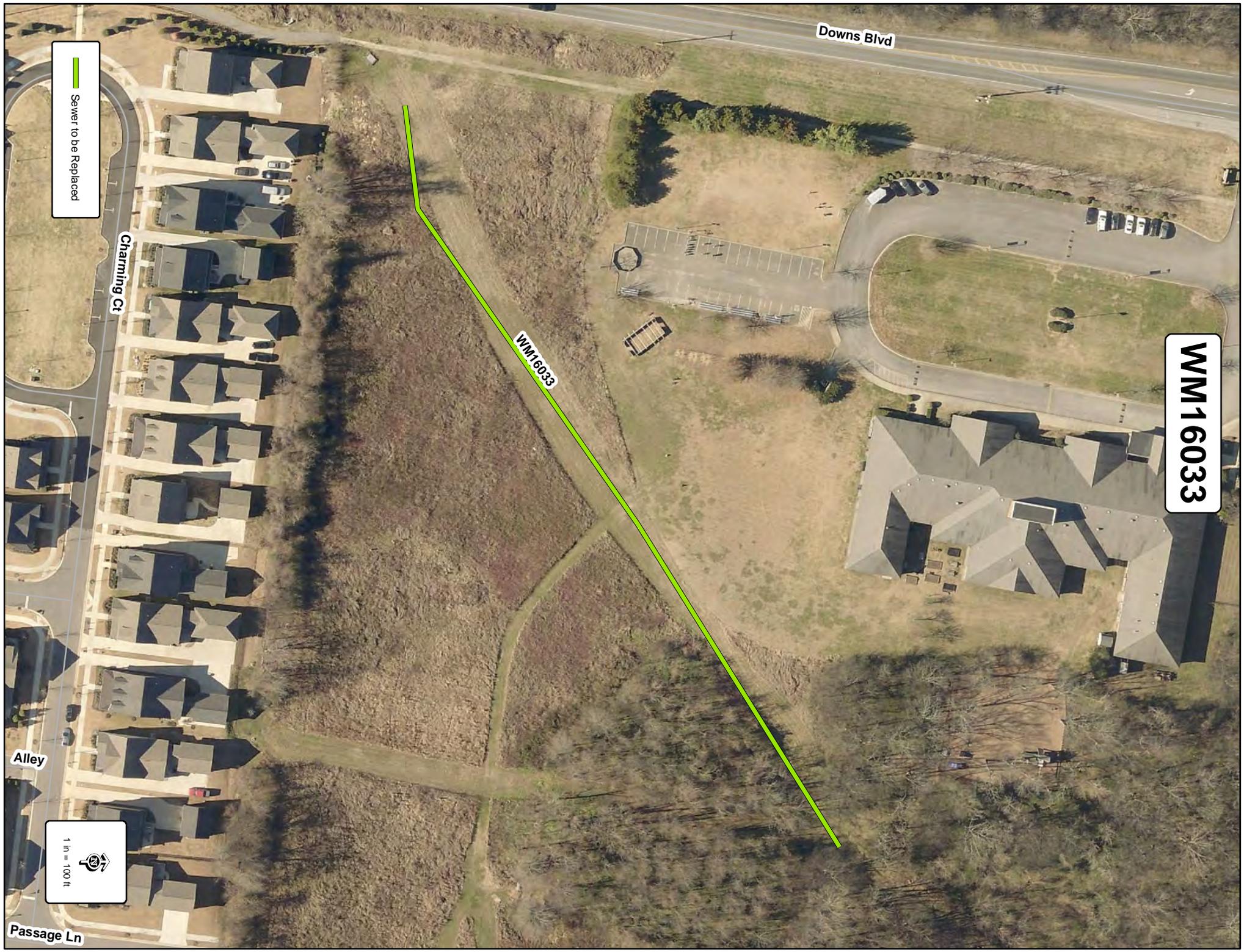
Charming Ct

Alley

Passage Ln

Sewer to be Replaced

1 in = 100 ft



Project # WM16033 Project Name New Hope Academy Sewer Line Replacement

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Pending

Description	Total Cost \$50,000
Replace 950 feet of 10-inch clay with 10-inch PVC	

Justification
Sewer line has a lot of I/I and maintenance issues.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction		50,000									50,000
Total		50,000									50,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Wastewater Renewal		50,000									50,000
Total		50,000									50,000

Project # WM16036 Project Name Scruggs Avenue Water Line Replacement

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Description	Total Cost \$195,000
Replace approximately 1,075 LF of 4-inch and 6-inch CIP along the length of Scruggs Avenue.	

Justification
Line is over 50 years old. The 4-inch line needs to be upsized to improve fire protection.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)							20,000				20,000
Construction								175,000			175,000
Total							20,000	175,000			195,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal							20,000	175,000			195,000
Total							20,000	175,000			195,000

Project #	WM16037
Project Name	South Prong Sanitary Sewer Upgrade

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 1 Star Project
Status Pending

Description	Total Cost \$2,710,000
Upsizing of the existing South Prong interceptor to accommodate aging infrastructure and increased future flows.	

