

RESOLUTION NO. _____

RESOLUTION ACCEPTING THE PROJECT AS COMPLETE AND AUTHORIZING FINAL PAYMENT TO PM CONSTRUCTION & REHAB, LLC, FOR THE SSA REMEDIATION – CURED IN PLACE PIPE PHASE 1 – SUB-BASINS M002, P005, P006

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE CITY OF FORT SMITH, ARKANSAS, that:

SECTION 1: The construction of SSA Remediation – cured in place pipe (CIPP) Phase 1 – Sub-Basins M002, P005, P006, Project 17-15-C1, is hereby accepted as complete.

SECTION 2: Final payment to PM Construction & Rehab, LLC, in the amount of \$41,142.75, is hereby approved.

This Resolution adopted this _____ day of May, 2019.

APPROVED:

Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:



npr



INTER-OFFICE MEMO

TO: Carl Geffken, City Administrator

DATE: April 25, 2019

FROM: Jerry Walters, Utility Director

SUBJECT: SSA Remediation – CIPP Phase 1 – Sub-Basins M002, P005, P006
Project Number 17-15-C1

On February 20, 2018, the Board of Directors approved the bid of PM Construction & Rehab, LLC, in the amount of \$948,458.53. The scope of this project included remediation of approximately 7,151 linear feet of sanitary sewer lines using the cured in place pipe (CIPP) process, remediation to service lines using a main and lateral cured in place lining (MLCIPL), and point repairs to allow the remediation measures to be made. Final project location maps, a project summary sheet, and a presentation showing construction activities are attached for your review.

This is the first area wide project that has been completed using the CIPP remediation method. Excavation was only needed for point repairs. Installing the CIPP liner in the main pipes, and installing the MLCIPL liners to seal the service connections, were installed through the manholes. This resulted in less disruption to area residents than is caused by other remedial measures methods (i.e. pipe bursting and open cut replacement).

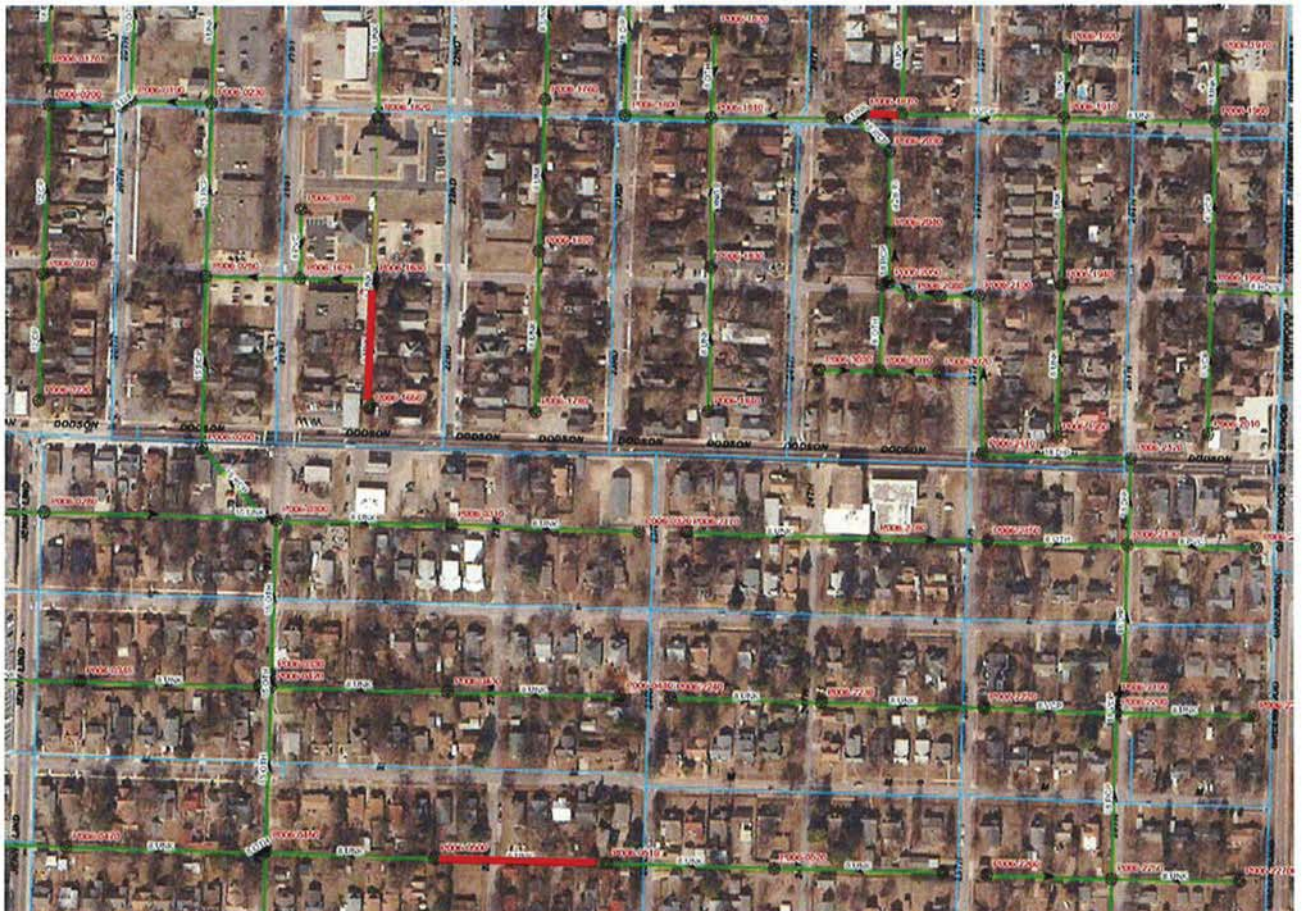
A Resolution authorizing final payment and release of retainage in the amount of \$41,142.75 is attached. The Project has been completed, and is 13.24% below the original contract amount. The funding for this project is available through the 2018 Revenue Bond.

