

RESOLUTION NO. _____

RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE RECONCILIATION CHANGE ORDER NUMBER ONE TO HORSESHOE CONSTRUCTION, INC., FOR THE 2015 SANITARY SEWER ASSESSMENT REMEDIAL MEASURES, PHASE B, SUB-BASIN S004

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

SECTION 1: Reconciliation Change Order Number One with Horseshoe Construction, Inc., for the construction of 2015 SSA Remedial Measures, Phase B, Sub-Basin S004, Project 16-11-C2, is hereby approved.

SECTION 2: The Mayor is hereby authorized to execute deductive Reconciliation Change Order Number One with Horseshoe Construction, Inc., in the amount of \$225,823.38, adjusting the total contract amount to \$935,271.62, is hereby approved.

This Resolution adopted this _____ day of August 2021.

APPROVED:

Mayor

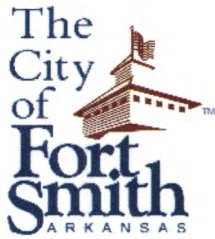
ATTEST:

City Clerk

APPROVED AS TO FORM:



npr



UTILITY DEPARTMENT
INTEROFFICE MEMORANDUM



TO: Carl E. Geffken, City Administrator
FROM: Lance A. McAvoy, Utility Director
SUBJECT: 2015 SSA Remedial Measures, Phase B, Sub-Basin S004
Project Number 16-11-C2
DATE: August 09, 2021
CC: Jeff Dingman, Deputy City Administrator

On March 12, 2019, the Board of Directors approved the bid of Horseshoe Construction, Inc., in the amount of \$1,161,095.00, to provide construction services on the 2015 SSA Remedial Measures, Phase B, Sub-Basin S004 project (R-40-19). This project is the last of the six remedial measures projects to be completed as identified during the first Sanitary Sewer Assessment as required by the Consent Decree. This project consisted of the replacement and rehabilitation of approximately 6,300 linear feet of 8” sanitary sewer main, associated manholes, and other appurtenances. A project summary sheet and presentation are attached for your review.

The original Substantial Completion date was November 12, 2019. Delays encountered to reach the original Substantial Completion date included weather delays and additional work needed that was not shown on the plans. The adjusted Substantial Completion date was December 23, 2019, which was met. Upon review of the CCTV video of the completed construction work, several deficiencies were noted that needed to be addressed. Horseshoe Construction, Inc. made the needed repairs. Included in the repair work was for Horseshoe Construction, Inc. to provide CCTV video of the repair work. However, they failed to provide the video. Also, Horseshoe failed to provide the GIS coordinates of the clean outs installed on this project. Mickle Wagner Coleman, Inc. provided the CCTV video of the repairs and the clean out GIS coordinates under their Professional Services Agreement. The cost for Mickle Wagner Coleman, Inc. to provide the video GIS coordinates was deducted from the construction retainage.

Additional delays to close out the project was due to the Project Engineer assigned to the project was out of the office due to a COVID infection and rehabilitaton.

This Project was completed 19% BELOW the original contract amount, and within the time frame set for Substantial Completion.

A Resolution authorizing the Mayor to execute Reconciliation Change Order Number 1, in the amount of \$225,823.38, is attached. This is the amount that the construction contract came in under the original contract amount. The Change Order Number One is also attached.

A Resolution authorizing Final Payment in the amount of \$25,574.02 is attached. The funding for this project is available from the 2018 Revenue Bonds. Please contact me should you or members of the Board have any questions or desire additional information.

- Attachments:
- ¹ Resolution Authorizing the Mayor to Execute Change Order No. 1 to Horseshoe Construction, Inc., for 2015 SSA Remedial Measures, Phase B, Sub-Basin S004.
 - ² Resolution Accepting the Project as Complete and Authorizing Final Payment to Horseshoe Construction, Inc., for 2015 SSA Remedial Measures, Phase B, Sub-Basin S004.
 - ³ Project Summary Sheet
 - ⁴ Presentation
 - ⁵ Change Order Number One

Project Summary

Project Name: 2015 SSA Remedial Measures, Phase B, Sub-Complete
Basin S004

Project Status:

Project Number:
16-11-C2

Today's Date:
August 9, 2021

Project Engineer:
Richard Hamrick

Staff Contact Name:
Lance McAvoy

Project Contractor:
Horseshoe Construction, Inc.

