

The background features the official seal of the City of Cahokia Heights, Illinois. The seal is circular with a dark blue outer ring containing the text "ESTABLISHED 2021" at the top. Inside the ring is a shield with a yellow sun, a red banner, and a white path. The shield is surrounded by yellow stars. Below the shield is a yellow banner with the text "CAHOKIA HEIGHTS" and a red banner with the text "ILLINOIS".

IEPA Grant 21WWCTIRR01
OUTREACH MEETING
The City of Cahokia Heights

CAHOKIA HEIGHTS

ILLINOIS



Outreach Meeting Agenda

- OVERVIEW OF THE MEETING AGENDA AND WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE REHABILITATION AND RESTORATION PROJECT PRESENTED BY **ANTONIO BAXTON**
- INTRODUCTION OF THE PROJECT MANAGER FOR WATER AND SEWER PROJECTS, NEWLY HIRED CITY ENGINEER, AND ADDITIONAL PROJECT ENGINEERS PRESENTED BY **EDWARD HIGHTOWER**
- WATER INFRASTRUCTURE PROJECTS PRESENTED BY **SANDY BERNARD OF LOCHMUELLER GROUP LLC**
- SEWER INFRASTRUCTURE PROJECTS PRESENTED BY **CURTIS ZURLIENE OF TWM INC**
- CAHOKIA HEIGHTS DEPARTMENT STAFF TRAINING AND CERTIFICATIONS UPDATE PRESENTED BY **SHARLIN PFEFFER**
- WATER TOWER AND PUMP STATION PROJECTS PRESENTED BY **JAMES NOLD OF HURST ROSCHE**
- CAHOKIA HEIGHTS MAIN SANITARY SEWER TRUNKLINE SLIP LINING PROJECT PRESENTED BY **JACOB CONWAY OF THE U.S. ARMY CORPS OF ENGINEERS**
- ILLINOIS EPA GRANT CONSTRUCTION ACTIVITIES, ENGINEERING TIMELINE AND BID PROCESSES PRESENTED BY **JAMES NOLD OF HURST ROSCHE**

WEBSITE



Cahokia Heights Sewer Project - Cahokia Heights Sewer Project

Cahokia Heights Sewer Project

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Wastewater Collection & Transport Infrastructure Rehabilitation & Restoration Project.

Improving the life for residents in Cahokia Heights, Illinois

[IEPA Funded Projects](#) [Watch Town Hall Meeting](#)

Cahokia Heights Sewer Project

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News & Events

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SEWER PROJECT OFFICE HOURS MEETING

IT'S ALL YOU WANT TO KNOW ABOUT

Sewer Project Office Hours Meeting

April 13, 2024

We are pleased to share we are having a Cahokia Heights Sewer Project Office Hours Meeting. The Outreach Team, Engineers and City Officials will be.

[Read More](#)

SEWER PROJECT OFFICE HOURS MEETING

IT'S ALL YOU WANT TO KNOW ABOUT

Sewer Project Office Hours Meeting

November 13, 2024

We are pleased to share we are having a Cahokia Heights Sewer Project Office Hours Meeting. The Outreach Team, Engineers and City Officials will be.

[Read More](#)

FLOOD PREPAREDNESS WORKSHOP

ST. LOUIS USACE 2024

Flood Preparedness Workshop

St. Louis USACE 2024

The U.S. Army Corps of Engineers (USACE), St. Louis District will be hosting Flood Preparedness Workshops with managers and levee district and emergency management officials.

[Read More](#)

TOWNHALL MEETING

IT'S ALL YOU WANT TO KNOW ABOUT

TOWNHALL MEETING

April 13, 2024

6PM - 7:30PM

[Read More](#)



WHILE THIS GRANT WILL WORK TO SOLVE SOME OF THE ISSUES WITH FLOODING IN CAHOKIA HEIGHTS, IT WILL NOT SOLVE ALL OF THE PROBLEMS. IT IS A STEP TOWARDS SOLVING A HISTORICAL ISSUE.

Ongoing Drinking Water Projects

For

The City of Cahokia Heights



Falling Springs Road Water Tank Rehab

- Project Goals
 - Rehabilitate the 1.5 Million Gallon Tank
 - Supply Emergency Storage Capacity



Falling Springs Road Water Tank Rehab

- Rehabilitation
 - Remove lead paint
 - Require air monitoring at the fence line during removal
 - Repair Damage
 - Walls
 - Floor



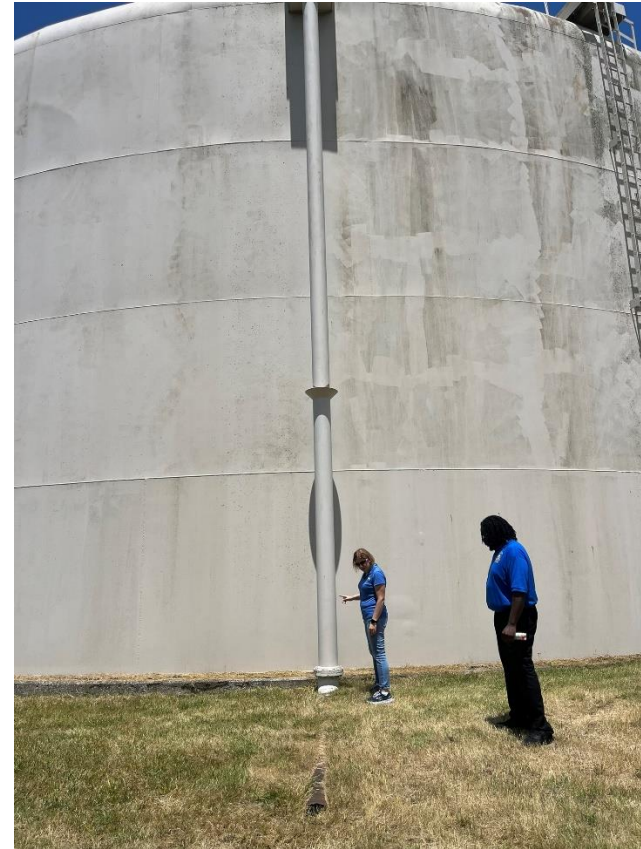
Falling Springs Road Water Tank Rehab

- Rehabilitation
 - Repair Concrete Pad
 - Repair Grouting
 - Ensure Pad Exposure



Falling Springs Road Water Tank Rehab

- Rehabilitation
 - Replace overflow
 - Install Duckbill Valve
 - Install Concrete Splash Pad



