CITY OF MIDWEST CITY MEETINGS FOR August 12, 2025

All Council/Authority/Commission meetings of the City of Midwest City (MWC) elected officials will be held in the Council Chamber located at 100 N. Midwest Blvd., Midwest City, OK 73110, Oklahoma County, Oklahoma, unless notified otherwise.

Regularly scheduled meetings of the elected officials will be streamed live and recorded on the MWC YouTube channel: **Bit.ly/CityofMidwestCity** with the recorded videos available there within 48 hours.

Special Assistance for a Meeting: Send request via email to tanderson@midwestcityok.org or call 405-739-1220 no less than 24 hours prior to the start of a meeting. If special assistance is needed during a meeting, call 739-1388.

Please note that the elected officials will informally gather at or after 5:00 PM in the City Manager's Conference room for dinner for evening meetings; however, no business will be discussed or acted upon. Meals will only be provided to the City Council and staff. Doors to the Council Chamber will be open to the public fifteen minutes prior to the start of a meeting.

For the purposes of all meetings of the MWC elected and/or appointed officials, the term "possible action" shall mean possible adoption, rejection, amendments, postponements, and/or recommendation to the City Council and/or Authorities.

Pursuant to Midwest City Resolution 2022-50, the following rules of conduct and engagement are in effect for all meetings of the MWC elected and/or appointed officials:

1. Only residents of the City, and/or identifiable business doing business in or with the City, or where it is required by statute during public hearings may speak during a public meeting, unless by majority vote of the City Council, non-residents may be permitted to comment on agenda items that impact them. To verify this new requirement, speakers must state their name and City residential/business address or provide/present proof of residential/business address to the City Clerk before addressing the elected officials.

2. There will be a 4 (four) minute time restriction on each speaker, which can be extended by a vote of the City Council, only if it benefits and/or clarifies the discussion at hand. The City Clerk, or designee, will be the timekeeper and will notify the chair when time has expired.

3. The Mayor/Chair reserves the right to remove individuals from the audience if they become disorderly. If the Mayor/Chair asks a disruptive individual to leave and the individual refuses to leave, the meeting will be recessed and appropriate law enforcement action will be taken.

4. Agenda items requesting action of the elected officials shall include:
    1. Presentation by City Staff and/or their invited guest speaker;
    2. If a public hearing is required, questions and discussion by and between the elected officials, City Staff, and the public;
    3. Questions and discussion by and between the elected officials and City Staff, invited guest speaker, and/or public during a public hearing; and
    4. Motion and second by the elected officials.
    5. If a motion is to be amended, the one who made the motion may agree and restate the motion with the amendment; however, if the maker of the motion does not agree to the amendment, the motion may be voted on as it stands.
    6. Final discussion and possible action/amended motion by the elected officials.

CITY OF MIDWEST CITY COUNCIL AGENDA

City Hall - Midwest City Council Chambers, 100 N. Midwest Boulevard

August 12, 2025 – 5:00 PM

Presiding members: Mayor Matthew Dukes		City Staff:
Ward 1 Susan Eads	Ward 2 Pat Byrne	City Manager Tim Lyon
Ward 3 Rita Maxwell	Ward 4 Marc Thompson	City Clerk Sara Hancock
Ward 5 Sara Bana	Ward 6 Rick Favors	City Attorney Don Maisch

A. CALL TO ORDER.

B. OPENING BUSINESS.

- Invocation by Assistant City Manager Vaughn Sullivan
- Pledge of Allegiance

C. DISCUSSION ITEMS.

1. Discussion, consideration, and possible action approving a programming resolution for possible inclusion into the Community Economic Resiliency Initiative (CERI) planning demonstration site program for a project to study the NE 23rd St. corridor. (Community Development - M. Summers)

2. Discussion and presentation by Freese and Nichols, Inc. on the findings of the study of the City's sanitary sewer system and lift station infrastructure. (R. Paul Streets - Public Works Director).

D. NEW BUSINESS/PUBLIC DISCUSSION. "In accordance with State Statue Title 25 Section 311. Public bodies - Notice. A-9, the purpose of the "New Business" section is for action to be taken at any Council/Authority/Commission meeting for any matter not known about or which could not have been reasonably foreseen 24 hours prior to the public meeting. The purpose of the "Public Discussion" section of the agenda is for members of the public to speak to the Council on any subject not scheduled on the regular agenda. The Council shall make no decision or take any action, except to direct the City Manager to take action, or to schedule the matter for discussion at a later date. Pursuant to the Oklahoma Open Meeting Act, the Council will not engage in any discussion on the matter until that matter has been placed on an agenda for discussion. THOSE ADDRESSING THE COUNCIL ARE REQUESTED TO STATE THEIR NAME AND ADDRESS PRIOR TO SPEAKING TO THE COUNCIL."

E. ADJOURNMENT.

Community Development Department
100 N. Midwest Blvd, Midwest City, OK

To:	Honorable Mayor and Council
From:	Matt Summers, Community Development Director
Date:	August 12, 2025
Subject:	Discussion, consideration, and possible action approving a programming resolution for possible inclusion into the Community Economic Resiliency Initiative (CERI) planning demonstration site program for a project to study the NE 23rd St. corridor.

