

City of Broken Arrow

Drainage Advisory Committee



PROJECT REPORT

DATE:	4/25/23
NAME	Patrick Wilson, PE, CFM, Stormwater Division Manager, City of Broken Arrow
ADDRESS / LOCATION	E Dallas St. between 2 nd St and Haskell Park
WATERSHED	Haikey Creek
ESTIMATE	\$155,000.00
CASE NO.	24-010

DESCRIPTION

The storm sewer along the south side of Dallas between 2nd St and 4th St is corrugated metal pipe (CMP) and is estimated have been installed between 1970 and 1990. Residents in the area have contacted the City about potential issues with the storm sewer in relation to holes forming around their driveways.

The Stormwater Division Manager inspected the site in February 2023 while it was raining. The holes were noted to be about in the same location as the storm sewer. The CMP was visible in one of the holes. Moving water was also noted in the hole. After the site visit, Streets & Stormwater sent a camera through the line. The camera showed some separation at the joints and areas where the bottom has rusted out.

The holes in the pipe could be allowing water to be flowing underneath and around the pipe. This could allow for the soil to be transported and cause voids in the area between the pipe and the surface. This item was presented to the DAC in March 2023 Case 23-001 for design.

Further investigation after the design in April 2024 has revealed continued infrastructure deterioration.

The City is requesting \$155,000.00 of unnamed funds to alleviate a funding shortfall and to cover private property improvements. The City has already secured \$256,122.00 from other sources for this project.

BENEFIT

Replace City infrastructure that has deteriorated and prevent further issues surrounding the pipe.

RECOMMENDATION

Replace the storm sewer from line from Haskell Park to the outfall at the tributary to East Branch Haikey Creek.

COMPLETED BY: Patrick P. Wilson

DATE: 4/25/24

City of Broken Arrow

Drainage Advisory Committee



APPLICATION

DATE:	April 25, 2024
OWNER NAME:	City of Broken Arrow
PHONE NUMBER:	918-259-7000
EMAIL ADDRESS:	
OWNER MAILING ADDRESS:	PO Box 610 Broken Arrow, OK 74013
ADDRESS OF PROPERTY WITH DRAINAGE PROBLEM:	Dallas St from 2 nd St to 4 th St
LOCATION OF DRAINAGE ISSUE ON PROPERTY:	Dallas St from 2 nd St to 4 th St

DESCRIPTION OF PROBLEM: (*PHOTOS SHOULD ACCOMPANY APPLICATION)