Justification
Additional capacity is needed in this interceptor due to future projected flows, however the line is undersized at the moment to handle the current flows.

Prior	Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
260,000	Construction Engineering / Inspection								250,000			250,000
Total	Construction								2,200,000			2,200,000
	Total								2,450,000			2,450,000

Prior	Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
260,000	Wastewater Capacity								1,225,000			1,225,000
Total	Wastewater Renewal								1,225,000			1,225,000
	Total								2,450,000			2,450,000



Sewer to be Replaced

WMM16038

Daniel McMahon Ln

Franklin Rd

WMM16038

1 in = 100 ft

Project #	WM16038
Project Name	Spencer Creek Sanitary Sewer Replacement

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Active

Description	Total Cost \$1,810,000
Replace approximately 1,200 LF of 36-inch sanitary sewer line under the CSX railroad and Franklin Road along Spencer Creek.	

Justification
Pipe segments upstream and downstream of this location have already been replaced. Remaining segments are subject to I/I and show signs of structural problems.

Prior	Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
290,000	Construction Engineering / Inspection	140,000										140,000
Total	Construction	1,380,000										1,380,000
	Total	1,520,000										1,520,000

Prior	Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
520,000	Wastewater Renewal	1,290,000										1,290,000
Total	Total	1,290,000										1,290,000

WM16040

Glass St

WM16040

11th Ave N

New Hwy 96 W

Green St

Water Main to be Replaced

1 in = 70 ft



Project # WM16040
Project Name Highway 96W Water Line Replacement

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Pending

Description **Total Cost** \$240,000
Water main replacement from intersection of 96W & 11th Avenue, north on 11th Avenue to Glass Street.

Justification
1,600 LF of 8-inch water main & several main breaks have occurred in this area. Adjacent construction project will occur along 96W.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction	240,000										240,000
Total	240,000										240,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal	258,000										258,000
Total	258,000										258,000

Culberson Blvd

WM16041

WM16041

WM16041

WM16041

West End Cir

WM16041

N Petway St

Access

 Sewer to be Replaced
 Water Main to be Replaced


 1 in = 90 ft



Project #	WM16041
Project Name	West End Circle Infrastructure Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 3 Star Project
Status Pending

Total Cost \$127,000

Description
Existing 2-inch water main on the eastern side of the loop will be replaced with a consistent 6-inch main around the entire circle. The existing 2-inch line from West End Circle to Brookwood Avenue will be replaced with a 6-inch main.
Existing 8-inch sewer will be lined under the separate CIPP on-call lining contract.

Justification
Existing 2-inch galvanized line feeding 20 homes will will be increased to a 6-inch line, improving water quality and fire protection.
Sewer main experiences significant root intrusion and infiltration and inflow from wet weather events.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)		10,000									10,000
Construction			117,000								117,000
Total		10,000	117,000								127,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal			117,000								117,000
Wastewater Renewal		10,000									10,000
Total		10,000	117,000								127,000

Project #	WM16042
Project Name	West Main Infrastructure Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Description	Total Cost \$6,200,000
Replace approximately 12,000 LF of 6-inch sewer and 8-inch clay sewer pipe with 12,000 LF of PVC.	
Replace approximately 12,000 LF of CIP (various sizes) water main with 12,000 LF of DIP.	

Justification
Water pipe has been in service for 50+ years, various sizes that will be upsized with consistent sizing. Sewer main has been in service 50+ years, various sizes that will be upsized with consistent sizing, significant source of I/I and multiple blockages have occurred, requiring significant amounts of maintenance.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)						400,000					400,000
Construction Engineering / Inspection							200,000	200,000			400,000
Construction							2,700,000	2,700,000			5,400,000
Total						400,000	2,900,000	2,900,000			6,200,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal						150,000	700,000	700,000			1,550,000
Wastewater Renewal						250,000	2,200,000	2,200,000			4,650,000
Total						400,000	2,900,000	2,900,000			6,200,000

Project # WM19001
Project Name Sewer Interceptor Point Repair Projects

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Pending

Description

Total Cost \$1,000,000

As a result of the Harpeth River 54-inch interceptor failure, the City performed inspections on interceptors 24-inch diameter to 54-inch diameter. The result of those inspections identified numerous point repairs that are necessary to maintain the system.

Justification

The result of the inspections identified numerous point repairs that are necessary improvements for proper operation of the collection system. The Department is still investigating the means to repair the individual locations and will prioritize based upon needs of the system.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction	500,000	500,000									1,000,000
Total	500,000	500,000									1,000,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Wastewater Renewal	500,000	500,000									1,000,000
Total	500,000	500,000									1,000,000

Project #	WM19002
Project Name	Sewer Lateral CIPP Lining

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Pending

Description	Total Cost \$200,000
Laterals to customers that need to be lined with cured-in-placing lining.	