The Community Development Department is making application for funding through the Community Economic Resiliency Initiative program from ACOG. The grant is for planning services through OU's Institute of Quality Communities (IQC). If selected, this project would study NE 23rd Street from the railroad bridge west of N. Air Depot Blvd. to N. Post Road.

NE 23rd Street is also US Highway 62. This project would help staff plan improvements to this important corridor for land use, streetscape, and beautification. As part of this project, staff will also coordinate with the City of Spencer and Oklahoma County.

The accompanying resolution is required in order to have the referenced application considered for approval by ACOG. All projects that apply for this funding must be programmed in this manner. Programming does not guarantee the project will be funded since it competes with projects submitted by other entities across the metropolitan area. This grant requires a 10% local match, not to exceed $3,000.

- CERI Funds: $27,000.00
- Local Match: $3,000.00
- Estimated Total Cost: $30,000.00

No City funds are obligated at this time.

Matt Summers, AICP
Community Development Director.

RESOLUTION NO. _____

A RESOLUTION OF THE CITY COUNCIL OF MIDWEST CITY, OKLAHOMA, REQUESTING THAT THE ASSOCIATION OF CENTRAL OKLAHOMA GOVERNMENTS (ACOG) CONSIDER THE SELECTION OF THE VISION 23 DISTRICT STREETSCAPE, AS A PROJECT CANDIDATE FOR THE COMMUNITY ECONOMIC RESILIENCY INIATIVE (CERI) PLANNING DEMONSTRATION SITE PROGRAM.

WHEREAS, ACOG has made available EDA Planning Grant Funds to provide planning services for municipalities that are current members of the ACOG Board of Directors in partnership with the University of Oklahoma Institute for Quality Communities (IQC); and

WHEREAS, The City of Midwest City has selected a project planning proposal; and

WHEREAS, the city agrees to provide extensive community engagement to make the planning demonstration site process a success and provide ongoing local support to ensure future project implementation and maintenance funding, and

WHEREAS, the city assures that no qualified person with a disability shall, solely by reason of their disability, be excluded from participation in, be denied the benefits of or otherwise be subjected to discrimination under any program or activity administered by the city; and

WHEREAS, the city further understands that acceptance of this resolution by ACOG is not a commitment to being selected as a CERI Program Planning Demonstration Site, but only registers the city's interest and commitment in participating in the program application process.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF MIDWEST CITY, OKLAHOMA COUNTY, STATE OF OKLAHOMA:

That ACOG is hereby requested to consider the selection of this project application to the CERI Review Committee for assessment and to the ACOG Board of Directors for final consideration.

If selected for the CERI Planning Demonstration Site program, the city of Midwest City will pay a sum of $3,000 upon the execution of the contract between the city and ACOG for participation in the CERI Program.

PASSED AND APPROVED by the Mayor and Council of the City of Midwest City, Oklahoma, on the _____ day of _____, 2025.

THE CITY OF MIDWEST CITY, OKLAHOMA

_____
MATTHEW D. DUKES II, Mayor

ATTEST:

_____
SARA HANCOCK, City Clerk

APPROVED as to form and legality this _____ day of _____, 2025.

_____
DONALD MAISCH, City Attorney

Public Works Administration
8730 S.E. 15th Street,
Midwest City, Oklahoma 73110
Public Works Director
pstreets@midwestcityok.org
(405) 739-1061
Assistant Public Works Director
cevenson@midwestcityok.org
(405) 739-1062
www.midwestcityok.org

To: Honorable Mayor and Council

From: R. Paul Streets, Public Works Director

Date: August 12, 2025

Subject: Discussion and presentation by Freese and Nichols, Inc. on the findings of the study of the City's sanitary sewer system and lift station infrastructure.

On October 17, 2023, the Oklahoma Water Resources Board approved the City of Midwest City's request for an American Rescue Plan Act (ARPA) grant and committed funds in the amount of $2,000,000.00 for the development of citywide master plans for the water, wastewater, and stormwater infrastructure and construction of water lines needed to connect the Water Resources Recovery Facility and Centrillium to Midwest City's water supply system.

On July 26, 2022, the City of Midwest City and Freese and Nichols, Inc., (FNI) entered into a Professional Services Agreement for an assessment of the sanitary sewer system and lift station infrastructure focusing on the eastern portions of the sewer system and its current and future capacity needs in response to continued development. On January 23, 2024, Amendment No. 3 to this agreement was approved by Council and expanded upon the work already conducted on the east side of Midwest City to review the sanitary sewer system and lift station infrastructure across the entire City. This information will be necessary in the development of a citywide Wastewater Master Plan.

The Executive Summary and study findings will be available for review at the Council meeting.