Falling Springs Road Water Tank Rehab

- Rehabilitation
 - Replace vent
 - Smaller Screening
 - Add Rain Shield



Falling Springs Road Water Tank Rehab

- Rehabilitation
 - Replace Level Control Valve
 - Install Level Meter



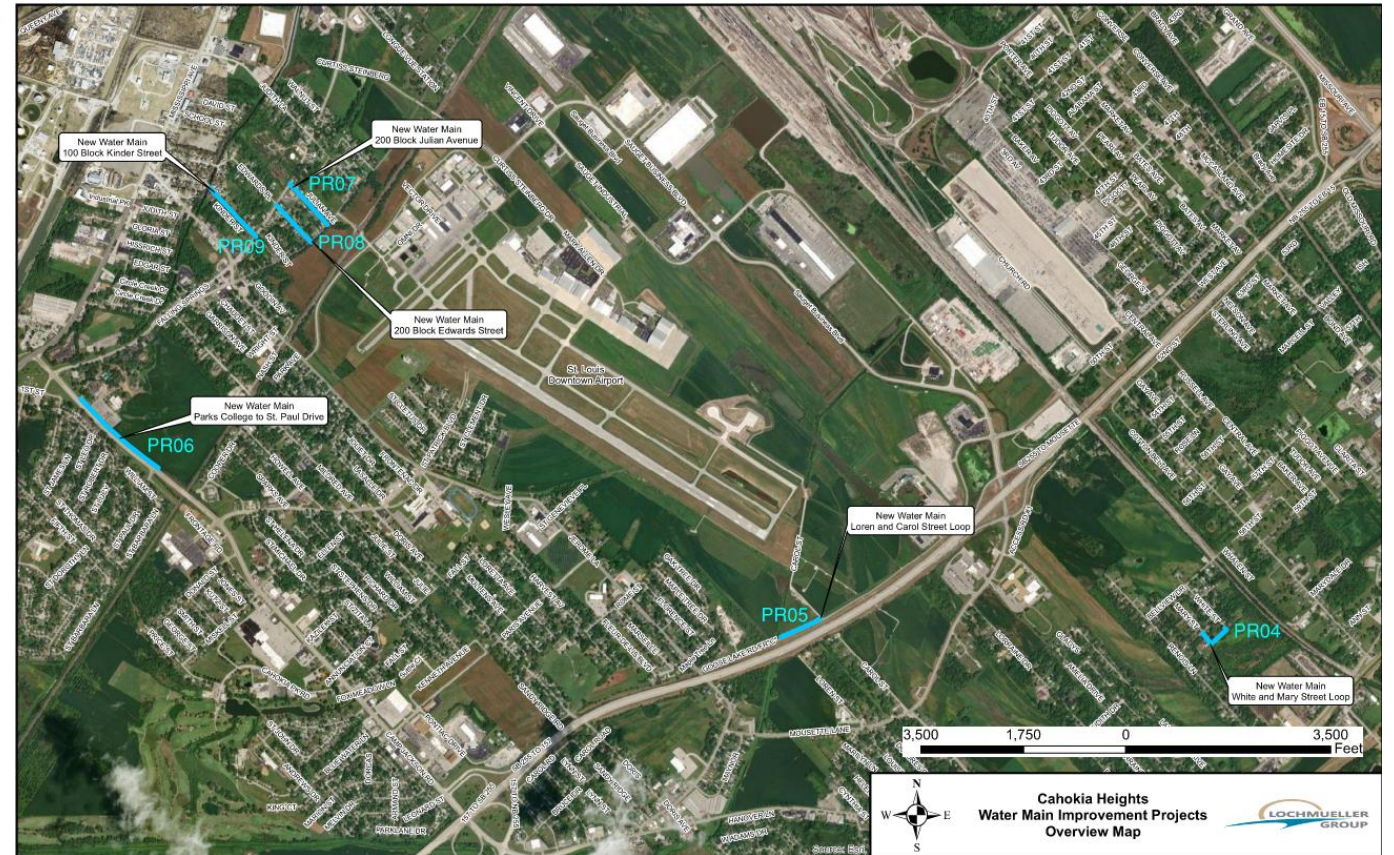
Falling Springs Road Water Tank Rehab

- Rehabilitation
 - Install Mixer
 - Maintain Water Quality



Water Main Replacements/Extension

- 6 Water Main Projects
 - White & Mary Loop
 - Loren & Carol Loop
 - Parks College to St. Paul
 - Julian
 - Edwards
 - Kinder



Water Meter Replacements

- Replace Manual Read Meters
 - Radio Read Meters
 - Make Database on GIS for Easy Tracking
 - Up to 2,500
- Benefits
 - Efficiency

Water Meter Report

Meter ID: 123456789

Location: 123 Water Street

Meter Brand: Brand X

Meter Size: 1/2-inch

Installation Date: 9/26/2024



Fire Hydrant Replacements

- Replace Broken or Outdated Fire Hydrants
 - Field Inspection & Locations
 - Prioritize Replacement Based on Need
 - Develop GIS Database for Monitoring and Tracking Upgrades



THOUVENOT, WADE & MOERCHEN, INC

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Since 1946*

Projects for the City of Cahokia Heights Outside of the IEPA Grant

*Curt Zurliene, PE
9/26/2024*

CIVIL ENGINEERING

GEOSPATIAL SERVICES

LAND SURVEYING

MUNICIPAL PLANNING



About TWM

Engineering

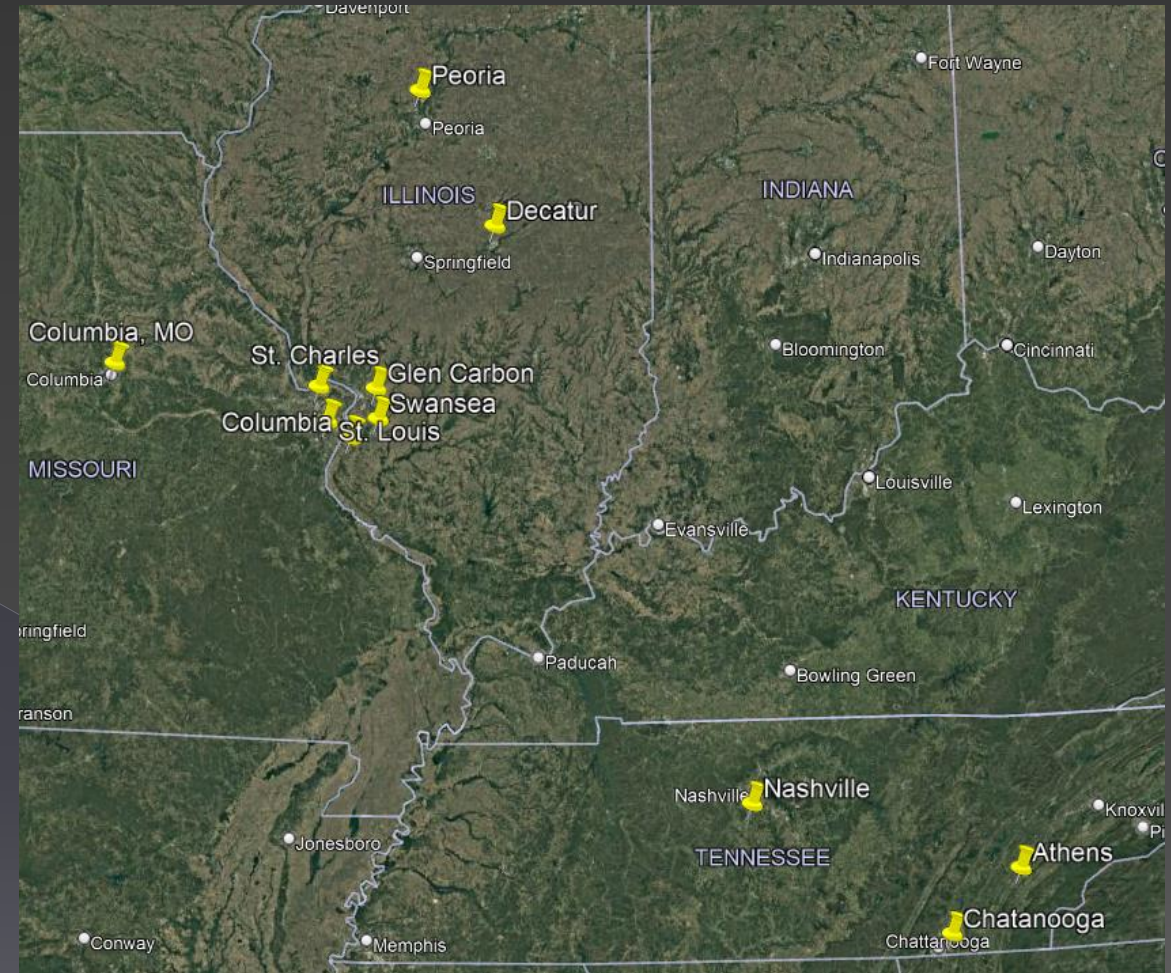
- Structural
- Transportation
- Land Development
- Water Infrastructure

Geospatial

- Traditional surveying
- Mobile & aerial LiDAR
- Geographic Information Systems (GIS)