Justification
Laterals with immediate needs of repairs to prevent failure and/or reduce infiltration and inflow.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction	100,000	100,000									200,000
Total	100,000	100,000									200,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Wastewater Renewal	100,000	100,000									200,000
Total	100,000	100,000									200,000

Project #	WM19003
Project Name	Sewer Rehabilitation On-Call Services (mains)

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Pending

Total Cost \$850,000

Description

Projects identified through evaluation of flow monitoring in which excessive infiltration and inflow are noticed to be affecting flow. Areas can also have significant amount of root intrusion that requires significant maintenance issues.

Justification

Projects identified through evaluation of flow monitoring in which excessive infiltration and inflow are noticed to be affecting flow. Areas can also have significant amount of root intrusion that requires significant maintenance issues.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction	400,000	450,000									850,000
Total	400,000	450,000									850,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Wastewater Renewal	400,000	450,000									850,000
Total	400,000	450,000									850,000

Project # WM19004
Project Name Rehabilitation of Moore's Lane & Hillsboro Rd PS

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Pending

Total Cost \$102,730

Description

Rehabilitation of these two stations to include new pump bases and other appurtenances to reduce vibration and maintain efficiency. Bypass pumping will be required during maintenance and is included in this cost.

Justification

These two stations have structural/maintenance issues that are hindering the ability of the station to perform effectively. Bypass pumping will be required during maintenance and is included in this cost.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction	102,730										102,730
Total	102,730										102,730

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Wastewater Renewal	102,730										102,730
Total	102,730										102,730

Project #	WM19005
Project Name	Sewer Rehabilitation On-Call Services (manholes)

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Active

Description	Total Cost \$200,000
Manholes that are indetified to be contributors of excessive amounts of inflow & infiltration, or corrosion from hydrogen sulfide gases due to due to turbulent conditions. Exact locations of manholes will be determined based upon identified need and in adjacent project status.	
Justification	
Lining of manholes will reduce excessive infiltration and inflow and reduce the amount of excessive flow on downstream structures.	

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction	100,000	100,000									200,000
Total	100,000	100,000									200,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Wastewater Renewal	100,000										100,000
Total	100,000										100,000

Project #	WM19006
Project Name	Oakwood Transmission Main Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 3 Star Project
Status Pending

Description	Total Cost \$1,895,000
Install/replace a total of 11,300 LF of 16-inch DIP water main to supply the pumps at Goose Creek booster station. New line will improve water quality and pressures and replacement of the line will improve water quality and maintenance issues.	
Phase 1 consists of 1,900 LF of 16-inch DIP, south from Mack Hatcher on the west side of Sullivan Farms (adjacent to Wisteria Drive).	
Phase 2 consists of 6,400 LF of 16-inch DIP in Sullivan Farms along Morriswood Drive and Bownman Road to Lewisburg Pike.	
Phase 3 consists of replacement of 3,000 LF of 16-inch DIP along Lewisburg Pike from Bowman Road to Ellington Drive.	

Justification
New line will improve water quality and pressures and replacement of the line will improve water quality and maintenance issues.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)			150,000								150,000
ROW and Easements			50,000								50,000
Construction				960,000	285,000	450,000					1,695,000
Total			200,000	960,000	285,000	450,000					1,895,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal			200,000	960,000	285,000	450,000					1,895,000
Total			200,000	960,000	285,000	450,000					1,895,000

WM19007

Sycamore Dr

WM18007

Walnut Dr

Oak Dr

Cedar Dr

Chestnut Ln

Maple Dr

WM18014

Hickory Dr

Access

Legend:

- Green line: Sewer to be Replaced
- Blue line: Water Main to be Replaced

Scale: 1 in = 170 ft



Project #	WM19007
Project Name	Walnut Drive Water Improvements

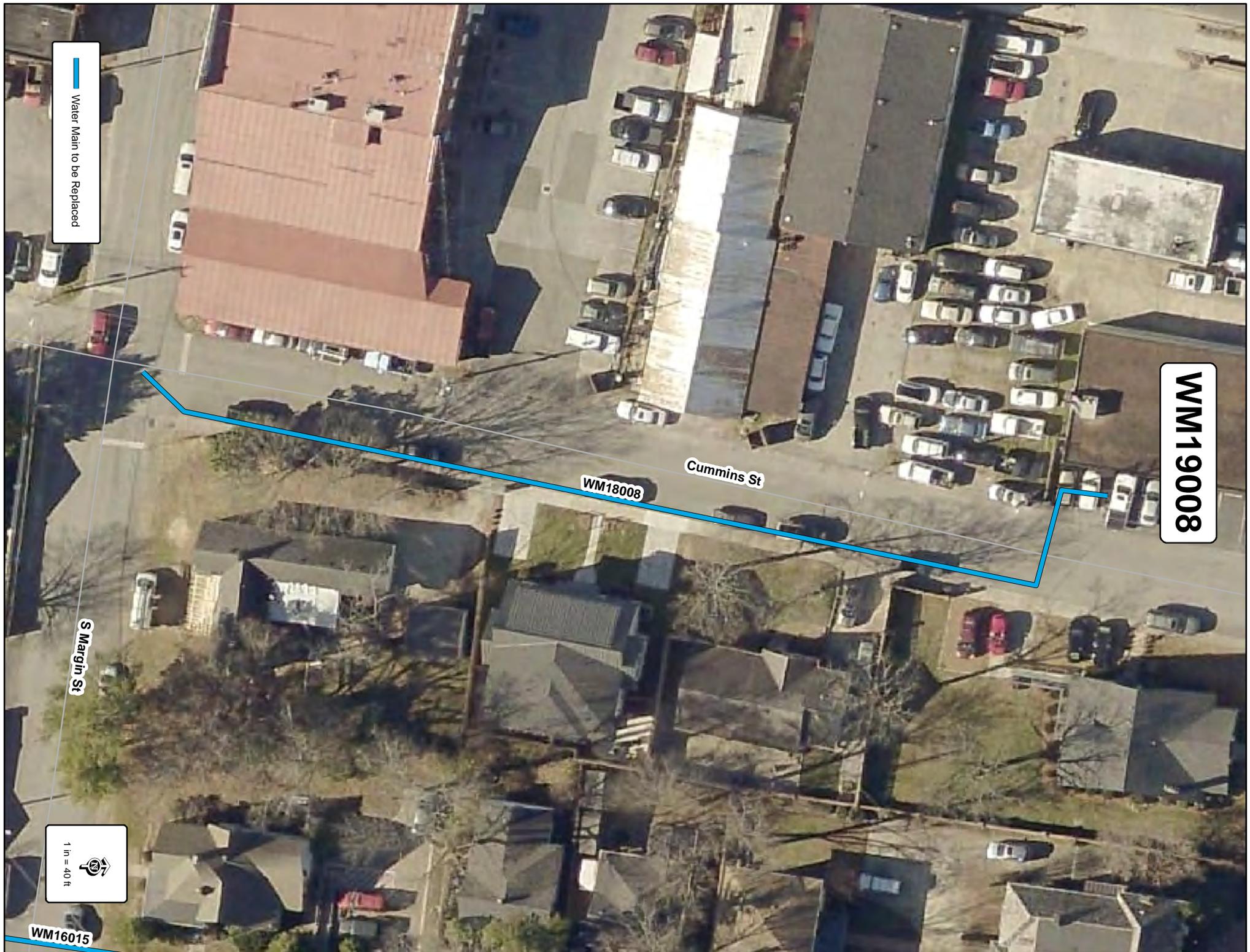
Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 3 Star Project
Status Pending

Description	Total Cost \$180,000
Replacement of 1,200 LF of 6" DIP.	

Justification
Aging infrastructure that requires significant maintenance.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction			180,000								180,000
Total			180,000								180,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal			180,000								180,000
Total			180,000								180,000



Water Main to be Replaced

WM19008

Cummins St

WM18008

S Margin St

1 in = 40 ft

WM16015

Project # WM19008
Project Name Cummins Street Water Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 3 Star Project
Status Pending

Description	Total Cost \$75,000
Replacement of 2-inch galvanized water main with 6-inch DIP from South Margin Street to Church Street.	

Justification
Existing line is aging infrastructure and the replacement will remove the dead-end line by making a loop connection, improving water quality.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction			75,000								75,000
Total			75,000								75,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal			75,000								75,000
Total			75,000								75,000

Project #	WM19009
Project Name	Carolyn Avenue Infrastructure Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 1 Star Project
Status Pending

Description	Total Cost \$410,000
Replacement of 960 LF of 6-inch DIP water main.	
Replacement of 880 LF of 8-inch PVC sewer main and replacement of 3 manholes.	
Justification	
Aging infrastructure that requires significant amounts of maintenance.	

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction									410,000		410,000
Total									410,000		410,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal									140,000		140,000
Wastewater Renewal									270,000		270,000
Total									410,000		410,000

Project #	WM19010
Project Name	Confederate Drive Sewer Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Description	Total Cost \$340,000
Replacement of 1,125 LF of 8-inch clay sewer pipe to 8-inch PVC.	

Justification
Line has numerous offset joints, broken joints, and significant amounts of infiltration and inflow that contribute to downstream flows.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction						340,000					340,000
Total						340,000					340,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Wastewater Renewal						340,000					340,000
Total						340,000					340,000

Project #	WM19011
Project Name	Cothran Drive Water Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 1 Star Project
Status Pending

Description	Total Cost \$120,000
Replace approximately 800 LF of 4-inch CIP with a 6-inch DIP.	

Justification
Replacement will update aging infrastructure and improve fire flow protection in this area.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction									120,000		120,000
Total									120,000		120,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal									120,000		120,000
Total									120,000		120,000

Project # WM19012
Project Name Green Acres Drive Water Line Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 1 Star Project
Status Pending

Description	Total Cost \$120,000
Replacement of transite pipe with approximately 800 LF of 6-inch DIP.	