Staff Contact Phone:
(479) 494-3908

Notice to Proceed Issued:
05/01/2019

Contact Breakdown		
	Dollar Amount	Contract Time (Days)
Original Contract Amount:	\$1,161,095.00	195
Weather & Additional Work Days	\$0.00	41
Change Order 1	-\$225,823.38	0
Total Change Orders:	-\$225,823.38	0
Adjusted Contract:	\$935,271.62	236

Contract Payment Breakdown		
	Dollar Amount	% of Contract Amount
Adjusted Contract Amount	\$935,271.62	-19%
Previous Payments	\$888,508.04	----
Final Payment Amount:	\$0.00	----
Contract Balance Remaining	\$46,763.58	----

Final Payment Breakdown	
Total Work Installed This Payment	
Retainage	\$46,763.58
Liquidated Damages	-\$21,189.56
Final Payment Amount	\$25,574.02

Final Comments:

Additional time has been allocated to this project for weather days and for work required that was not indicated on the plans, resulting in an adjusted Substantial Completion date of 12/23/2019. This project was completed \$225,823.38 below the original contract amount. Liquidated Damages in the amount of \$21,189.56 were accessed due to the Contractor failing to provide the CCTV video of repaired lines and the GIS coordinates of the clean outs installed on this project.

2015 SSA Remedial Measures, Phase B, Sub-Basin S004 Project No. 16-11-C2

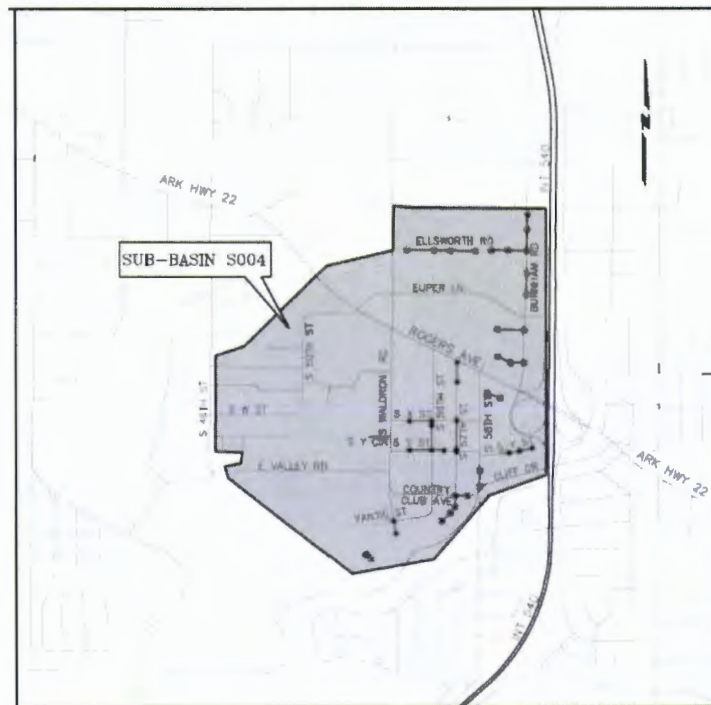
- Project Cost & Schedule:
 - Construction Contract Amount: \$1,161,095.00
 - Actual Construction Spend: \$935,271.62
 - Completed 19% Under Construction Budget
 - Notice To Proceed: May 01, 2019
 - Substantial Completion Date (Adjusted): December 23, 2019
- Scope of Work:
 - Replacement and rehabilitation of approximately 6,300 linear feet of sanitary sewer mains in Sub-Basin S004 and associated manholes.
- Project Information:
 - Design Engineer – Mickle Wagner Coleman, Inc.
 - Construction Contractor – Horseshoe Construction, Inc.
 - Inspection Services – City of Fort Smith, Utility Department, Utility Engineering Inspection group (augmented by Mickle Wagner Coleman, Inc. as needed)