Current Projects

- Cahokia Heights High School
- 5-lane road
- Sanitary sewer repairs

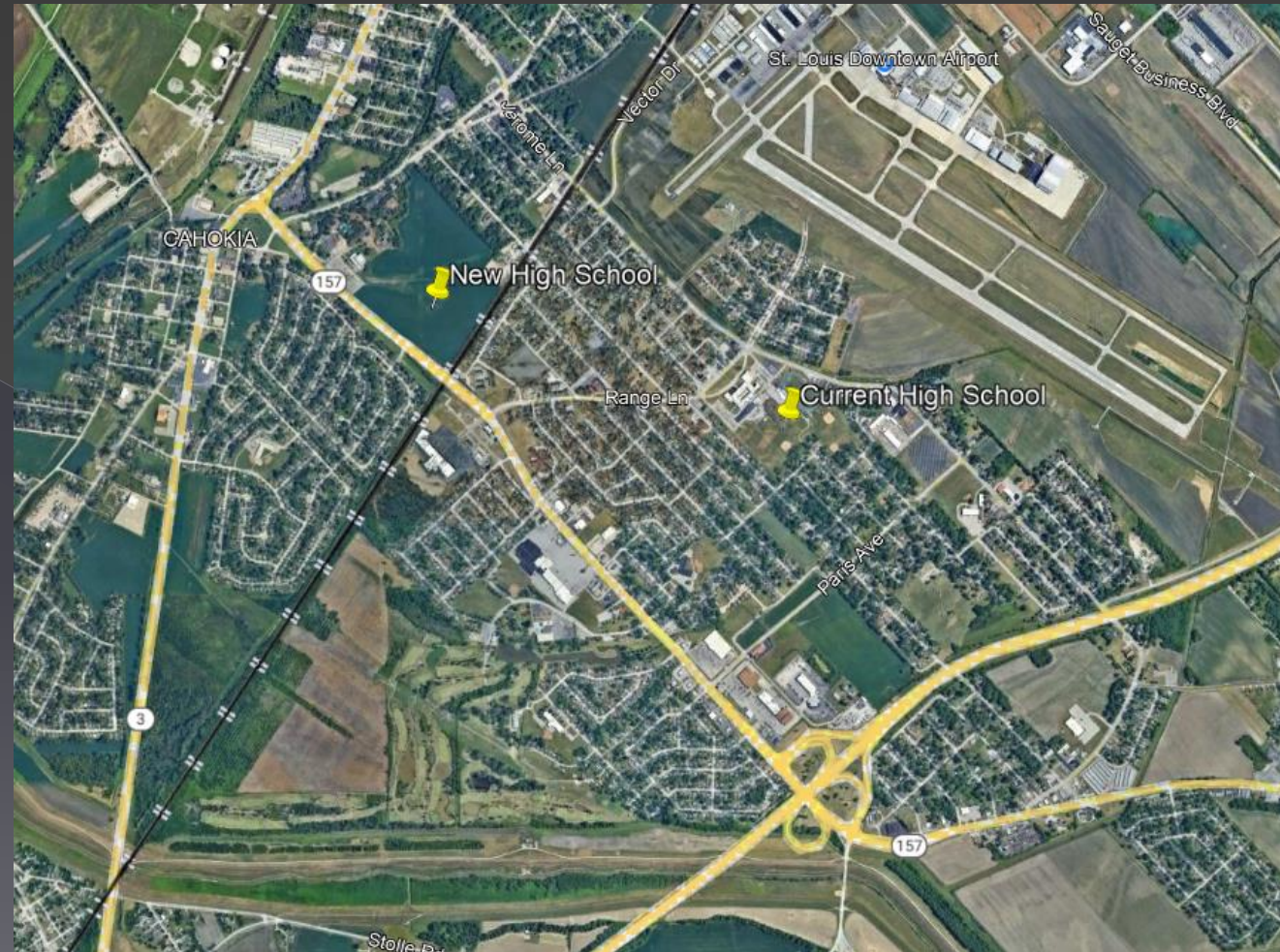


TWM Office Locations

Cahokia Heights High School

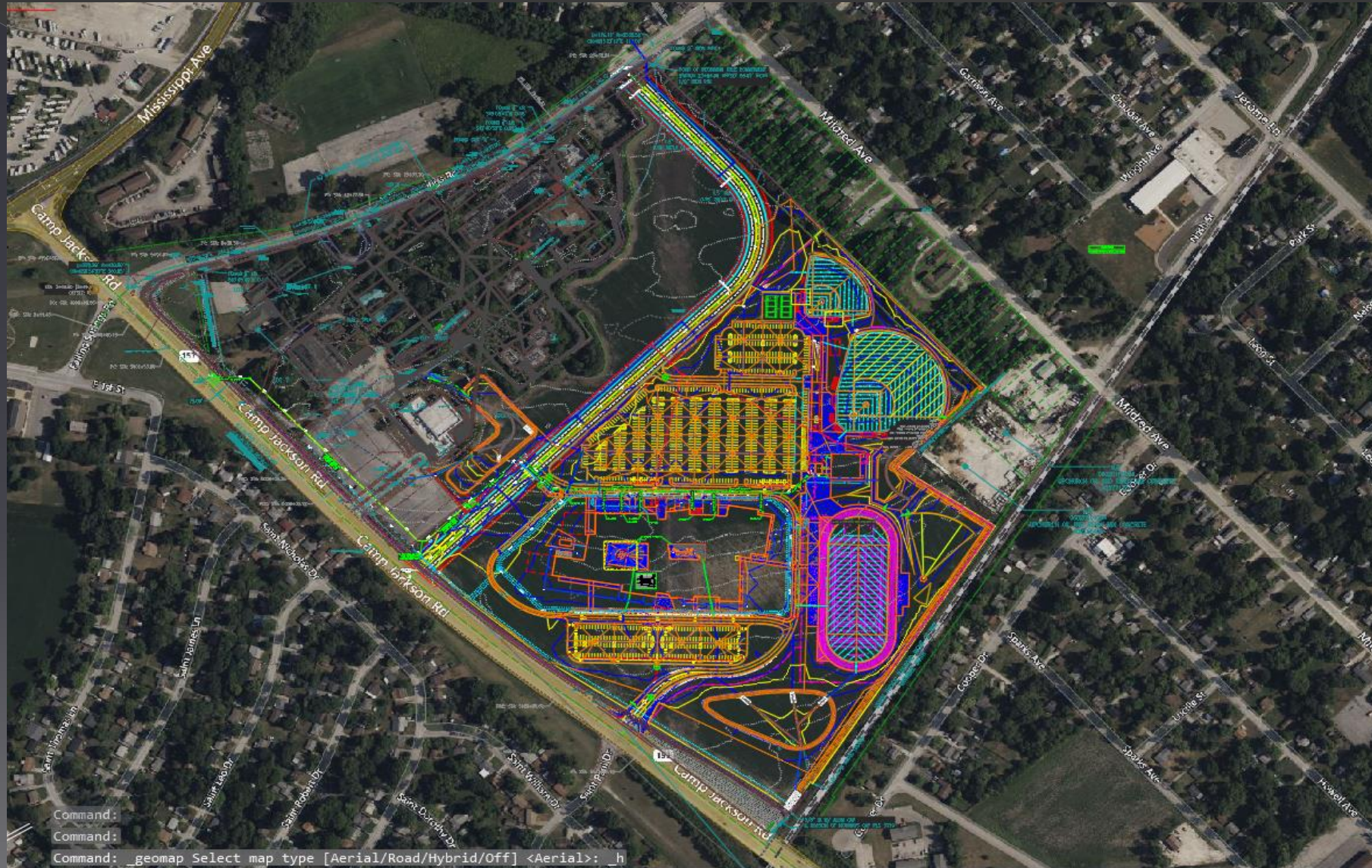
Quick Hits

- Initial build out – 1100 students
- Full build out – 1500 students
- Schedule
 - Award contract – Oct '24
 - Start construction – Oct '24
 - Complete construction – Aug '26