Justification
Replacement of aging infrastructure.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction									120,000		120,000
Total									120,000		120,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal									120,000		120,000
Total									120,000		120,000

Project # WM19013
Project Name Perkins Drive Water Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Description **Total Cost** \$240,000
Replace aging infrastructure with approximately 1,600 LF of 6-inch DIP.

Justification
Aging infrastructure of this line requires significant operational and maintenance issues.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction								240,000			240,000
Total								240,000			240,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal								240,000			240,000
Total								240,000			240,000

WM19014

Oak Dr

Walnut Dr

WM18007

Sycamore Dr

Maple Dr
WM18014

Hickory Dr

Access

Chestnut Ln

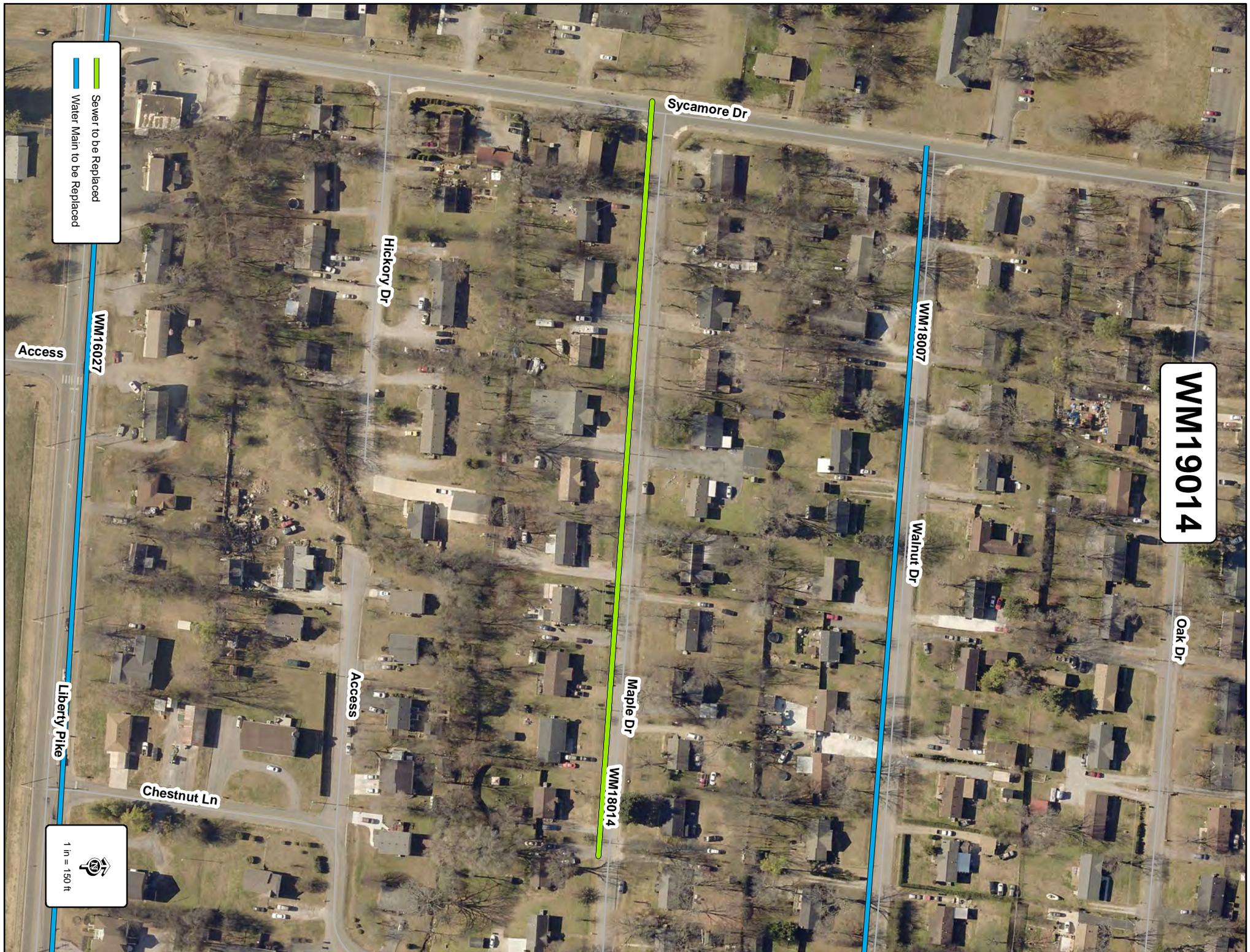