Respectfully,

R. Paul Streets

R. Paul Streets
Public Works Director

Attachment

Innovative approaches
Practical results
Outstanding service

EXECUTIVE SUMMARY
WASTEWATER COLLECTION SYSTEM
MASTER PLAN

Prepared for:

Midwest City

August 2025

Prepared by:

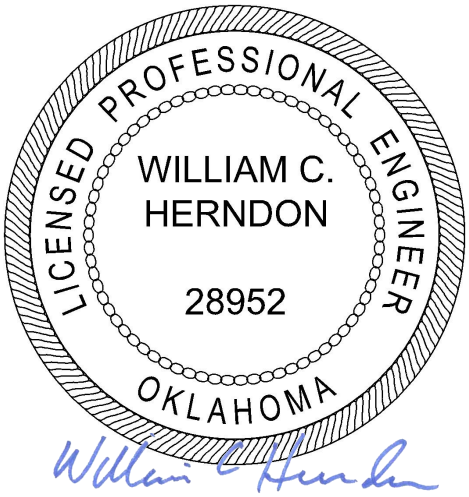
FREESE AND NICHOLS, INC.
3600 NW 138th St., Suite 202
Oklahoma City, OK 73134
405-607-7060

Innovative approaches
Practical results
Outstanding service

EXECUTIVE SUMMARY
WASTEWATER COLLECTION SYSTEM MASTER PLAN

Prepared for:

MIDWEST CITY



08/08/2025

Prepared by:

FREESE AND NICHOLS, INC.
3600 NW 138th St., Suite 202
Oklahoma City, OK 73134
405-607-7060
CA #511; Exp. 6/30/2026

FNI Project Number: MDW22622B

1.0 INTRODUCTION

This report presents the analysis, findings, and results of the Wastewater Collection System Master Plan prepared by Freese and Nichols, Inc. (FNI) for Midwest City (the City). The purpose of this master plan is to evaluate the existing system, assess its performance, identify deficiencies, and recommend improvements needed to accommodate future conditions. Historical wastewater flow data was reviewed to establish trends and project flows for future system evaluation. Based on this analysis, a Capital Improvement Plan (CIP) was developed for the collection system, divided into the following phases: 0–2 years, 2–5 years, 5–10 years, and 10–20 years. The recommended improvements will serve as the basis for the design, construction, and financing of pipelines and facilities needed to support the City's future collection system needs. The major elements of the project scope include:

- Temporary Flow Monitoring and Flow Data Analysis
- Population and Wastewater Flow Projections
- Wastewater Model Development and Calibration
- Hydraulic Capacity Analysis, System Evaluation, and Prioritized Capacity CIP
- Risk-Based Assessment and Prioritized Renewal CIP
- Lift Station Condition Assessment
- Wastewater Collection System Master Plan Report

A concurrent effort is underway to develop a comprehensive Water Resource Recovery Facility (WRRF) Master Plan. The WRRF Master Plan project will address treatment facility capacity, condition, and future improvements. Therefore, the Wastewater Collection System Master Plan focuses on the pipelines and facilities that make up the collection system and does not contain recommendations regarding necessary improvements or expansions to the WRRF.

2.0 EXISTING WASTEWATER COLLECTION SYSTEM

Midwest City's wastewater service area covers approximately 22.1 square miles. Within the service area, there are approximately 292 miles of sewer lines and 16 lift stations that are owned and operated by the City. The wastewater collection system is primarily a gravity flow system that follows the major drainage features of the service area including Crutcho Creek, Soldier Creek, and Choctaw Creek. Wastewater lines range from 4- to 48-inches in diameter and convey an average daily flow of approximately 6.6 million gallons per day (MGD) to the WRRF. Through an agreement with the City of Oklahoma City, a portion of

the wastewater collection system in the southwestern corner of the City conveys flow to the 42-inch Oklahoma City interceptor along Crutcho Creek. The agreement assumes an even swap with flow from Oklahoma City conveyed to the City of Midwest City collection system through a 36-inch interceptor along Crutcho Creek on the western side of the City. The existing wastewater collection system is shown in **Figure 2-1**.

3.0 TEMPORARY FLOW MONITORING

Flow monitoring data was used to examine the existing dry weather and wet weather flows, evaluate the effects of rainfall on the wastewater collection system, and provide real-world data to calibrate the hydraulic model for evaluating the capacity of the system to transport peak flows. The system was evaluated using 18 temporary flow meters and four City rain gauges installed throughout the collection system for a 60-day period beginning April 20, 2024 and ending on June 20, 2024. The locations were strategically selected to allow the temporary flow meters to monitor the system's performance during rain events to identify inflow and infiltration (I/I) and provide data for hydraulic model calibration.

4.0 POPULATION AND WASTEWATER FLOW PROJECTIONS

Population and land use are important elements in the analysis of wastewater systems. Wastewater flows depend on the residential population and commercial development served by the system. An analysis of historical and projected populations, along with land use, provides the basis for projecting future flows. The City of Midwest City has experienced moderate population growth over the last several decades. The average growth rate from 1990 through 2020 was 0.4%. In October of 2024, the City began updating the Citywide Comprehensive Plan. The project team coordinated with the comprehensive planning team on existing and future population and non-residential growth projections. The projected population and non-residential acreage for each planning period are shown in **Table 4-1**.