2015 SSA Remedial Measures, Phase C, Sub-Basin S004 Project No. 16-11-C2

- Project Details:
 - This project is one of six projects that were include in the 2015 Sanitary Sewer Assessment work, as identified in the Consent Decree, and was required to be completed by December 31, 2019.
 - This project replaced 5,279 linear feet of sanitary sewer mains by pipe bursting, replaced 2 manholes, repaired 2 manholes, replaced 1,383 linear feet of 4" service lines, and installed 67 clean outs.
 - The delay in reaching substantial completion was due to weather and additional work required on the project that was not indicated on the plans. Additional work included: a point repair that was required to be made to allow for the pipe bursting operation to be successful; a water main/sanitary sewer main crossing that was required to meet Arkansas Department of Health requirements; and the replacement of a 20 foot section of ductile iron pipe instead of using HDPE pipe, to meet Arkansas Department of Health requirements.

2015 SSA Remedial Measures, Phase C, Sub-Basin S004 Project No. 16-11-C2

Project Location Map



2015 SSA Remedial Measures, Phase C, Sub-Basin S004 Project No. 16-11-C2

Service Line Installation



Service Line To Main Wye Connection



Service Line To Main Inserta Tee Connection

2015 SSA Remedial Measures, Phase C, Sub-Basin S004 Project No. 16-11-C2

Service Line Installation



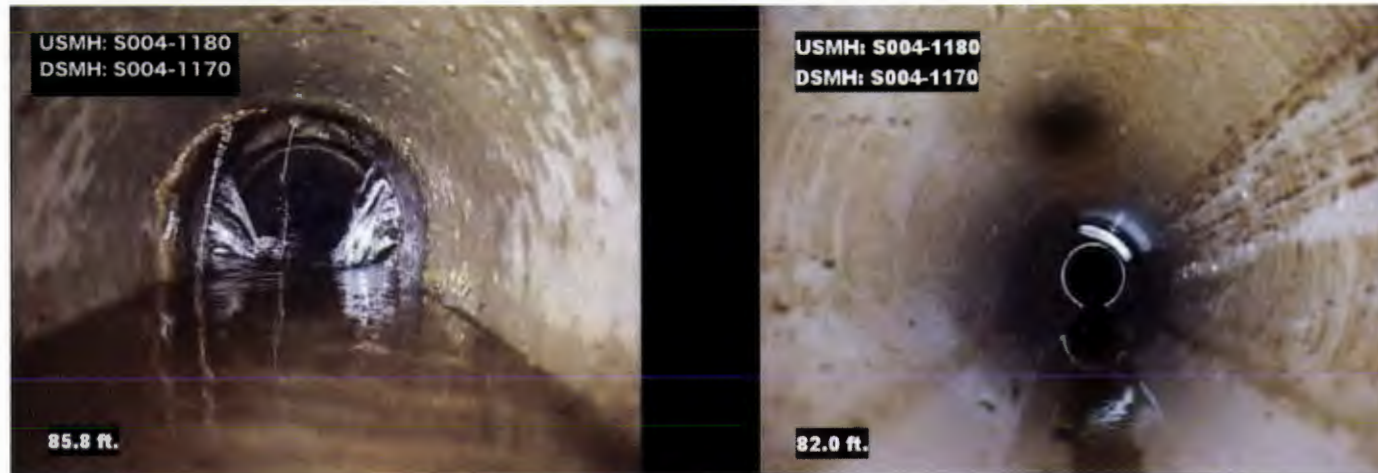
Service Line With Clean Out Connection To Main



Finished Clean Out

2015 SSA Remedial Measures, Phase C, Sub-Basin S004 Project No. 16-11-C2

Infiltration & Inflow (I&I)