New and existing high school locations

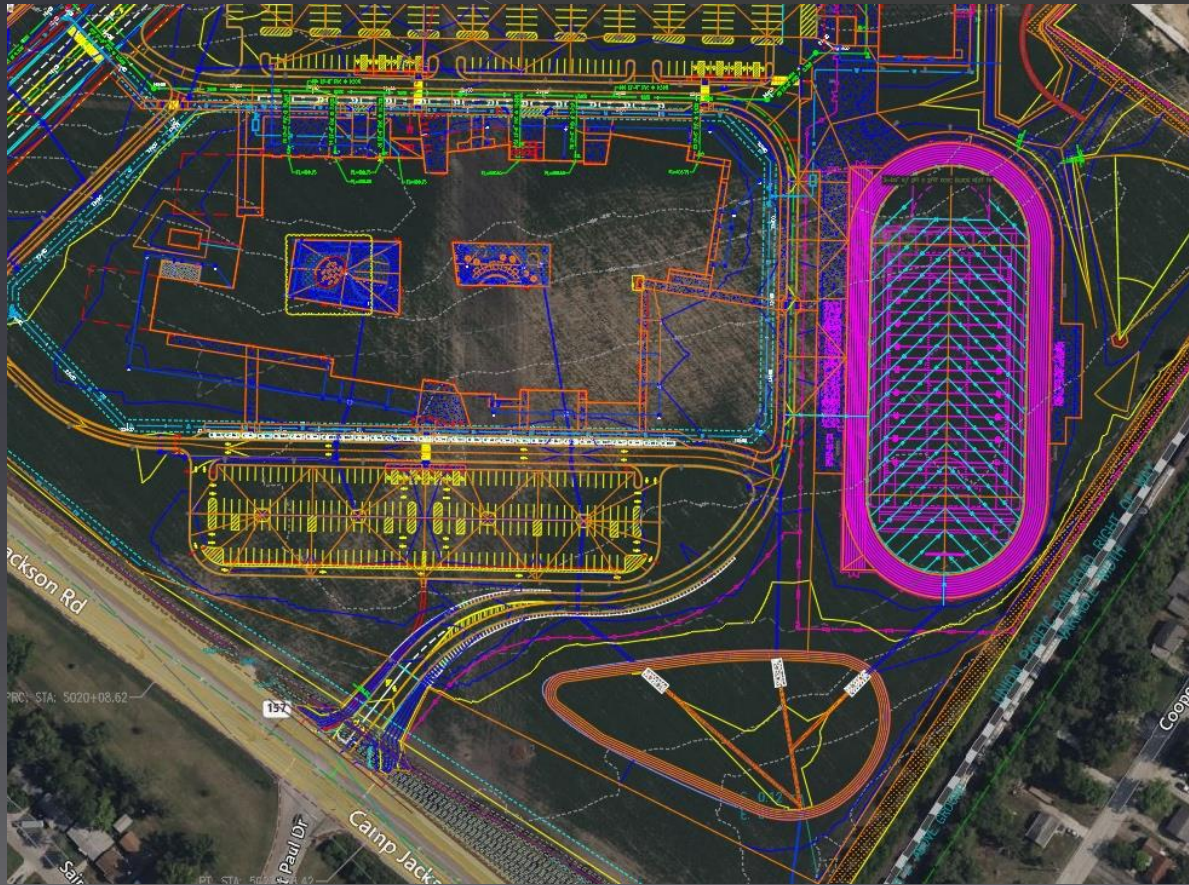
Cahokia Heights High School



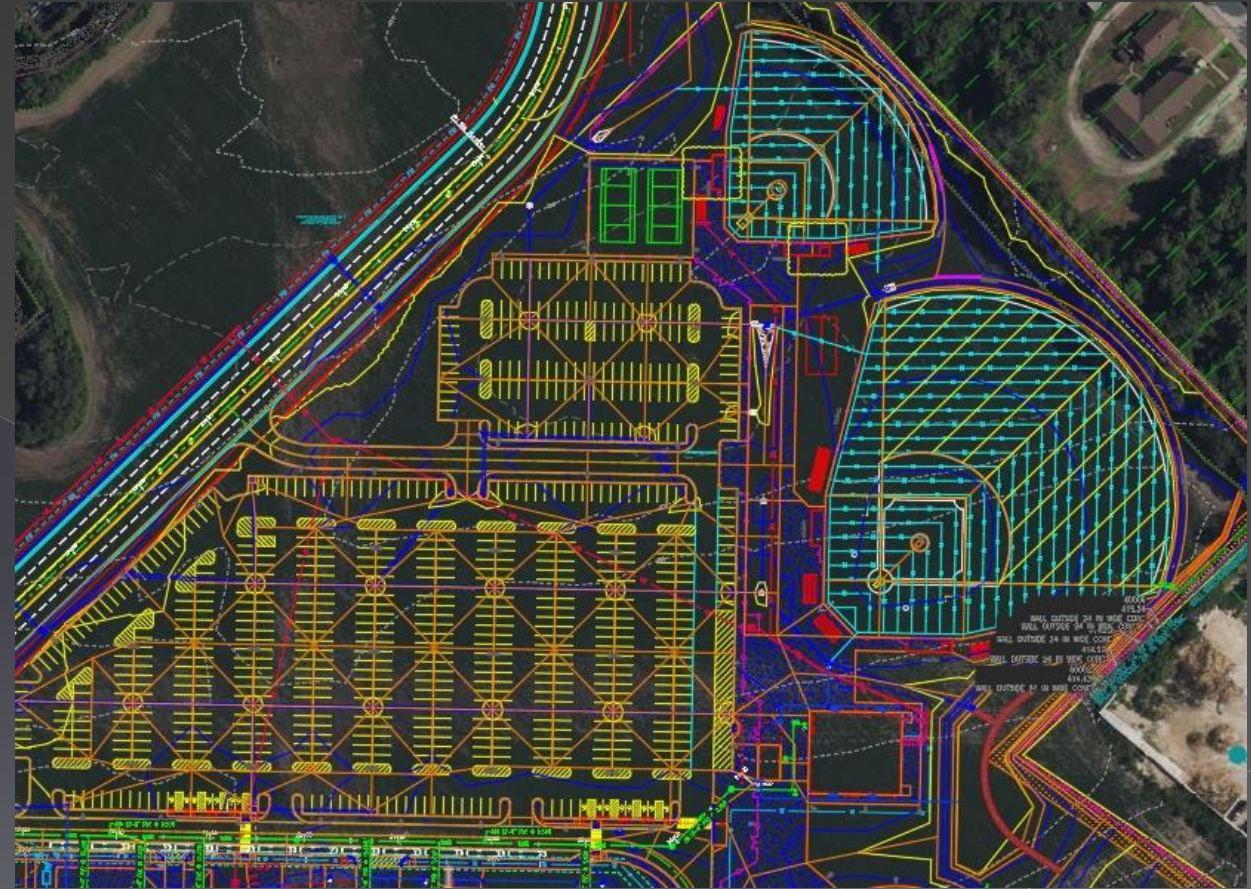
Site layout of high school campus



Cahokia Heights High School



School Building, Football Field, Track



Parking, Base/Softball Fields, Tennis Courts

5 – Lane Roadway

Quick Hits

- Being coordinated with IDOT
- Completion date similar to school
- Improve signaling for safety & flow

Connect Camp Jackson to Falling Spring Road

- Anticipated demo of Parks College
- City investigating future development potential



5-Lane Road between Camp Jackson & Falling Spring



CRITICAL INFRASTRUCTURE PROJECTS SEPARATE FROM THE IEPA WASTEWATER GRANT

- Drinking Water Storage and Disinfection
- Other Drinking Water System Infrastructure
- Stormwater Management and Flood Control
- Sewer Repairs Funded Outside the IEPA Grant
- Pump Station Repairs Funded Outside the IEPA Grant



PROJECTS SEPARATE FROM THE IEPA GRANT

DRINKING WATER SYSTEM

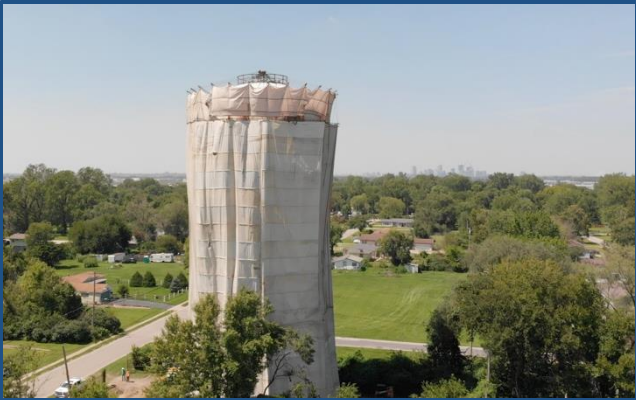
- **CURRENT (Design and Funding in Progress) - \$12 Million**
 - Water Towers
 - Booster Disinfection Systems
 - New Hydrants and Meters
 - Line Extensions
 - SCADA System
- **COMPLETED**
 - Water Tower Rehab – Church Road - \$900,000

Water Tower Rehab and Restoration – Church Road – Completed April 2024 - \$900,000

- Inspection and Report on Conditions
- Critical Safety Repairs
- Containment
- Pressure Cleaning, Sandblasting, Painting
- Foundation and Structural Repairs
- Access and Safety Improvements
- New Mixing System
- Security Fencing and Grounds Improvements



Water Tower Rehab and Restoration – Church Road – Completed April 2024





PROJECTS SEPARATE FROM THE IEPA GRANT

STORMWATER MANAGEMENT and FLOOD CONTROL

- **CURRENT (Design and Funding in Progress) - \$20 Million**
 - New Storm Sewers and Culverts
 - Major Drainage Ditch Cleanout and Regrading
 - Capacity Increase in Harding Ditch
 - Roadside Drainage Improvements and Street Paving
- **COMPLETED**
 - Storm Sewer Improvements and Paving – Piat Place
 - Roadside ditch cleanout – Ping Pong

Paving and Storm Sewer Repair – Piat Place – Completed September 2024





PROJECTS SEPARATE FROM THE IEPA GRANT

SANITARY SEWER AND PUMP STATION REPAIRS

- **CURRENT (Design and Funding in Progress) - \$28 Million**
 - Sewer Repairs
 - Pump Station Rehab/Replacements
 - Sewer and Trunkline Cleaning, TV, CIPP
 - Interceptor Sewer
 - SCADA
- **COMPLETED**
 - Sanitary Sewer Repairs – 5 locations - \$500,000
 - Pump Station Repairs/Replacements – 12 locations - \$2,000,000

Typical Sewer Repair (N. 63rd St. – completed in May 2024)



Typical Pump Station Rehab/Replacement

(N. 82nd St. –two stations completed in October 2023)



Typical Cleaning, Televising, CIPP Lining of Sewer Lines

(various locations completed in 2023, Main Trunkline started in April 2024)





Cahokia Heights Water Dept.