Table 4-1: City of Midwest City Population and Non-Residential Acreage Projections

Year	Planning Period	Population	Population CAGR (%)	Non-Residential Acreage	Non-Res CAGR (%)
2024	existing	60,062	-	2,600	-
2029	5-year	61,288	0.40%	2,687	0.66%
2034	10-year	63,279	0.64%	2,797	0.81%
2044	20-year	69,052	0.88%	3,004	0.72%

FIGURE 2-1

CITY OF MIDWEST CITY

EXISTING WASTEWATER SYSTEM

LEGEND

MAJOR BASIN
- Crutcho Creek
- Eastside
- Oklahoma Clty
- Soldier Creek

- Manhole
- Lift Station
- WRRF — Water Resources Recovery Facility
- 8" and Smaller Gravity Main
- 10" and Larger Gravity Main
- 8" and Smaller Force Main
- 10" and Larger Force Main
- Oklahoma City Wastewater Line
- Road
- Stream
- Railroad
- City Limit
- Other City Limit

FREESE and NICHOLS

MIDWEST CITY — Where the Spirit Flies High

Centrillium LS

WRRF

Shadynook LS
Firm Capacity = 1.41 MGD

30th Street LS
Firm Capacity = 0.26 MGD

24", 30", 48" Parallel Lines

Compa LS
Firm Capacity = 0.50 MGD

Edgewood LS
Firm Capacity = 2.30 MGD

Elizabeth LS
Firm Capacity = 0.24 MGD

Lagoon LS
Firm Capacity = 0.52 MGD

Shapard LS
Firm Capacity = 0.35 MGD

West One LS
Firm Capacity = 0.33 MGD

Anderson LS
Firm Capacity = 0.79 MGD

Hiwassee LS
Firm Capacity = 0.72 MGD

East I-5 LS
Firm Capacity = 0.67 MGD

Aviation Acres LS
Firm Capacity = 0.79 MGD

Turtlewood LS
Firm Capacity = 0.19 MGD

Timber Ridge LS
Firm Capacity = 0.32 MGD

Timberland LS
Firm Capacity = 0.37 MGD

Forest Park
Spencer
Oklahoma City
Del City
Nicoma Park
Choctaw
Crutcho Creek
Soldier Creek
Oklahoma City
Eastside

0 1,500 3,000
SCALE IN FEET

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Wastewater flows were projected for existing, 2029, 2034, and 2044 conditions. The portion of the flow conveyed to Oklahoma City is assumed to be an even swap with similar flow being conveyed to Midwest City. Therefore, the flow projections for the City represent the total flow projection to the Midwest City WRRF. The evaluation of historical data provided a basis for determining the design criteria used to project wastewater flows. Table 4-2 summarizes the projected wastewater flows for each planning year.

Table 4-2: Projected Wastewater Flows

Year	Population	Per Capita (gpcd)	Non-Residential Acreage	Per Acre (gpad)	Average Day (MGD)	Peaking Factor	Peak Wet Weather (MGD)
2024	60,062	75	2,600	800	6.58	4.0	26.34
2029	61,288	75	2,687	800	6.75	4.0	26.98
2034	63,279	75	2,797	800	6.98	4.0	27.93
2044	69,052	75	3,004	800	7.58	4.0	30.33

5.0 WASTEWATER MODEL DEVELOPMENT AND CALIBRATION

FNI developed a hydraulic wastewater model to be used as a tool for evaluating the wastewater collection system using the InfoWorks ICM software by Autodesk. InfoWorks ICM uses engineering equations and mathematical algorithms to determine the flows and velocities that occur in a collection system under a specified set of conditions. This allows the user to model and evaluate system performance over time and integrates asset planning with hydraulic modeling. Asset data from the City's geographic information system (GIS) geodatabase, including pipe diameter, material, and installation date, were provided and imported into the model. Manhole survey data was collected at 440 manholes throughout the collection system to determine invert data as no information was available within GIS and access to as-built drawings is limited to certain lines within the system. The model was then calibrated for dry weather and wet weather conditions and adjustments were made to match the model to the observed conditions. The model contains all of the wastewater lines in the Midwest City collection system and was used to evaluate the existing system capacity and develop system improvements needed to meet projected future growth conditions and address any deficiencies.

6.0 HYDRAULIC ANALYSIS

Following model calibration for both dry and wet weather storm events and development of a 5-year, 6-hour design storm, the next step in the Wastewater Collection System Master Plan process was to use the hydraulic wastewater model to evaluate the collection system under existing and future flows and evaluate alternatives to address modeled capacity deficiencies. The existing system utilized the selected design storm to determine areas where model predicted surcharging or overflows would occur. Mapping was developed to show areas where the capacity of the system is exceeded by the loading upstream.

Similar hydraulic analyses were conducted to identify deficiencies in the City wastewater system and establish a CIP to reinforce the existing system and convey projected wastewater flows through the 2045 planning period. Various combinations of improvements and modifications were investigated to determine the most appropriate approach for conveying projected flows. The existing wastewater system analysis is shown in **Figure 6-1**.

7.0 RISK-BASED ASSESSMENT

A risk-based assessment (RBA) was conducted to identify renewal projects, which may include pipe replacement and lift station maintenance activities needed to maintain the integrity of the wastewater collection system. Condition and criticality scores were assigned to each gravity main in the collection system based on scoring parameters that were developed in coordination with City staff. The overall risk associated with the potential failure of each asset was determined by multiplying the condition and criticality scores. The results of the risk-based assessment were used to prioritize gravity main renewal projects. The RBA also includes recommendations for the ongoing implementation of the City's asset management and maintenance programs.

8.0 LIFT STATION CONDITION ASSESSMENT

Midwest City's lift stations were also assessed through an RBA approach to develop a prioritized list of improvement projects. Pumping capacity at each lift station was analyzed to determine the rated pump capacity related to existing and buildout conditions within the system. Risk was determined by assigning a condition and criticality score to each site. Scoring parameters for the assessment were developed in coordination with City Staff.