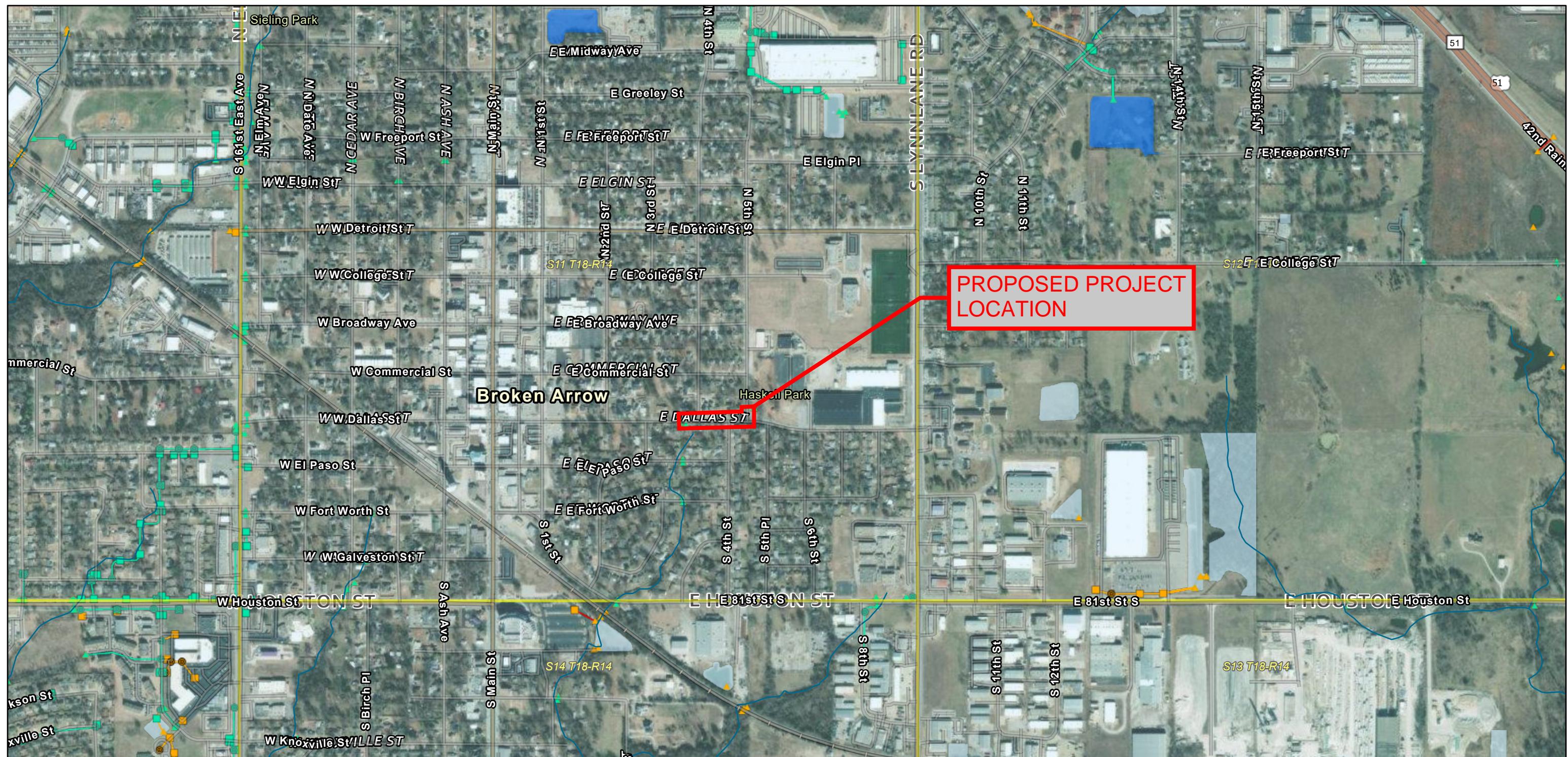
Holes are forming around residential driveways on the south side of Dallas St in between 2nd St. and 4th St. Residents have contacted the City to investigate. Driveways over the storm sewer are beginning to collapse.

Investigation after plans were designed revealed that the existing public storm sewer infrastructure has deteriorated more.

Signature:

RETURN TO STORMWATER DIVISION MANAGER'S OFFICE, PO BOX 610 Broken Arrow, OK 74013

Aerial



3/15/2023, 11:41:30 AM

1:11,285

Sections (PLSS)

YES

Stormwater Structures (Private)

Stormwater Structures

Blue Line Streams (ODOT)