Liberty Pike

WM16027

Access

Sewer to be Replaced
Water Main to be Replaced

1 in = 150 ft



Project #	WM19014
Project Name	Maple Street Sewer Improvements

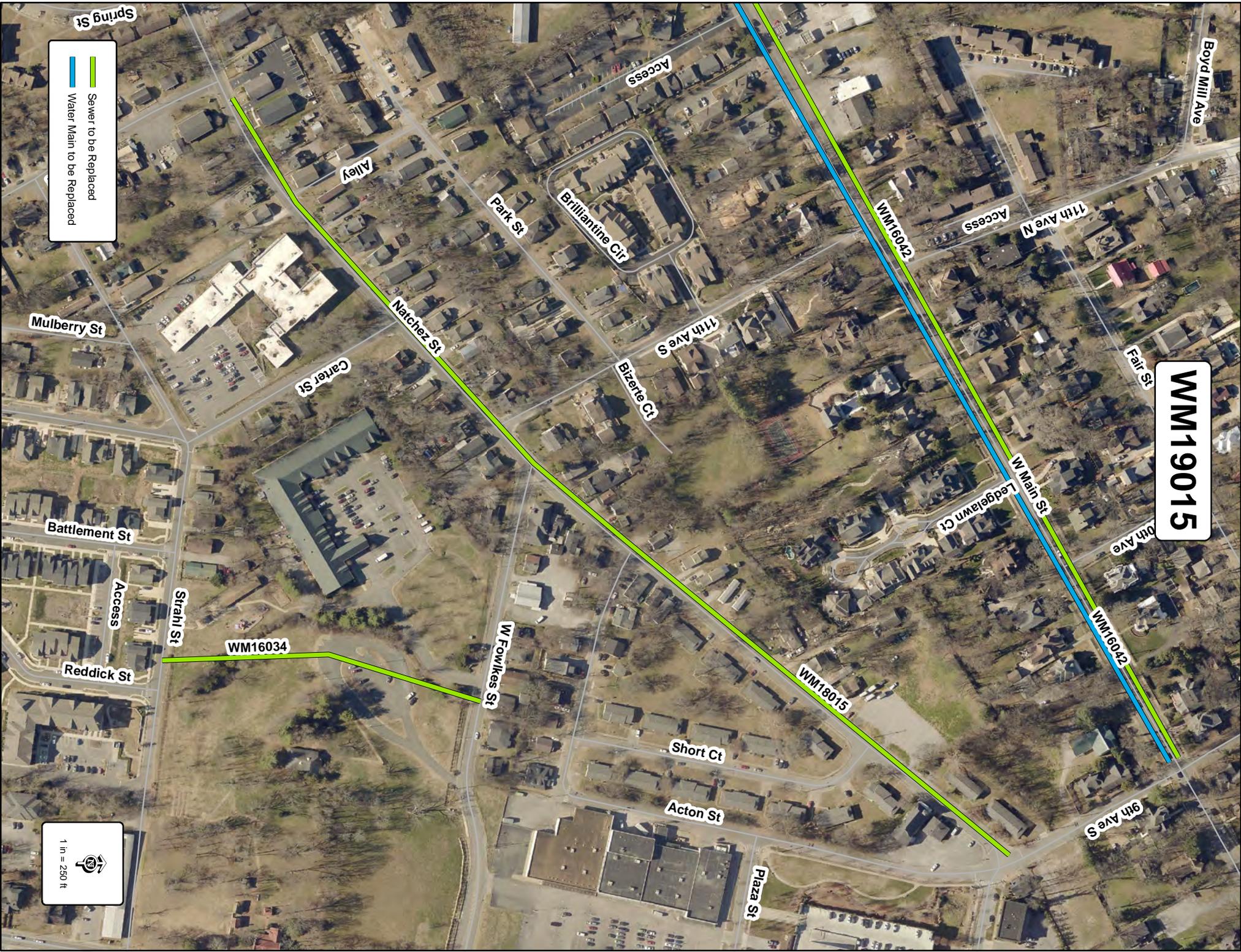
Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 3 Star Project
Status Pending

Description	Total Cost \$306,000
Replacement of approximatley 1,000 LF of 8-inch clay pipe with 8-inch DIP.	

Justification
Replacement of aging infrastructure.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction				306,000							306,000
Total				306,000							306,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Wastewater Renewal				306,000							306,000
Total				306,000							306,000



Legend:

- Green line: Sewer to be Replaced
- Blue line: Water Main to be Replaced

WM19015

Scale: 1 in = 250 ft

Project #	WM19015
Project Name	Natchez Street Sewer Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 3 Star Project
Status Pending

