

GIS & The City of Midwest City

Current Technology & Solutions



Find Your Place

Overview

- ❖ Midwest City as an example of a municipal GIS
- ❖ GIS Resources and Directives
- ❖ Intergovernmental Interaction
- ❖ GIS Application Scope and Strategies
- ❖ GIS Application Examples
- ❖ Future



Midwest City Statistics

- ❖ 24 square miles in Oklahoma County
- ❖ 57,305 residents in 26,000 households
- ❖ City staffing of around 470 FTE plus 130 part time and seasonal



Midwest City GIS Resources

❖ GIS Staffing

- ❖ GIS Manager
- ❖ GIS Analyst - 2
- ❖ GIS Technician - 1

❖ GIS Software

- ❖ ESRI Small Government ELA
 - ❖ 250 Licenses of ArcGIS Pro Basic, Standard, & Advanced
 - ❖ 250 Licenses of Spatial Analyst, Network Analyst, etc.
 - ❖ ArcSDE on SQL Server
 - ❖ ArcGIS Server
- ❖ Azteca Cityworks AMS

- ❖ **GIS Operating Budget** - \$217,000 to cover annual software maintenance, data, & hardware



Midwest City GIS Directives

- ❖ Serve the needs of varied internal and external user groups
- ❖ Extend access and utility of GIS to more users
- ❖ Make GIS data available to the public
- ❖ Work within limits of funding, resources, and system growth



Intergovernmental Interactions

- ❖ **Midwest City** - mostly self sufficient for data

- ❖ **Municipal**

 - ❖ Data exchange as needed

- ❖ **County**

 - ❖ Address data sharing

 - ❖ Orthophotos

 - ❖ Data exchange as needed

- ❖ **State/Regional**

 - ❖ ACOG membership – Street segment and address data sharing for e911



Midwest City GIS Application Scope

- ❖ ArcGIS Desktop (all license levels) centralized administration with multiuser editing on SDE
- ❖ ArcGIS Pro (all license levels)
- ❖ Third-party GIS applications
 - ❖ X Tools Pro
 - ❖ CarryMap
- ❖ Web-based maps and tools
 - ❖ ArcGIS Online
 - ❖ IT Nexus MapViewer
- ❖ Public GIS data downloads available on City's official webpage



Midwest City GIS Application Examples

- ❖ EOC/Dispatch
- ❖ Community Development
- ❖ Planning
- ❖ Engineering
- ❖ Public Works
- ❖ Public Safety (Fire & Police)
- ❖ MapViewer & ArcGIS Online