Should you or members of the Board have any questions or desire additional information, please let me know.

attachment

pc: Jeff Dingman


Project Location Maps



Pipes Where CIPP Liner Was Installed Are Indicated By 

Project Location Maps



Pipes Where CIPP Liner Was Installed Are Indicated By 

Project Location Maps



Pipes Where CIPP Liner Was Installed Are Indicated By 

Project Summary

Project Name:
SSA Remediation - CIPP Phase 1 -
Sub-Basins M002, P005, P006

Project Status:
Complete

Project Number:
17-15-C1

Today's Date:
May 7, 2019

Project Engineer:
Richard Hamrick

Staff Contact Name:
Jerry Walters

Project Contractor:
PM Construction & Rehab, LLC

Staff Contact Phone:
479-784-2401

Notice to Proceed Issued:
May 07, 2018

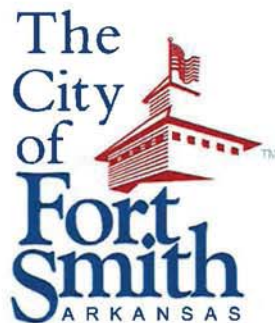
	Dollar Amount	Contract Time (Days)
Original Contract Amount:	\$948,458.53	240
Change Order(s):	\$0.00	0
Total Change Orders:	\$0.00	0
Adjusted Contract:	<u>\$948,458.53</u>	<u>240</u>
Payments to date (as negative):	-\$781,707.42	82.42% of Contract
Amount of this Payment (as negative):	-\$41,142.75	4.34% of Contract
Retainage Held	\$0.00	
Contract Balance Remaining	\$125,608.36	
Amount Under as a Percentage	13.24%	

Final Comments:

This project came in 13.24% under budget. Although the contract construction time of 240 days was exceeded by 34 days, the Contractor performed well, with few customer complaints, and was agreeable in working with the Owner on differing site conditions. Due to the lack of any adverse impact resulting from exceeding the contract time, no liquidated damages are being accessed on this project.