- The EPA has requested that 3 employees be certified in collection systems.
- We currently have 3 that have received their certification for collection systems.
- 4 additional employee have taken the test, and we are waiting on the results.
- City Employees: Kerchavian McCall and Jason McMath

City of Cahokia Heights Water & Sewer Dept.

Employee's receiving training on a video camera system.



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Projects for the City of Cahokia Heights IEPA Grant 21WWCT0RR01

*Curt Zurliene, PE
9/26/2024*

CIVIL ENGINEERING

GEOSPATIAL SERVICES

LAND SURVEYING

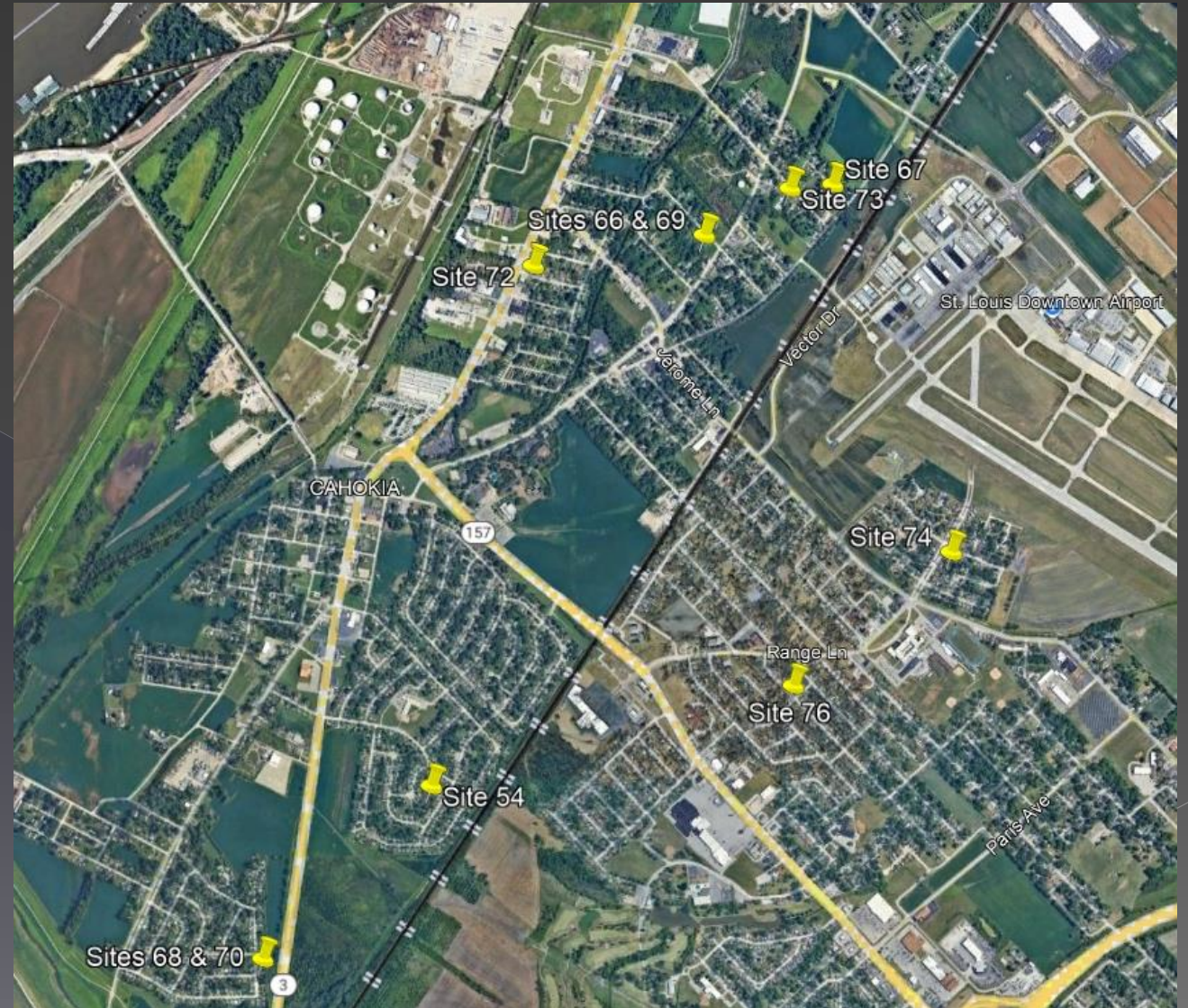
MUNICIPAL PLANNING



Sanitary Sewer Repair Project

Quick Hits

- Point Repairs/Reach Replacement
- 10 repairs, about 8 areas
- IEPA WWCTIRR Program Grant
- Schedule
 - Award contract – Oct '24
 - Work complete – May '25
- In conjunction with work being done by others



Sewer Repair Locations

Sanitary Sewer Repair Project

Work Includes

- Repairing a short section (point repair)
 - Or replace all pipe between manholes
- Repair/replace lateral connections
- Dewatering
 - Suitable construction conditions
- Bypass pumping
 - Minimize service disruptions
- Site Restoration
 - Neat final appearance



Broken Lateral



Repaired Lateral

Sanitary Sewer Repair Project



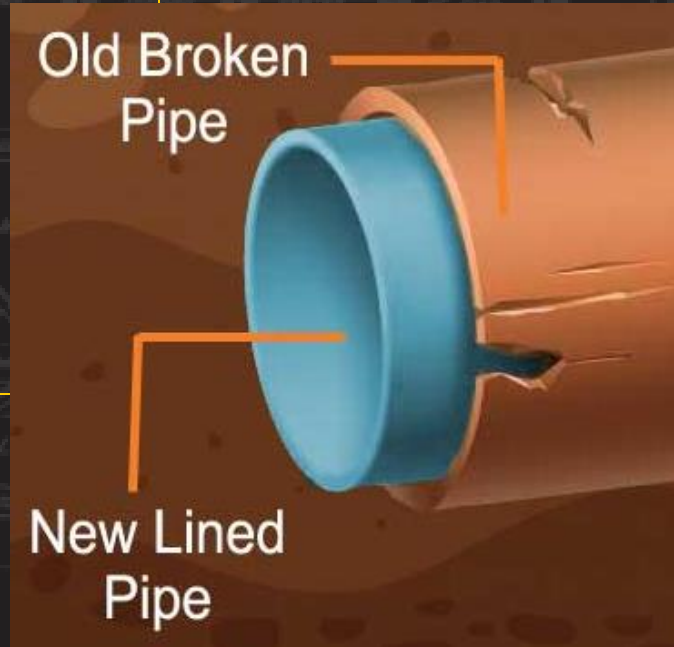
Submerged Sewer Manhole & Bypass Pipe



FOG Buildup on Sewer

SECTION 219 ENVIRONMENTAL INFRASTRUCTURE ASSISTANCE

Jacob Conway – Project Manager



US Army Corps
of Engineers®



PROJECT SCOPE AND STATUS



PROJECT SCOPE

PROJECT SPECIFICS

Sanitary Sewer Rehabilitation

Insituform Technologies USA, LLC.

- Approximately 3 miles of 9-mile-long trunk sewer system
- Using Cured-In-Place Pipe (CIPP) Lining.
 - *CIPP is a trenchless sewer rehabilitation method with no need to excavate and replace existing pipes.*
 - *This method eliminates defects in the sewer line such as cracks, offset joints, and structurally deficient segments.*

- Projected Mobilization – April 2024
- Construction Complete – April 2025

PROJECT SCHEDULE

✓ Contract Award	FEB 2024
✓ Construction Start Date	17 APR 2024
Construction Completion	Spring 2025

Budget

Who Benefits?