Dispatch/Emergency Operations

Geo Data Maintenance

File Help

Filter

Low Direction Street Name RENO Street Type City MI ESN

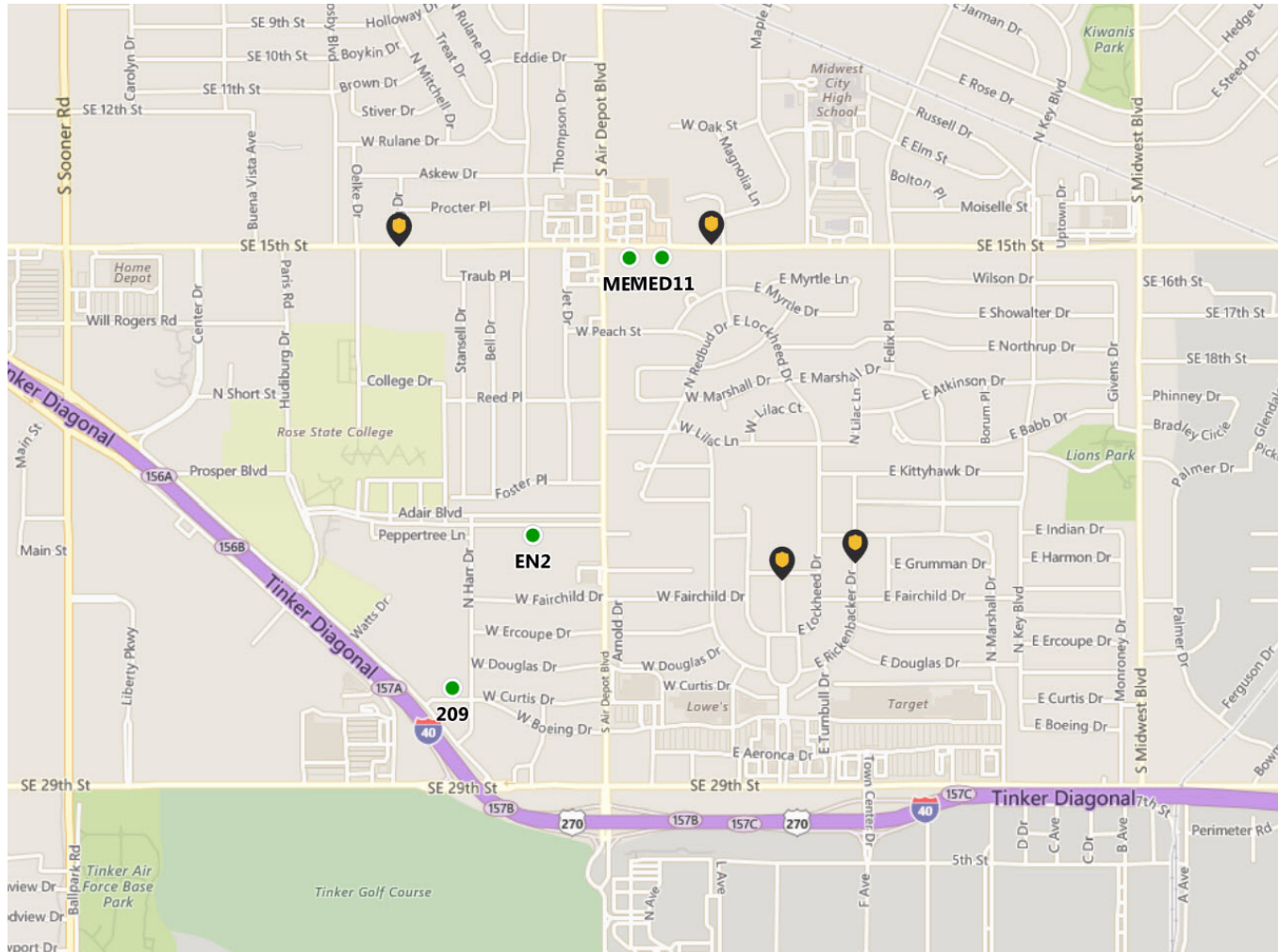
Disp Zone PD District Wrek District Fire District EMS District