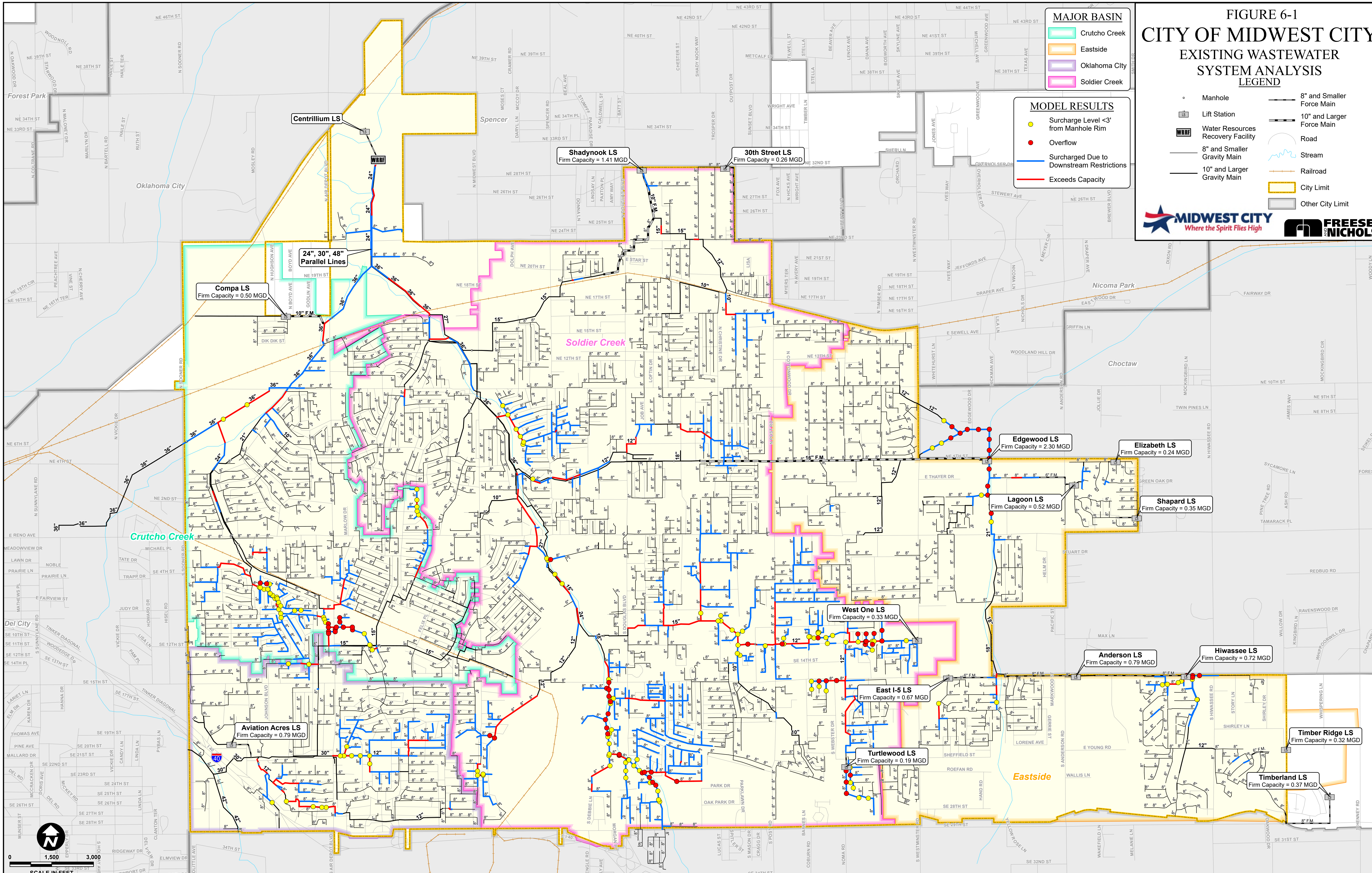

FIGURE 6-1
CITY OF MIDWEST CITY
EXISTING WASTEWATER SYSTEM ANALYSIS
LEGEND
Manhole
Lift Station
Water Resources Recovery Facility
8" and Smaller Gravity Main
10" and Larger Gravity Main
8" and Smaller Force Main
10" and Larger Force Main
Road
Stream
Railroad
City Limit
Other City Limit
MAJOR BASIN
Crutcho Creek
Eastside
Oklahoma City
Soldier Creek
MODEL RESULTS
Surcharge Level <3' from Manhole Rim
Overflow
Surcharged Due to Downstream Restrictions
Exceeds Capacity
MIDWEST CITY
Where the Spirit Flies High
FREESE AND NICHOLS
Centrillium LS
Shadynook LS
Firm Capacity = 1.41 MGD
30th Street LS
Firm Capacity = 0.26 MGD
24", 30", 48" Parallel Lines
Compa LS
Firm Capacity = 0.50 MGD
Edgewood LS
Firm Capacity = 2.30 MGD
Elizabeth LS
Firm Capacity = 0.24 MGD
Lagoon LS
Firm Capacity = 0.52 MGD
Shapard LS
Firm Capacity = 0.35 MGD
West One LS
Firm Capacity = 0.33 MGD
Anderson LS
Firm Capacity = 0.79 MGD
Hiwassee LS
Firm Capacity = 0.72 MGD
East I-5 LS
Firm Capacity = 0.67 MGD
Aviation Acres LS
Firm Capacity = 0.79 MGD
Turtlewood LS
Firm Capacity = 0.19 MGD
Timber Ridge LS
Firm Capacity = 0.32 MGD
Timberland LS
Firm Capacity = 0.37 MGD
Soldier Creek
Crutcho Creek
Eastside
Oklahoma City
Spencer
Forest Park
Nicoma Park
Choctaw
Del City
0 1,500 3,000
SCALE IN FEET