- FY23 Appropriation: \$3.5M Received (**Federal**)
- City's Cost Share: \$1.667M Received (**Non-Federal**)

- **Entire community**
 - This is the largest, deepest, and most downstream section of the sewer system.
- **Restoring Structural Stability = Long Term Reliability**
- **“LINING” the way for future projects**

FY24 Workplan Funds

- \$1.1M Received (**Federal**)
- City's Cost Share: \$360K (**Non-Federal**)
- Scope: Additional cleaning and lining of trunkline
- February 2025 – Initiate contract work



U.S. ARMY



CITY OF CAHOKIA HEIGHTS

IEPA GRANT - WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE

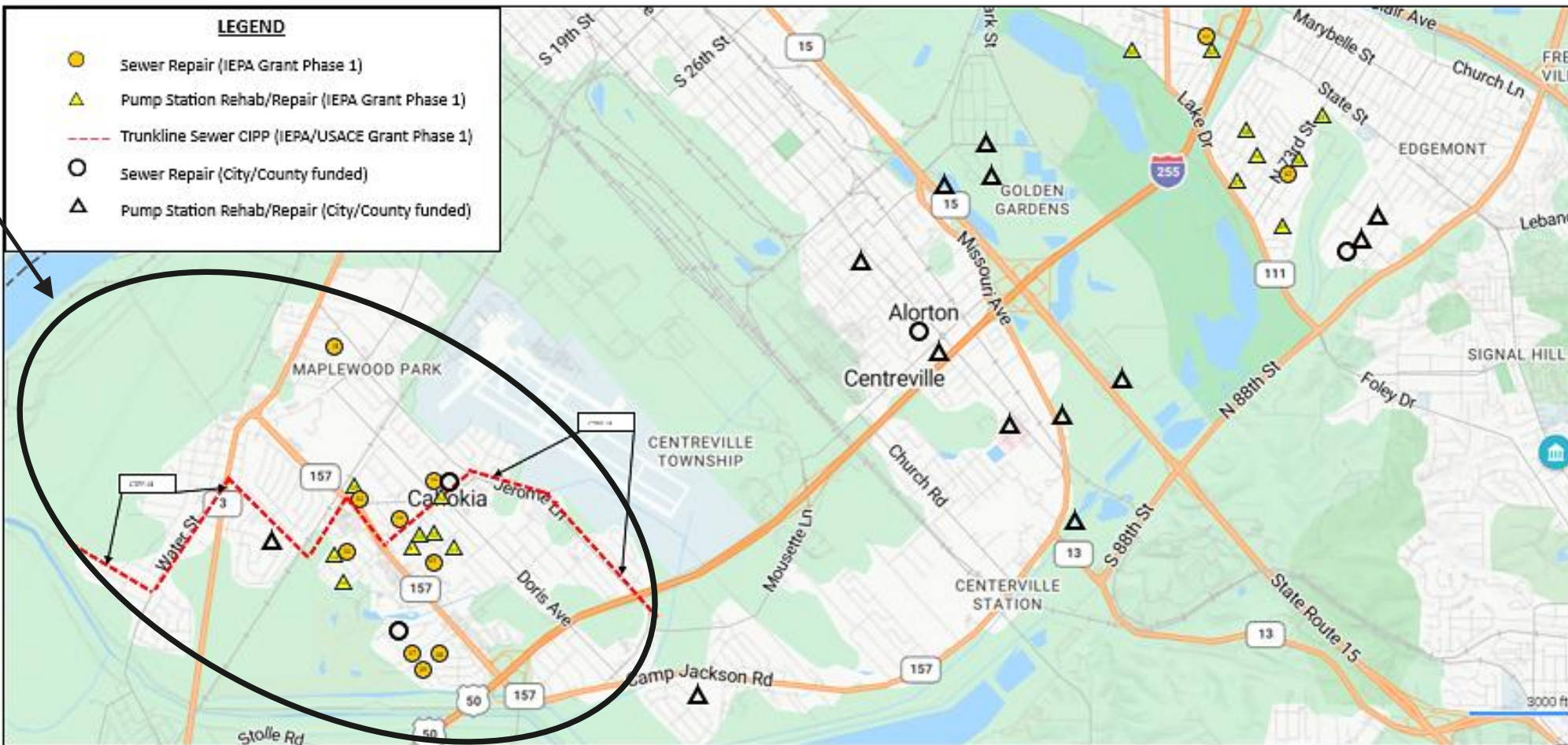


REPAIR AND REHABILITATION PROJECT LOCATIONS

USACE PROJECT

LEGEND

- Sewer Repair (IEPA Grant Phase 1)
- ▲ Pump Station Rehab/Repair (IEPA Grant Phase 1)
- Trunkline Sewer CIPP (IEPA/USACE Grant Phase 1)
- Sewer Repair (City/County funded)
- △ Pump Station Rehab/Repair (City/County funded)



IEPA Grant #	Address	IEPA Grant #	Address	IEPA Grant #	Address	IEPA Grant #	Address	IEPA Grant #	Address	IEPA Grant #	Address
CIP7-01	Jerome Lane to Levin Drive*	SSR-05	858 Mildred	SSR-20	1150 Halboran Street	PSR-06	455 N. 73rd Street (Rear)	PSR-09	1001 Carmo Jackson Road	PSR-18	617 Range Lane
SSR-01	327 N. 83rd Street	SSR-06	905 Ludlow	SSR-31	4025 White Street	PSR-05	100 N. 75th Street	PSR-30	1202 Richard Drive	PSR-15	210 Donald Street
SSR-02	320 N. 73rd Street	SSR-07	148 Blue Water Lane	PSR-01	5651 Lake Drive	PSR-06	7201 Ames Drive	PSR-31	215 Hatchings Drive	PSR-16	222 Minkell Blvd.
SSR-03	1301 St. Zita Lane	SSR-08	126 Kenneth Street	PSR-02	339 N. 83rd Street	PSR-07	7100 Park Place (Rear)	PSR-32	1201 Williams Street		
SSR-04	Cooper Drive	SSR-09	1613 Parklane Drive	PSR-03	490 N. 73rd Street	PSR-08	6951 Ames Drive	PSR-33	1227 Williams Street		



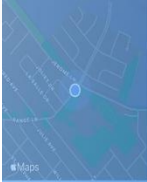


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Construction Completed

- 8,726 LF Cleaned (51%)
- 6,172 LF CIPP Installed (42%)



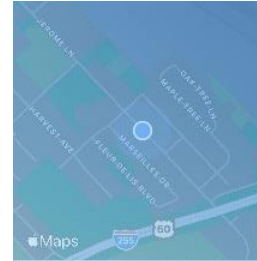
July 2, 2024 at 9:33:55 AM
+38.566624,-90.165294
Cahokia Heights, IL 62206



Cleaning Efforts w/ vacuum Truck



Live inspection & Cleaning



July 31, 2024 at 9:42:30 AM
+38.560192,-90.151707
Cahokia Heights, IL 62206



Curing Liner with Steam



U.S. ARMY

FOR MORE INFORMATION

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U.S. Army Corps of Engineers
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Shawn Sullivan
U.S. Army Corps of Engineers
Strategic Planning Coordinator
St. Louis District
Mobile (Primary): 314-303-4778
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**US Army Corps
of Engineers** ®
St. Louis District

-  Facebook.com/TeamSaintLouis
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-  Youtube.com/TeamSaintLouis
-  Instagram.com/TeamSaintLouis_USACE
-  linkedin.com/company/us-army-corps-of-engineers-st-louis-district/
-  mvs.usace.army.mil
-  teamstl-pao@usace.army.mil

<https://www.mvs.usace.army.mil/Missions/Programs-Project-Management/Cahokia-Heights/>