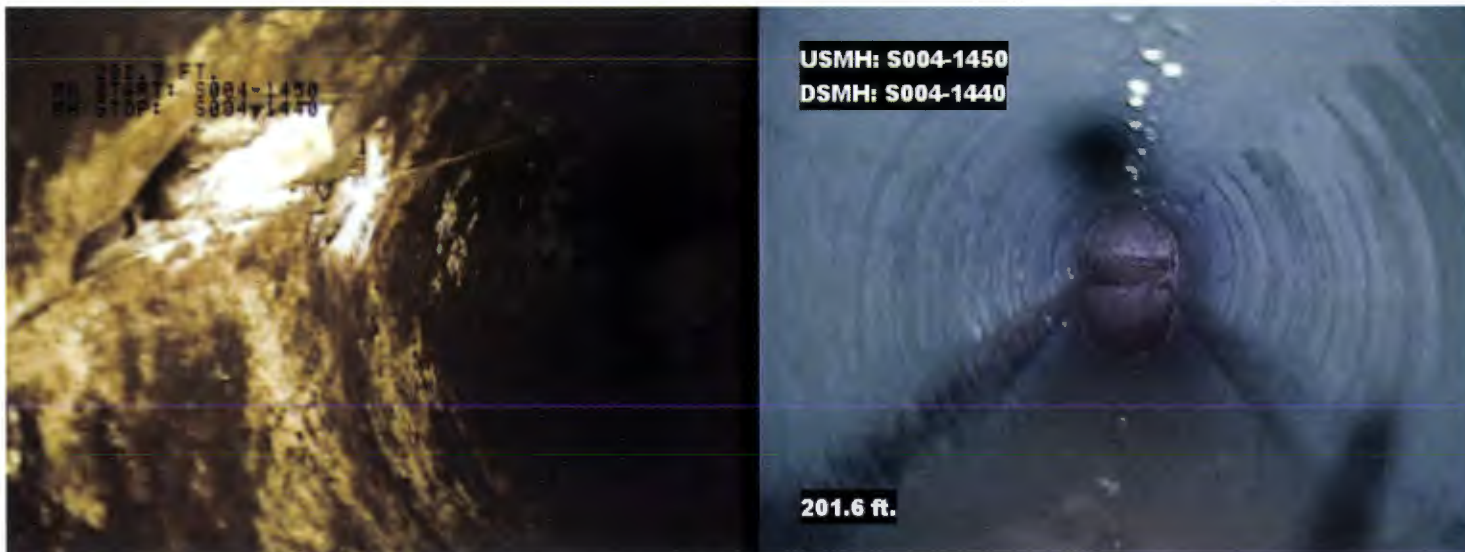


Before
Two Service Connections with I&I

After
Eliminated One Service Connection and I&I

2015 SSA Remedial Measures, Phase C, Sub-Basin S004 Project No. 16-11-C2

Point Repair



Before
Hole In Pipe

After
New Section Of Pipe

CHANGE ORDER

Project: 2015 Sanitary Sewer Assessment Remedial Measures, Phase B, Sub-Basin S004

Change Order No.: 1

Project No.: 16-11-C2

Contractor: Horseshoe Construction, Inc.

Contract Date: 03/12/2019

Justification: This Change Order No. 1 is to reconcile the difference between the original contract amount and actual cost of work provided by the Contractor.

Change To The Project Price:

Original Contract Price	\$1,161,095.00
Cost of Work Completed to Date	\$ 935,271.62
The Contract Price Due to This Change Order No. 1 Will Decress The Contract Amount By	\$ 225,823.38
The Contract Price Following This Change Order No. 1 Will Be	\$ 935,271.62

Approvals:

Engineer, City of Fort Smith Utility Engineering

Date: _____

Horseshoe Construction, Inc.

James R Holt

Date: 7/26/2021

Owner, City of Fort Smith, AR

Date: _____

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)