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The condition scores were developed during site visits conducted in December of 2024. The project team visited each of the 15 lift stations that were active at the time and evaluated the following components:

- Pumps and Motors
- Electrical
- Instrumentation
- Structure
- Piping and Valves
- Mechanical
- Site Conditions

The Centrillium lift station was not evaluated as part of this project because it was still under construction when the site visits were conducted. Criticality scores were assessed using established scoring criteria, which considered factors such as potential environmental impact, proximity to sensitive areas, and the population served. Each lift station was assigned a criticality rating of low, medium, high, or extreme. Rehabilitation projects were identified based on the results of the condition assessment and prioritized based on overall risk. The scores of each lift station are in the risk matrix in **Table 8-1** below.

Table 8-1: Lift Station Risk Based Assessment

		Condition				
		Very Good	Good	Fair	Poor	Very Poor
Criticality	Negligible Impact	-	-	-	-	-
	Low Impact	-	30th Street, East 1-5, Shapard	Elizabeth, Timber Ridge, West One	-	Compa
	Medium Impact	-	Timberland, Turtlewood	Anderson, Aviation Acres, Lagoon	-	-
	High Impact	-	-	Hiwassee	Shadynook	-
	Extreme Impact	-	-	-	-	Edgewood

Lift stations with medium, high, and extreme impact should be evaluated for rehabilitation or replacement. It is recommended that the Compa Lift Station be decommissioned and replaced. Hiwassee, Edgewood, and Shadynook are recommended for rehabilitation and capacity related improvements. Initial improvements to Hiwassee and Edgewood are in progress, but future projects are also needed at both locations. Several lift stations received a moderate score (fair condition and low to medium impact) that have regular maintenance items that can be addressed through a revolving maintenance program. Stations that are in good condition with a low to medium impact can stay in good condition through routine maintenance activities.

9.0 CAPITAL IMPROVEMENT PLAN

A wastewater CIP was developed for the City to address existing deficiencies in the system and to provide capacity for future loading in the wastewater collection system. Upon completion of the wastewater model scenarios that represented existing and future conditions, capital improvement projects were developed. These projects were analyzed and phased based on the timeframe during which they will be required to address capacity or maintenance needs. In total, 25 capacity related CIP projects were recommended. These projects are shown in **Figure 9-1**. To support long-term capital planning and financial decision-making, cost estimates were developed for each planning period. These estimates reflect the recommended improvements identified through system modeling, capacity analysis, and condition assessment efforts. Project costs were further broken down by fiscal year to align with the City's budgeting process and to facilitate phased implementation. The fiscal year breakdown enables clearer prioritization of near-term projects while supporting long-range financial forecasting. These cost projections were then compared to available and anticipated funding sources to assess the City's capacity to meet its wastewater infrastructure needs over time. Detailed project descriptions, drivers, and estimated costs are provided in **Appendix A**.

To maintain the integrity and performance of the wastewater collection system, it is recommended to implement an ongoing annual improvement program. This program should include lift station rehabilitation, pipeline rehabilitation, and a pipeline inspection initiative. Rehabilitation efforts will target pipelines and lift stations identified through condition assessments, focusing on assets with the greatest potential for failure or service disruption. Additionally, it is recommended that the City conduct Closed-Circuit Television (CCTV) inspections on 10% of the collection system each year to proactively identify maintenance needs to prevent costly failures. To do this, the City should invest in a second CCTV

inspection truck and hire an additional two-person crew to increase inspection capacity. These annual improvements will enhance system reliability, improve responsiveness, support preventative maintenance practices, and align with regulatory requirements and industry standards. **Table 9-1** provides a cost breakdown of the proposed annual wastewater collection system program.

Table 9-1: Annual Wastewater Collection System Improvement Program

Renewal Project	Cost Estimate
Existing Pipe Rehabilitation Program	$ 3,000,000
Lift Station Improvements	$ 350,000
Pipe Inspection Program*	$ 150,000
Total	$ 3,500,000

*Assumes 2-man crew and maintenance of CCTV truck

The total costs for all capacity and renewal projects are shown on **Table 9-2**.