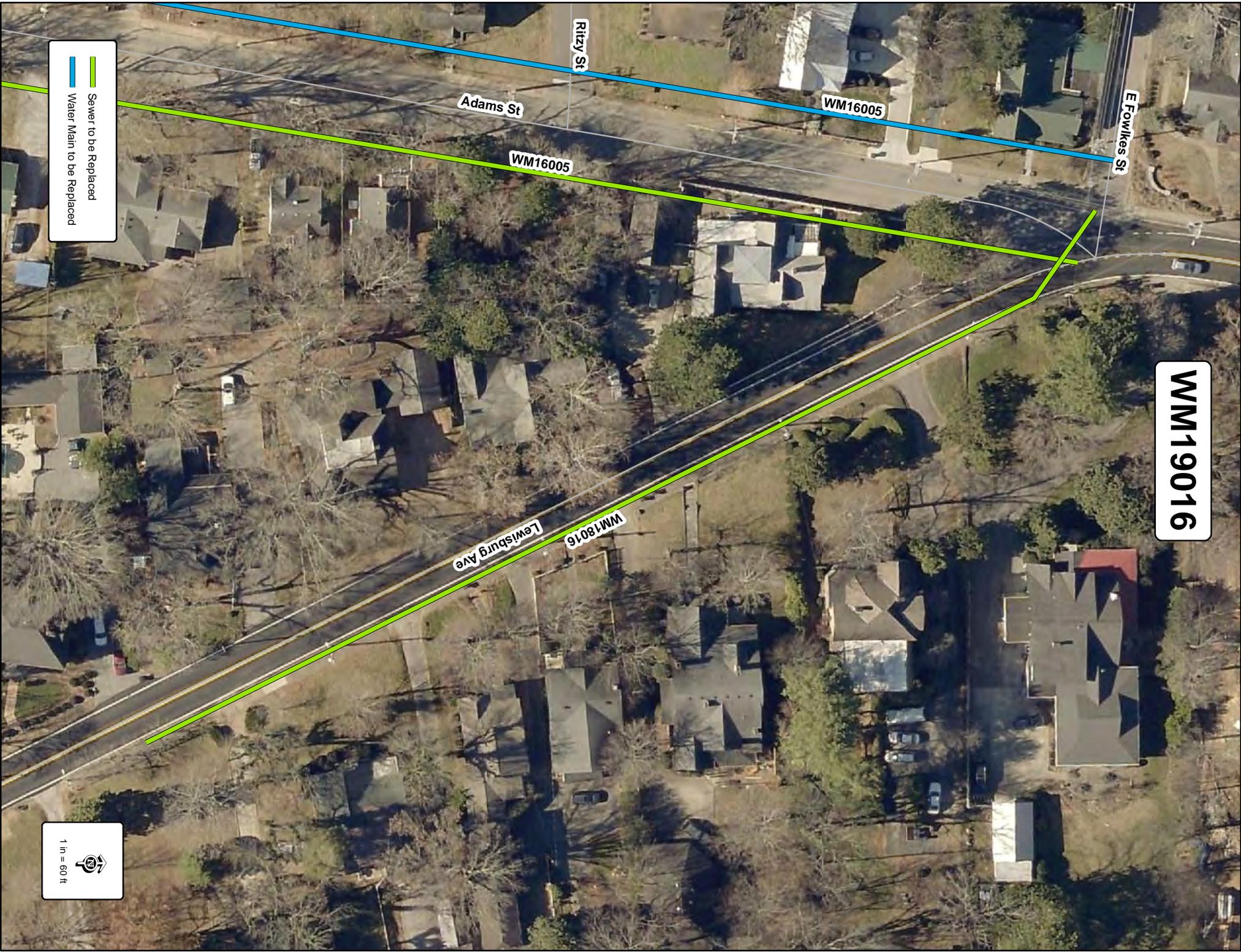
Total Cost \$720,000

Description
Replacement of approximately 2,360 LF of 6- and 8-inch clay mains to replace with a 8-inch PVC main. Project extends from 9th Avenue South to 382 Natchez Street.

Justification
Aging infrastructure and the line changes diameter multiple times, creating areas for blockages and requiring significant maintenance.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction			720,000								720,000
Total			720,000								720,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Wastewater Renewal			720,000								720,000
Total			720,000								720,000



 Sewer to be Replaced
 Water Main to be Replaced

WM19016

WM16005

Adams St

Ritzy St

WM16005

E Fowlkes St

WM18016

Lewisburg Ave


 1 in = 50 ft

Project # WM19016
Project Name Lewisburg Avenue Sewer Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 2 Star Project
Status Pending

Total Cost \$230,000

Description
Replacement of approximately 600 LF of 8-inch PVC from the intersection of Lewisburg Avenue and Adams Street to 211 Lewisburg Avenue, towards the railroad tracks.

Justification
Aging infrastructure is beyond its effective lifespan and two lines need to be combined and run into one main, running new services.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)					30,000						30,000
Construction						200,000					200,000
Total					30,000	200,000					230,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Wastewater Renewal					30,000	200,000					230,000
Total					30,000	200,000					230,000