Stormwater Lines

Inlet

Address Points

Broken Arrow

Manhole

Dentention Ponds

State-Federal

Other

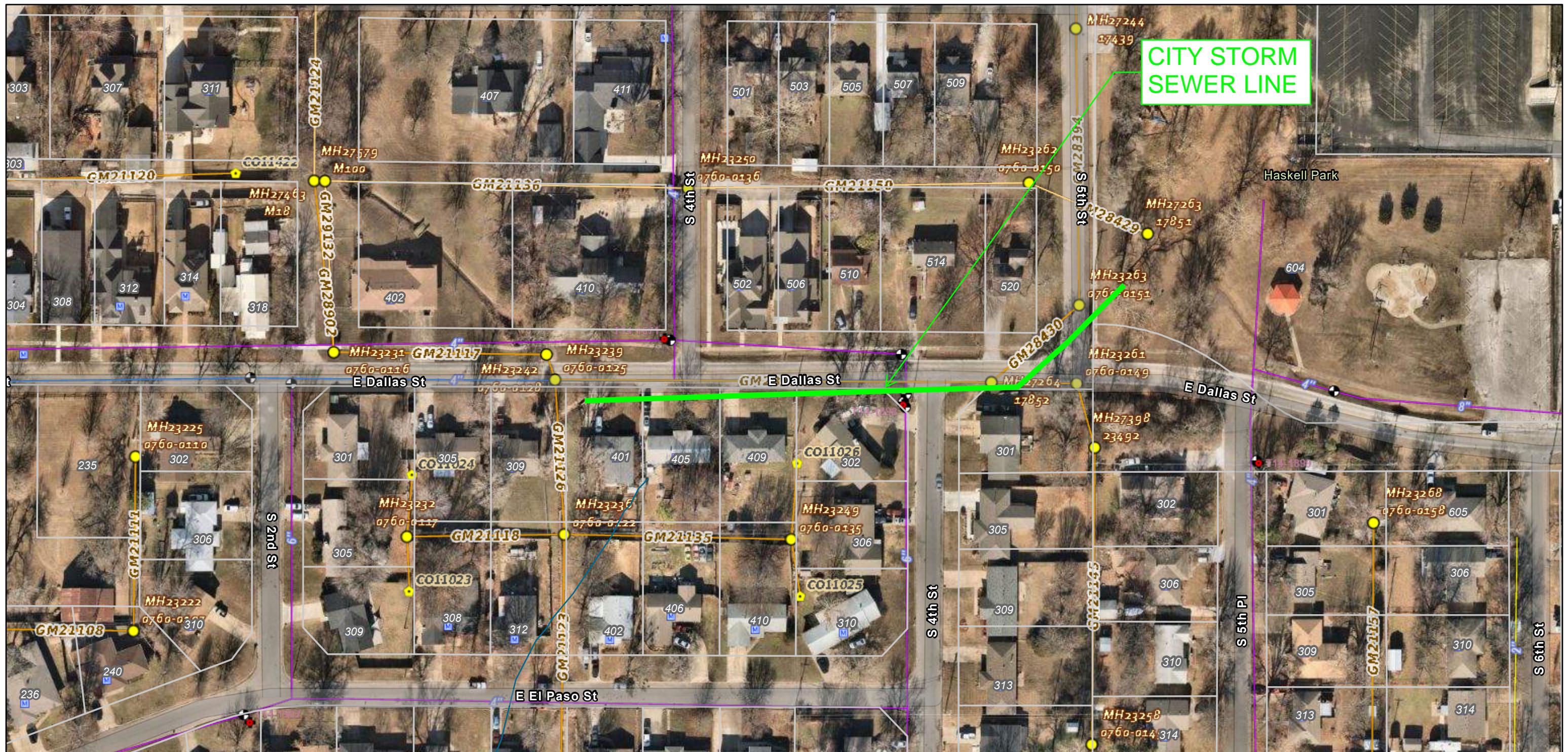
NO

Private

City Limits 2021

Copyright nearmap 2015, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, City of Tulsa, US Census Bureau, INCOG, & unknown, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

E Dallast St



3/14/2023, 4:22:22 PM

1:1.411

Parcels

GravityMain

CleanOut

— Unknown

Sections (PI SS)

Polyvinyl Chloride

Inspection

System Valves

Blue Line Stream

— Vitr

Maths

System Valves

Address Points

Manhole

Cast Iron

Gate

No Inspection

Polyvinyl Chloride Hydrants

Hydrants

Copyright nearmap 2015, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, City of Tulsa, US Census Bureau, INCOG, & unknown, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, City of Broken Arrow Geospatial Services Division

ArcGIS Web AppBuilder

Copyright nearmap 2015 | Maxar | City of Broken Arrow Geospatial Services Division | City of Broken Arrow | Tulsa County Assessor | City of Tulsa, US Census Bureau, INCOG, & unknown | Esri Community Maps Contributors, City of Tulsa, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, ArcGIS Web AppBuilder









10.

150

AC 7 PM



ME 1 FM