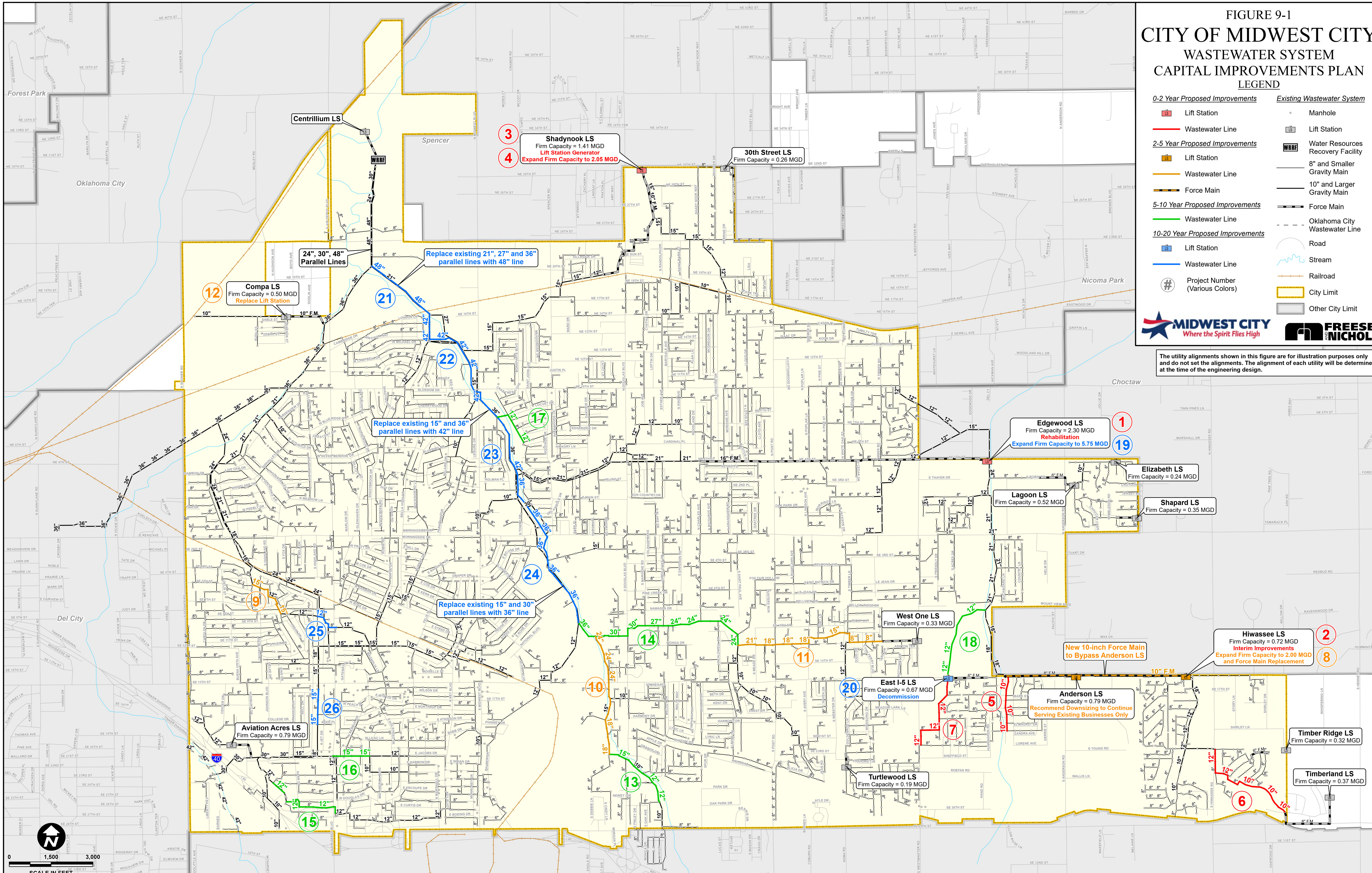
FIGURE 9-1
CITY OF MIDWEST CITY
WASTEWATER SYSTEM
CAPITAL IMPROVEMENTS PLAN
LEGEND
0-2 Year Proposed Improvements
Lift Station
Wastewater Line
2-5 Year Proposed Improvements
Lift Station
Wastewater Line
Force Main
5-10 Year Proposed Improvements
Wastewater Line
10-20 Year Proposed Improvements
Lift Station
Wastewater Line
Project Number (Various Colors)
Existing Wastewater System
Manhole
Lift Station
Water Resources Recovery Facility
8" and Smaller Gravity Main
10" and Larger Gravity Main
Force Main
Oklahoma City Wastewater Line
Road
Stream
Railroad
City Limit
Other City Limit
MIDWEST CITY
Where the Spirit Flies High
FREESE AND NICHOLS
The utility alignments shown in this figure are for illustration purposes only and do not set the alignments. The alignment of each utility will be determined at the time of the engineering design.
Centrillium LS
Shadynook LS
Firm Capacity = 1.41 MGD
Lift Station Generator
Expand Firm Capacity to 2.05 MGD
30th Street LS
Firm Capacity = 0.26 MGD
24", 30", 48" Parallel Lines
Replace existing 21", 27" and 36" parallel lines with 48" line
Compa LS
Firm Capacity = 0.50 MGD
Replace Lift Station
Replace existing 15" and 36" parallel lines with 42" line
Edgewood LS
Firm Capacity = 2.30 MGD
Rehabilitation
Expand Firm Capacity to 5.75 MGD
Elizabeth LS
Firm Capacity = 0.24 MGD
Lagoon LS
Firm Capacity = 0.52 MGD
Shapard LS
Firm Capacity = 0.35 MGD
Replace existing 15" and 30" parallel lines with 36" line
West One LS
Firm Capacity = 0.33 MGD
New 10-inch Force Main to Bypass Anderson LS
Hiwassee LS
Firm Capacity = 0.72 MGD
Interim Improvements
Expand Firm Capacity to 2.00 MGD and Force Main Replacement
East I-5 LS
Firm Capacity = 0.67 MGD
Decommission
Anderson LS
Firm Capacity = 0.79 MGD
Recommend Downsizing to Continue Serving Existing Businesses Only
Aviation Acres LS
Firm Capacity = 0.79 MGD
Timber Ridge LS
Firm Capacity = 0.32 MGD
Turtlewood LS
Firm Capacity = 0.19 MGD
Timberland LS
Firm Capacity = 0.37 MGD
Forest Park
Spencer
Oklahoma City
Nicoma Park
Choctaw
Del City
SCALE IN FEET
0
1,500
3,000