2015 SSA CIPP Remediation Sub-Basins M002, P005, P006 Project No. 17-15-C1

- Consent Decree Sanitary Sewer Remedial Measures Project
 - Contract Amount: \$948,458.53
 - Actual Spend: \$882,850.17
 - Notice To Proceed: May 05, 2018
 - Substantial Completion: February 05, 2019
 - CD Deadline: December 31, 2019



2015 SSA CIPP Remediation Sub-Basins M002, P005, P006 - Project No. 17-15-C1

Point Repairs



Lateral Line Repair



Surface Restoration

2015 SSA CIPP Remediation Sub-Basins M002, P005, P006 - Project No. 17-15-C1

CIPP Prep Work



Felt Liner Tube



Felt Liner Tube Insertion

2015 SSA CIPP Remediation Sub-Basins M002, P005, P006 - Project No. 17-15-C1

Main Line CIPP Liner

Before

After



Spalling Pipe Wall & Hanging Gasket

Smooth, Clear Pipe

2015 SSA CIPP Remediation Sub-Basins M002, P005, P006 - Project No. 17-15-C1

Lateral Liner



Robotic Cutter Reinstating Service Connection



Prep Launcher With MLCIPL

2015 SSA CIPP Remediation Sub-Basins M002, P005, P006 - Project No. 17-15-C1

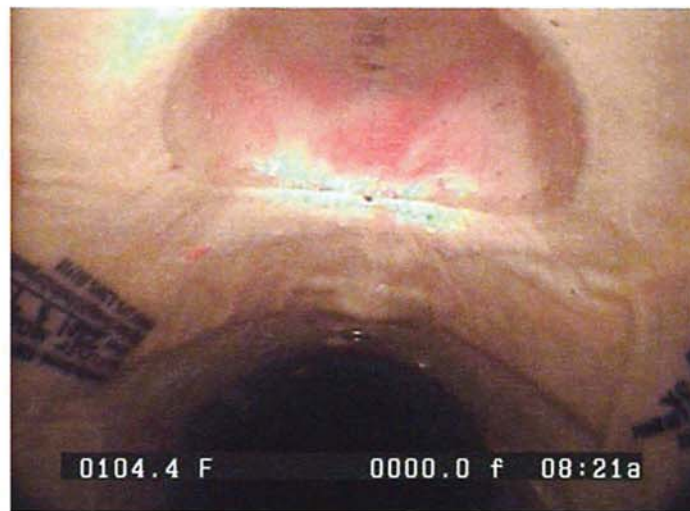
Service Line Connection

Before



I&I At Service Line Connection

After



Sealed Service Connection With MLCIPL

2015 SSA CIPP Remediation Sub-Basins M002, P005, P006 - Project No. 17-15-C1

- Key Project Points
 - First area wide SSA Remedial Measures Project completed using CIPP
 - In-House Design
 - Minimal Excavation Required
 - Limited disruption to area residents
 - Work completed through manhole access
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Comprehensive Plan Goal Supported By Wastewater Projects

- Ensure adequate, well-maintained infrastructure, public safety, and public facilities for all development and prevent development ahead of infrastructure and service provision. (FLU-1.4)
- Continue to ensure that customers within Fort Smith have access to reliable water, sewer, drainage, solid waste services by reducing or eliminating deficiencies and gaps in infrastructure systems (TI-5.1)
- Implement an infrastructure Asset Management Program as a tool for management of the utility department's water and sewer systems and to track, manage, and schedule necessary facility upgrades and improvements. (TI-5.1.1)
- Ensure that utility and infrastructure systems can meet the city's long-term needs. (TI-5.2)
- Coordinate land use planning and capital programming to ensure infrastructure improvements and extensions are phased to support the future land use pattern. (TI-5.2.1)
- Adopt criteria for prioritizing funding to infrastructure-related capital improvement projects. (TI-5.2.4)
- Provide new facilities in a manner that protects investments in existing facilities and promotes orderly growth. (PFS-4.2)