Record	Low	High	OE	Dir	Street Name	Street Type	Cross Street1	Cross Street2	City	State	Zip	ESN	Grid No	Map Page
21703	5536	5598	E	E	RENO	AVE	N SOONER RD	MEADOWOOD ...	Midwest City	OK	73110	30	41	
21704	5600	5610	E	E	RENO	AVE	N SOONER RD	MEADOWOOD ...	Midwest City	OK	73110	30	41	
21705	5601	5611	O	E	RENO	AVE	N SOONER RD	MEADOWOOD ...	Midwest City	OK	73110	30	31	
21706	5700	5798	E	E	RENO	AVE	N SOONER RD	MEADOWOOD ...	Midwest City	OK	73110	30	41	
21707	5701	5799	O	E	RENO	AVE	N SOONER RD	MEADOWOOD ...	Midwest City	OK	73110	30	31	
21708	5800	5830	E	E	RENO	AVE	N SOONER RD	MEADOWOOD ...	Midwest City	OK	73110	30	41	
21709	5801	5831	O	E	RENO	AVE	N SOONER RD	MEADOWOOD ...	Midwest City	OK	73110	30	31	
21710	5900	5920	E	E	RENO	AVE	MEADOWOOD DR	WOODCREST DR	Midwest City	OK	73110	30	41	
21711	5901	5921	O	E	RENO	AVE	MEADOWOOD ...	WOODCREST DR	Midwest City	OK	73110	30	31	
21712	6000	6018	E	E	RENO	AVE	MEADOWOOD ...	WOODCREST DR	Midwest City	OK	73110	30	41	
21713	6001	6019	O	E	RENO	AVE	MEADOWOOD ...	WOODCREST DR	Midwest City	OK	73110	30	31	
21714	6100	6118	E	E	RENO	AVE	MEADOWOOD ...	WOODCREST DR	Midwest City	OK	73110	30	41	
21715	6101	6119	O	E	RENO	AVE	MEADOWOOD ...	WOODCREST DR	Midwest City	OK	73110	30	31	
21716	6120	6138	E	E	RENO	AVE	WOODCREST DR	CHAR LN	Midwest City	OK	73110	30	41	
21717	6121	6139	O	E	RENO	AVE	WOODCREST DR	CHAR LN	Midwest City	OK	73110	30	31	
21718	6200	6214	E	E	RENO	AVE	WOODCREST DR	CHAR LN	Midwest City	OK	73110	30	41	