Table 9-2: Capital Improvement Cost Summary

Project Number	Capacity CIP Project Name	Funding Status	Cost
	0-2 Year CIP		
1	Rehabilitation of Edgewood Lift Station	Construction Funded	$ 1,681,900
2	Hiwassee Lift Station Interim Improvements	Design Funded	$ 2,500,000
3	Shadynook Lift Station Generator	Grant Funded	OEM Grant - No Direct City Cost
4	Expansion and Rehabilitation of Shadynook Lift Station to 2.05 MGD	Design Funded	$ 1,500,000
5	10-inch Sewer Line along Dorchester Road	Design Funded	$ 1,121,300
6	10- and 12-inch Sewer Lines along Timber Ridge Boulevard	Design Funded	$ 2,685,100
7	East 1-5 12-inch Sewer Line	Design Funded	$ 2,027,300
R1	Annual Wastewater Collection System Improvement Program		$ 7,000,000
		0-2 Year Total	**$ 18,515,600**
	2-5 Year CIP		
8	New 2.0 MGD Hiwassee Lift Station; 10-inch Force Main		$ 7,101,300
9	15-inch Sewer Line near Bomber Rail Trail		$ 1,394,900
10	18-, 21-, and 24-inch Sewer Lines		$ 6,448,000
11	8-, 15-, 18-, and 21-inch Sewer Lines		$ 5,262,400
12	Replace Compa Lift Station		$ 350,000
R2	Annual Wastewater Collection System Improvement Program		$ 10,150,000
		2-5 Year Total	**$ 30,706,600**
	5-10 Year CIP		
13	12- and 15-inch Sewer Lines		$ 2,036,200
14	24-, 27-, 30-, and 36-inch Sewer Lines		$ 7,466,100
15	12-inch Sewer Line along West Curtis Drive		$ 1,995,900
16	15- and 18-inch Sewer Lines along West Jacobs Drive		$ 1,269,300
17	12-inch Sewer Line along Soldier Creek Trail		$ 1,285,700
18	12-inch Sewer Line near Southeast 15th Street		$ 2,308,300
R3	Annual Wastewater Collection System Improvement Program		$ 17,500,000
		5-10 Year Total	**$ 33,861,500**
	10-20 Year CIP		
19	New 5.75 MGD Edgewood Lift Station		$ 12,894,400
20	Decommission East 1-5 Lift Station		$ 373,800
21	48-inch Sewer Line		$ 7,451,100
22	Soldier Creek 42-inch Sewer Line Part 1		$ 10,426,200
23	Soldier Creek 42-inch Sewer Line Part 2		$ 7,896,600
24	36-inch Sewer Line along Soldier Creek		$ 12,480,300
25	12-inch Sewer Line near Eddie Drive		$ 985,300
26	15-inch Sewer Line along Sandra Drive		$ 1,013,700
R4	Annual Wastewater Collection System Improvement Program		$ 35,000,000
		10-20 Year Total	**$ 88,521,400**
		Capacity CIP Total	**$ 171,605,100**

MUNICIPAL AUTHORITY AGENDA

City Hall - Midwest City Council Chambers, 100 N. Midwest Boulevard

August 12, 2025 – 5:00 PM

Presiding members: Chairman Matthew Dukes		City Staff:
Trustee Susan Eads	Trustee Marc Thompson	General Manager Tim Lyon
Trustee Pat Byrne	Trustee Sara Bana	Secretary Sara Hancock
Trustee Rita Maxwell	Trustee Rick Favors	Authority Attorney Don Maisch

A. CALL TO ORDER.

B.. NEW BUSINESS/PUBLIC DISCUSSION. In accordance with State Statue Title 25 Section 311. Public bodies - Notice. A-9, the purpose of the "New Business" section is for action to be taken at any Council/Authority/Commission meeting for any matter not known about or which could not have been reasonably foreseen 24 hours prior to the public meeting. The purpose of the "Public Discussion" section of the agenda is for members of the public to speak to the Authority on any subject not scheduled on the regular agenda. The Authority shall make no decision or take any action, except to direct the City Manager to take action, or to schedule the matter for discussion at a later date. Pursuant to the Oklahoma Open Meeting Act, the Authority will not engage in any discussion on the matter until that matter has been placed on an agenda for discussion. THOSE ADDRESSING THE AUTHORITY ARE REQUESTED TO STATE THEIR NAME AND ADDRESS PRIOR TO SPEAKING TO THE AUTHORITY.

C. EXECUTIVE SESSION.

1. Discussion, consideration, and possible action of 1) entering into executive session, as allowed under 25 O.S. § 307(B)(3), to confer on matters pertaining to purchase or appraisal of real property, and 2) in open session, authorizing the general manager/administrator to take action as appropriate based on the discussion in executive session concerning project “Malcolm”. (Economic Development - R. Coleman)

D. ADJOURNMENT.