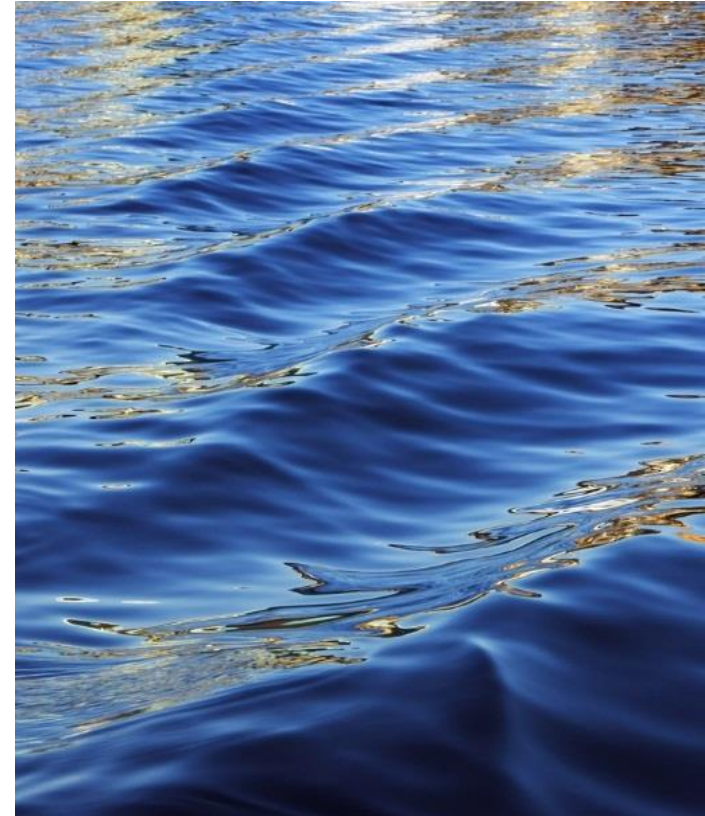


COMMUNITY OUTREACH MEETING

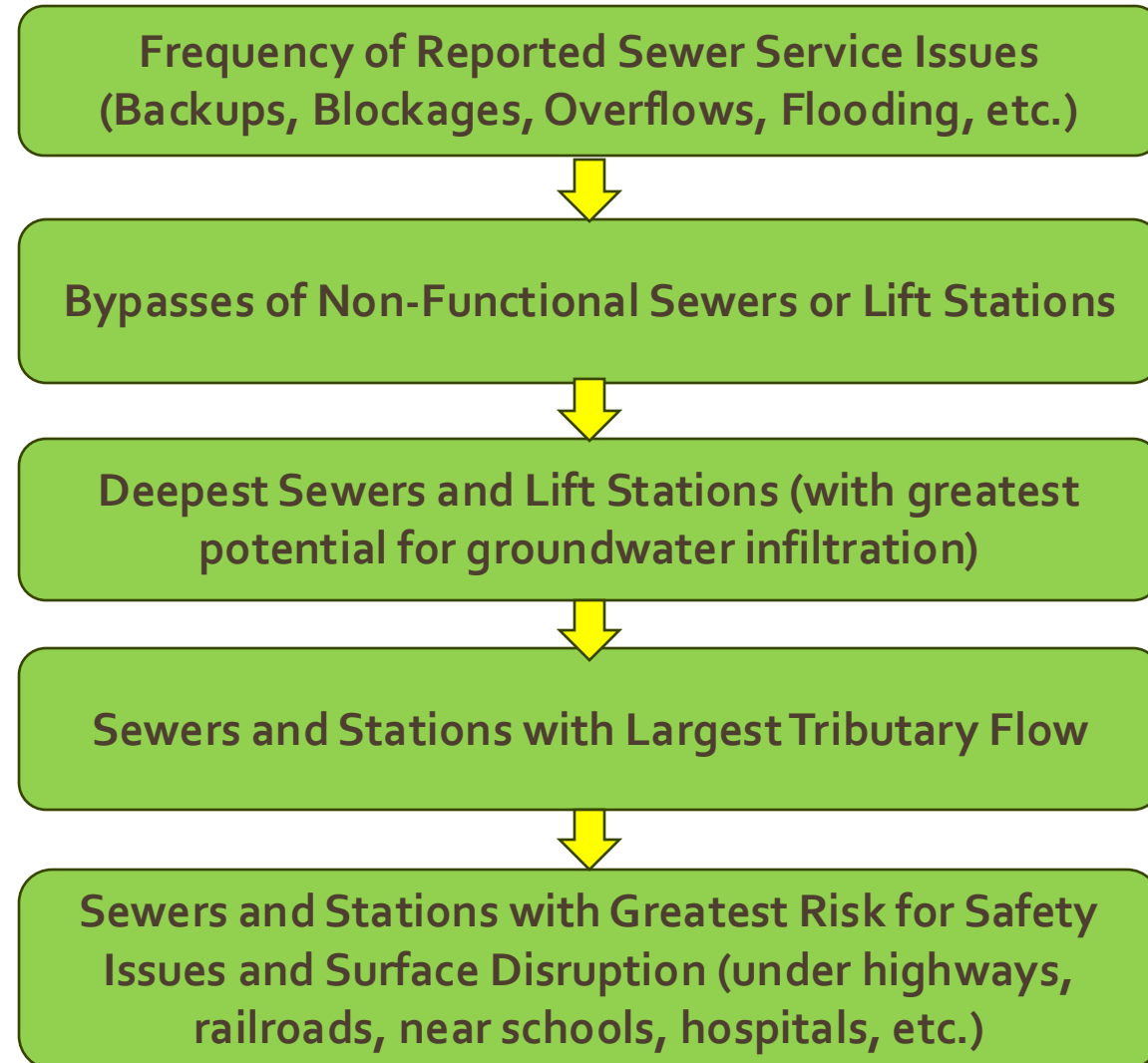
City of Cahokia Heights
Illinois EPA – Bureau of Water

Wastewater Collection and
Transport Infrastructure Rehabilitation and
Restoration Project – 21WWCT0RR01

September 2024



PROJECT LOCATION SELECTION AND PRIORITY



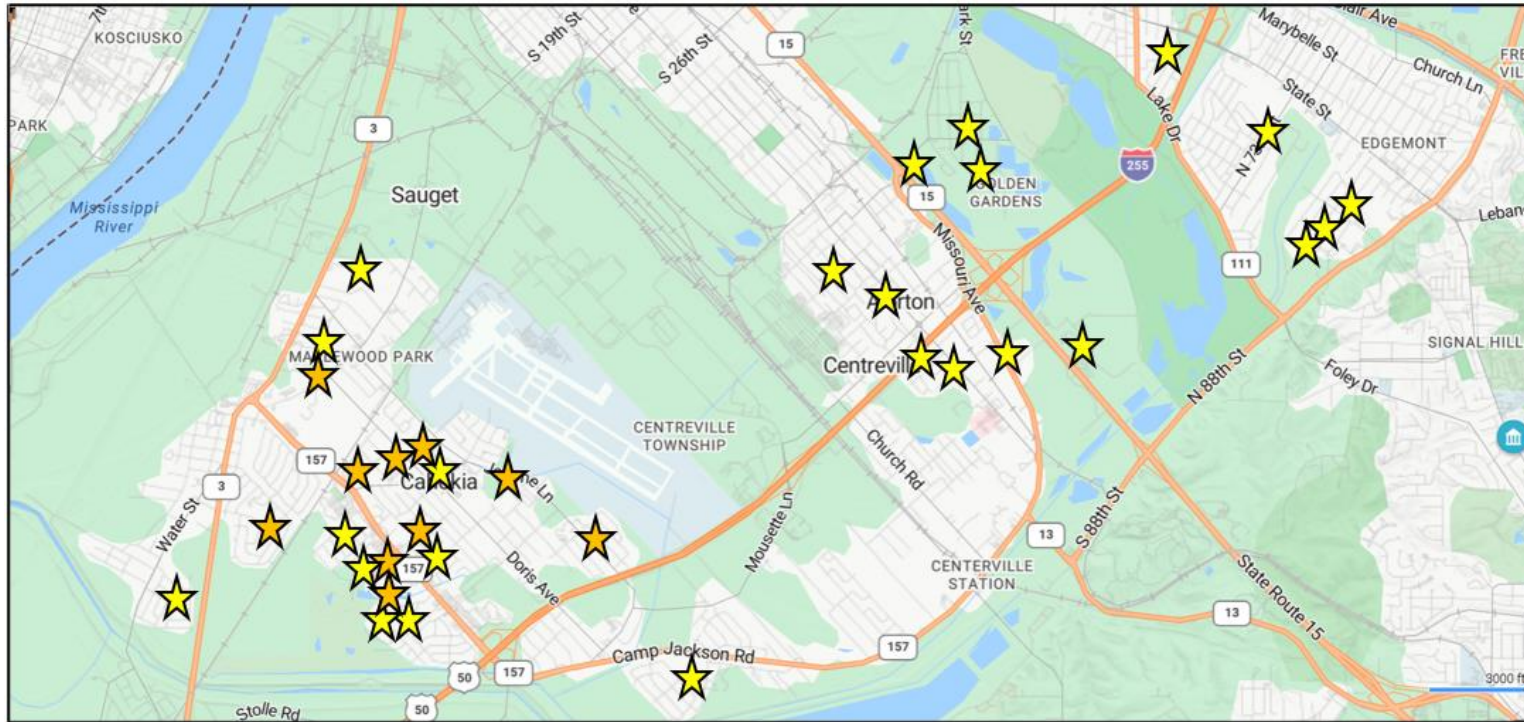
Jerome Lane Emergency Sewer Repair



- **Failure and subsidence of manhole on main trunkline**
- **Damage became visible after heavy rains July 2024**
- **Damage to street, curb & gutter, guardrail**
- **Large power pole with transformer close by**
- **Across Jerome Lane from school and school bus depot**
- **Large line (24" diameter) approx. 19 feet deep**
- **Repair will require:**
 - **New manholes and trunkline sections**
 - **Several dewatering wells to lower groundwater levels to enable repair**
 - **Deep excavation with shoring**
 - **Traffic re-routing**
 - **Street restoration**
- **Expected completion in November 2024**