21719	6201	6299	O	E	RENO	AVE	WOODCREST DR	CHAR LN	Midwest City	OK	73110	30	31	
21720	6300	6312	E	E	RENO	AVE	CHAR LN	HIGHLAND RD	Midwest City	OK	73110	30	41	
21721	6301	6399	O	E	RENO	AVE	CHAR LN	HIGHLAND RD	Midwest City	OK	73110	30	31	
21722	6400	6438	E	E	RENO	AVE	HIGHLAND RD	N MEADOW LN	Midwest City	OK	73110	30	41	
21723	6401	6453	O	E	RENO	AVE	HIGHLAND RD	N MEADOW LN	Midwest City	OK	73110	30	31	
21724	6500	6524	E	E	RENO	AVE	N MEADOW LN	FOX DR	Midwest City	OK	73110	30	41	
21725	6501	6549	O	E	RENO	AVE	N MEADOW LN	FOX DR	Midwest City	OK	73110	30	31	
21726	6600	6624	E	E	RENO	AVE	FOX DR	BELL DR	Midwest City	OK	73110	30	41	
21727	6601	6699	O	E	RENO	AVE	FOX DR	BELL DR	Midwest City	OK	73110	30	31	
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21729	6701	6799	O	E	RENO	AVE	FOX DR	BELL DR	Midwest City	OK	73110	30	31	
21730	6800	6898	E	E	RENO	AVE	BELL DR	HIGHLAND AVE	Midwest City	OK	73110	30	41	
21731	6801	6899	O	E	RENO	AVE	BELL DR	HIGHLAND AVE	Midwest City	OK	73110	30	31	
21732	6900	6938	E	E	RENO	AVE	HIGHLAND AVE	N AIR DEPOT B...	Midwest City	OK	73110	30	41	
21733	6901	6929	O	E	RENO	AVE	HIGHLAND AVE	N AIR DEPOT B...	Midwest City	OK	73110	30	31	
21734	7000	7038	E	E	RENO	AVE	N AIR DEPOT B...	MARLOW DR	Midwest City	OK	73110	30	42	

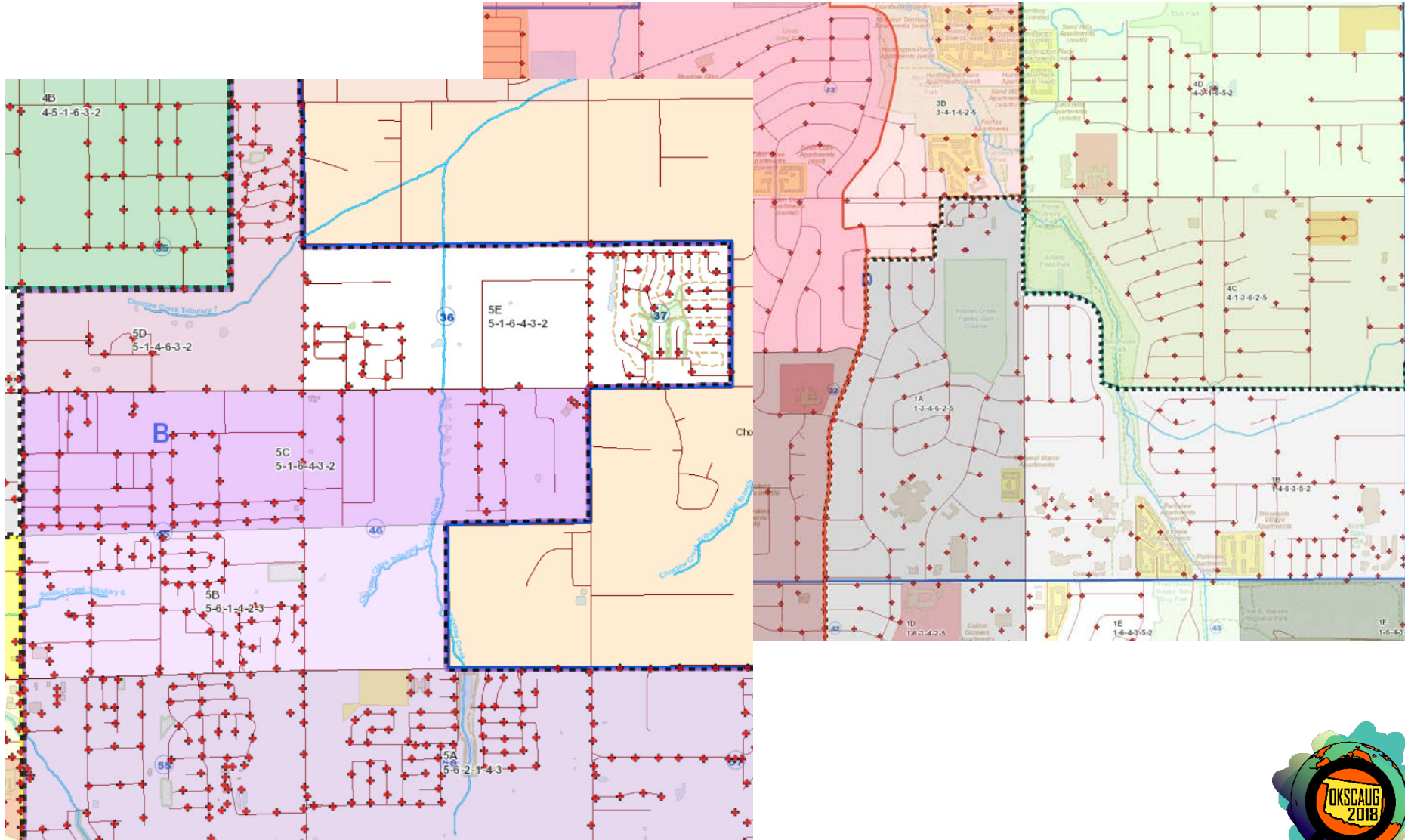
Save Add Modify Delete Geo Data Valid Update Address Master Clear Filter Refresh