Project # WM19017
Project Name Unidentified Wastewater Improvement Projects

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Active

Description

Total Cost \$750,000

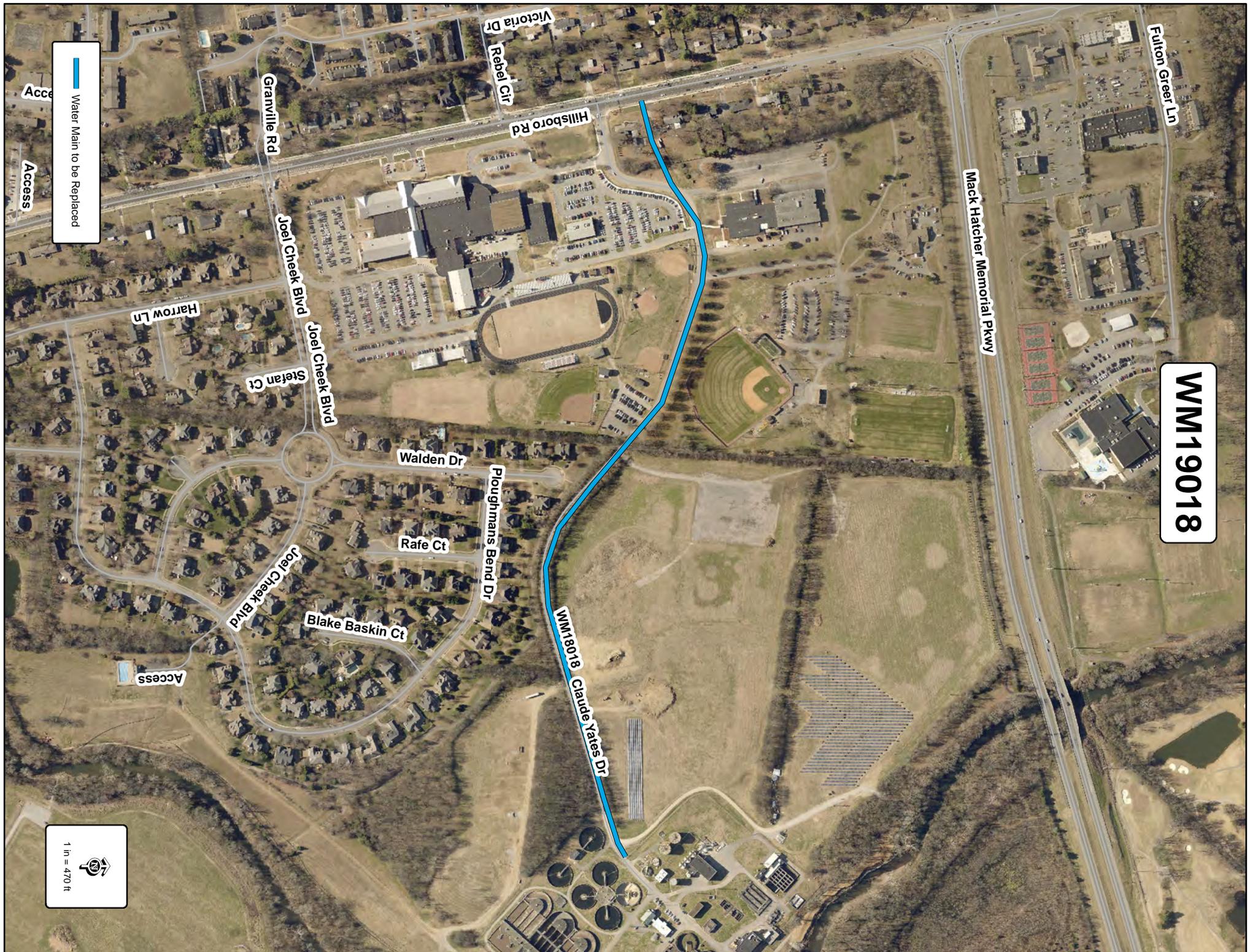
The location of these projects are unidentified and will be determined based upon priority and other factors that are determined by the WMD.

Justification

The location of these projects are unidentified and will be determined based upon priority and other factors that are determined by the WMD.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Construction	200,000	550,000									750,000
Total	200,000	550,000									750,000

WM19018



Water Main to be Replaced

1 in = 470 ft

Victoria Dr
Rebel Cir

Fulton Greer Ln

Mack Hatcher Memorial Pkwy

Hillsboro Rd

Granville Rd

Joel Cheek Blvd

Joel Cheek Blvd

Harrow Ln

Stefan Ct

Walden Dr

Ploughmans Bend Dr

Rafe Ct

Joel Cheek Blvd

Blake Baskin Ct

WM18018
Claude Yates Dr

Access

Access



Project # WM19018
Project Name Claude Yates WRF Water Line Improvements

Department Water Management
Contact Water Management Director
Type Improvement
Useful Life 20+
Category Public Utilities
Priority 4 Star Project
Status Active

Description

Total Cost \$600,000

Replacement and upsizing of the water line from Hillsboro Road, down Claude Yates Drive, to the Water Reclamation Facility. The line will be stubbed out for the WRF contractor to complete remaining improvements.

Justification

The new processes at the WRF require additional water capacity beyond what is available. Upgrade of this line to a 12-inch will provide adequate flows for the future capacity of the plant.

Prior

600,000

Total

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Water Renewal	600,000										600,000
Total	600,000										600,000