RECENT & CURRENT SEWER PROJECTS



★ COMPLETED

500 S. 42nd St.	Lift Station Rehabilitation	\$164,000	Various	Clean, TV and CIPP Sewer Lining	\$ 58,000
4972 Bond Ave.	Sanitary Sewer Repair	\$132,000	4211 Pocket Rd.	Lift Station Rehabilitation	\$ 121,000
4200 Missouri Ave.	Lift Station Replacement	\$103,000	239 Pfeiffer Rd.	Lift Station Rehabilitation	\$ 116,000
143 Racehorse Dr.	Lift Station Replacement	\$ 51,000	320 N. 82nd St.	Lift Station Replacement	\$ 189,000
800 Range Ln.	Sanitary Sewer Repair	\$ 69,000	352 N. 82nd St.	Lift Station Replacement	\$ 189,000
5800 Bond Ave.	Lift Station Rehabilitation	\$130,000	6927 Old Missouri Ave.	Lift Station Replacement	\$ 209,000
219 N. 82nd St.	Sanitary Sewer Repair	\$158,000	327 N. 63rd St.	Sanitary Sewer Repair	\$ 96,000
301 St. John Dr.	Sanitary Sewer Repair	\$121,000	310 N. 73rd St.	Sanitary Sewer Repair	\$ 111,000
5800 Old Missouri Ave.	Lift Station Replacement	\$199,000	5008 Market Ave.	Lift Station Replacement	\$ 263,000
36 East Adams Dr.	Lift Station Replacement	\$228,000	1150 Halloran St.	Sanitary Sewer Repair	\$ 123,380
1613 Parklane Drive	Sanitary Sewer Repair	\$ 68,600		TOTAL	\$ 2,898,980

★ IN PROGRESS

1301 St. Zita Ln.	Sanitary Sewer Repair	\$ 93,500
1001 Camp Jackson Rd.	Sanitary Sewer Repair	\$ 110,600
858 Mildred Ave.	Sanitary Sewer Repair	\$ 303,300
905 LaSalle Dr.	Sanitary Sewer Repair	\$ 126,765
148 Blue Water Ln.	Sanitary Sewer Repair	\$ 78,870
126 Kenneth St.	Sanitary Sewer Repair	\$ 176,385
4005 White St.	Sanitary Sewer Repair	\$ 261,570
817 St. Monica Dr.	Lift Station Replacement	\$ 256,000
1689 Jerome Lane	Sanitary Sewer Repair (Trunkline)	\$ 1,200,000
Main Trunkline	Clean, TV, & CIPP Sewer Lining	\$ 4,628,000
	TOTAL	\$ 7,234,990



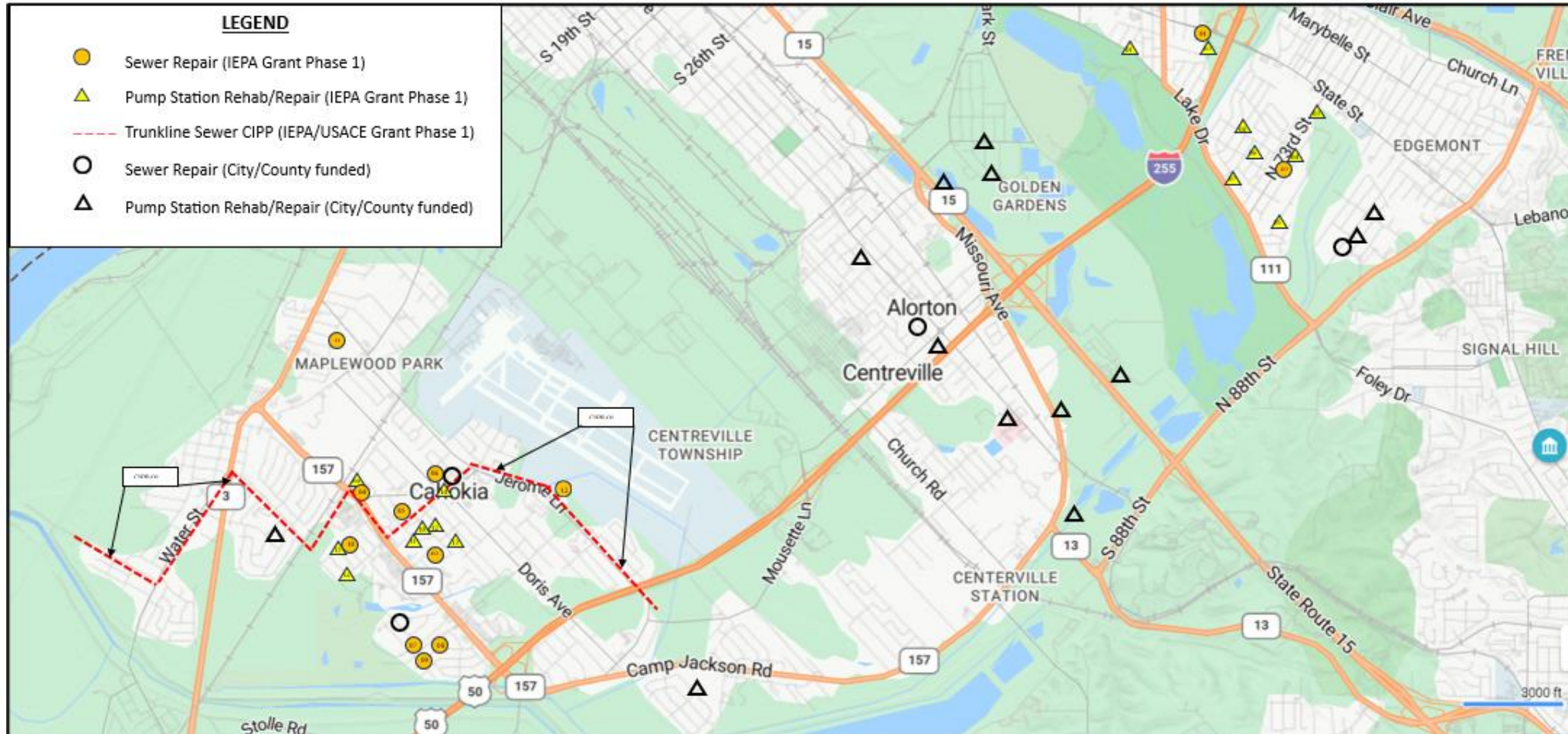
CITY OF CAHOKIA HEIGHTS

IEPA GRANT - WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE



Illinois Environmental Protection Agency

REPAIR AND REHABILITATION PROJECT LOCATIONS



IEPA Grant #	Address	IEPA Grant #	Address	IEPA Grant #	Address	IEPA Grant #	Address	IEPA Grant #	Address	IEPA Grant #	Address
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SSR-03	1301 St. Zita Lane	SSR-08	126 Kenneth Street	PSR-02	339 N. 63rd Street	PSR-07	7100 Park Place (Rear)	PSR-12	1201 Williams Street	SSR-12	1689 Jerome Lane
SSR-04	Cooper Drive	SSR-09	1613 Parklane Drive	PSR-03	490 N. 73rd Street	PSR-08	6951 Ames Drive	PSR-13	1227 Williams Street		



IEPA GRANT – STATUS AND LOOK AHEAD





(projected milestones)

September 2024

October 2024

November 2024

December 2024

Bid Package	Location				
1	<u>CIPP-01</u> Trunkline Section 1 – Levin Dr. to Jerome Ln. & Mousette Ln.	Continue Construction	Continue Construction	Continue Construction	Continue Construction
3	<u>SSR-03 thru 11</u> Nine Sewer Repair Locations	Continue Construction	Continue Construction	Complete Construction	
4	<u>PSR-01 thru 16</u> Sixteen Pump Station Locations	Receive Bids and Make Award	Commence Construction (order long lead time equip.)	Continue Construction	Continue Construction
5	<u>SSR-13 thru 22</u> Ten Sewer Repair Locations	Receive Bids and Make Award	Commence Construction	Continue Construction	Continue Construction

Q/A



**WE WILL NOW TAKE QUESTIONS REGARDING
IEPA Grant 21WWCTIRR01**

**THANK YOU FOR ATTENDING
THE NEXT OUTREACH MEETING WILL BE DECEMBER 2024
(LOCATION TBD AND WILL BE ADVERTISED VIA MAILERS,
TEXT MESSAGE BLAST, SOCIAL MEDIA AND IN YOUR LOCAL
BUSINESSES)**