Dispatch/Emergency Operations

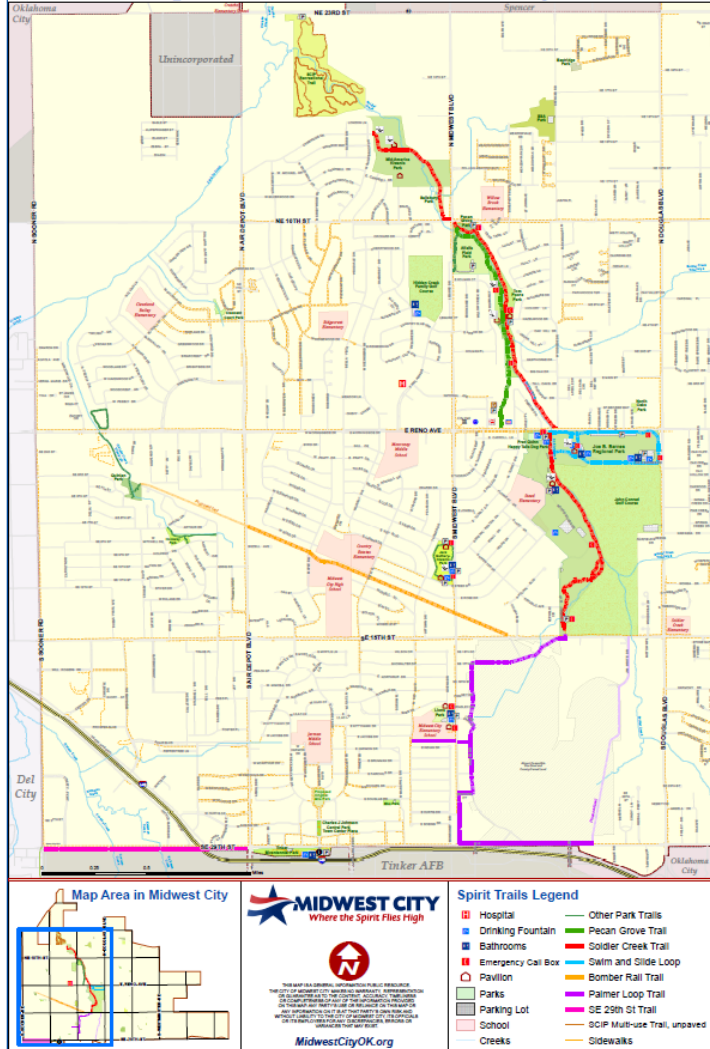


Dispatch/Emergency Operations

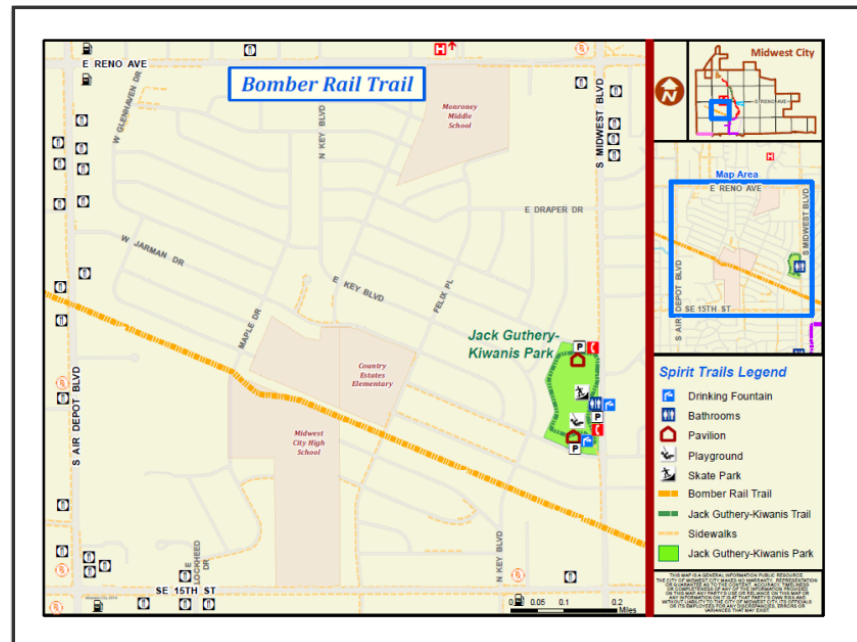


Community Development

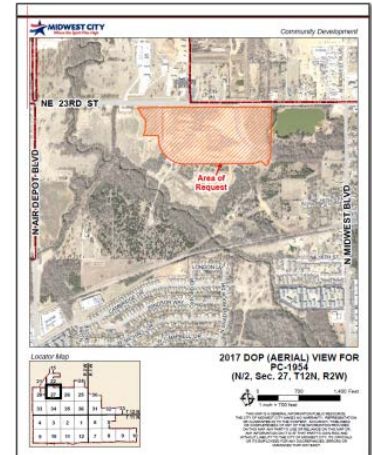
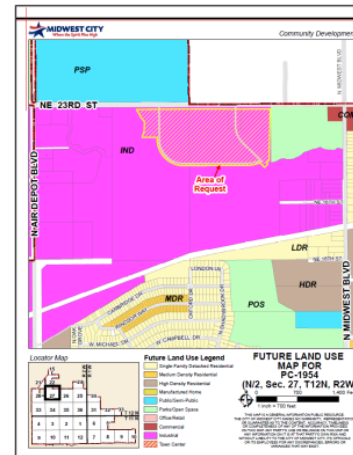
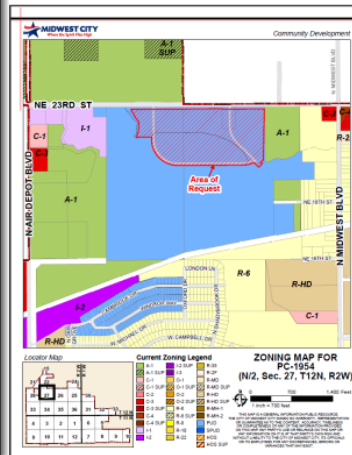
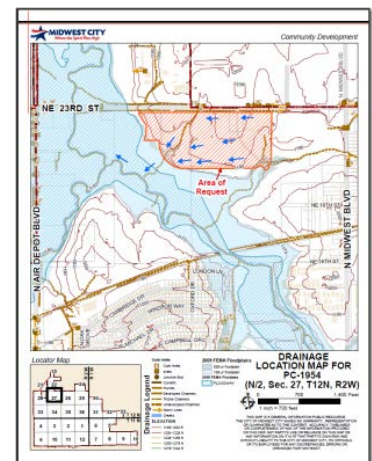
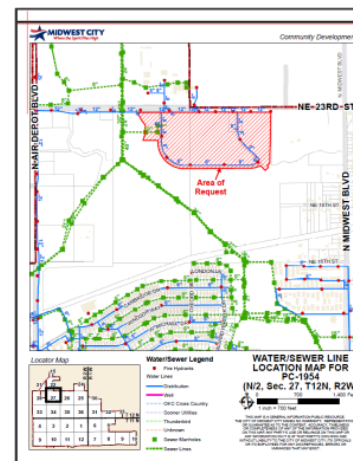
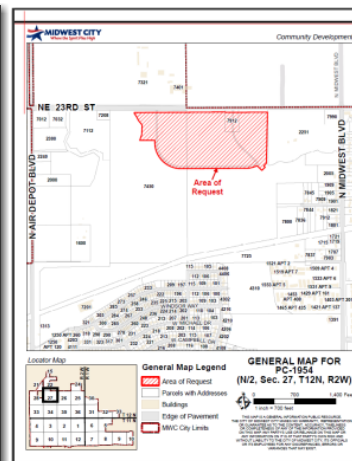
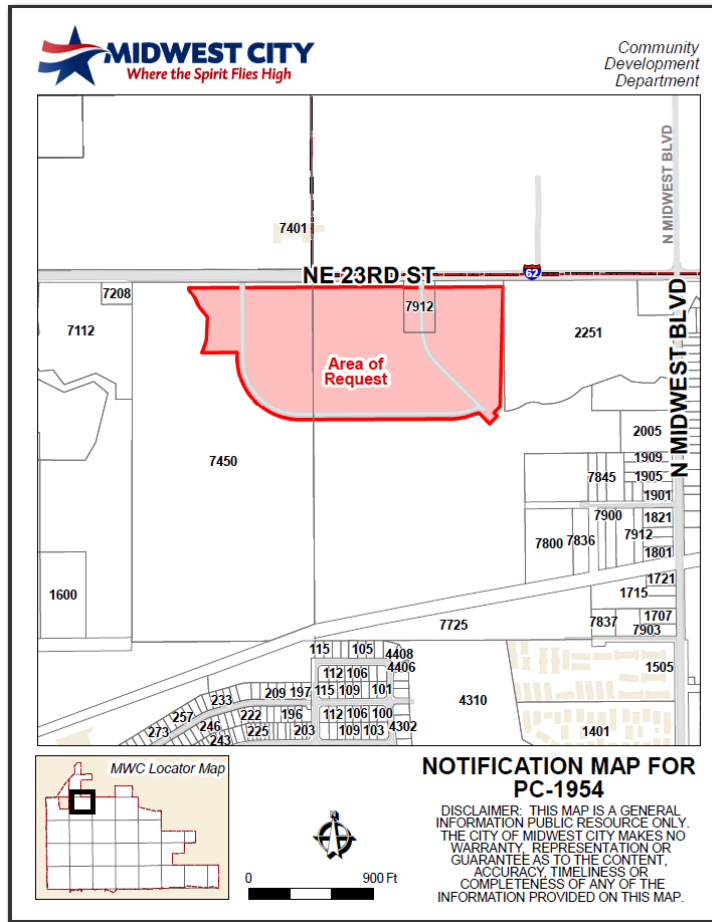
Spirit Trails in Midwest City



- ❖ Trail Maps created for use as signs at trailheads
- ❖ Funded by grant from Oklahoma City Community Foundation



Planning Commission, Board of Adjustment & City Council Meeting Maps

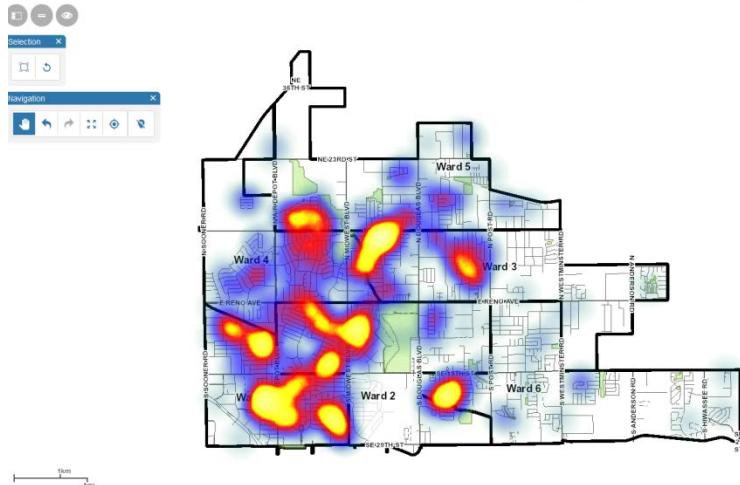
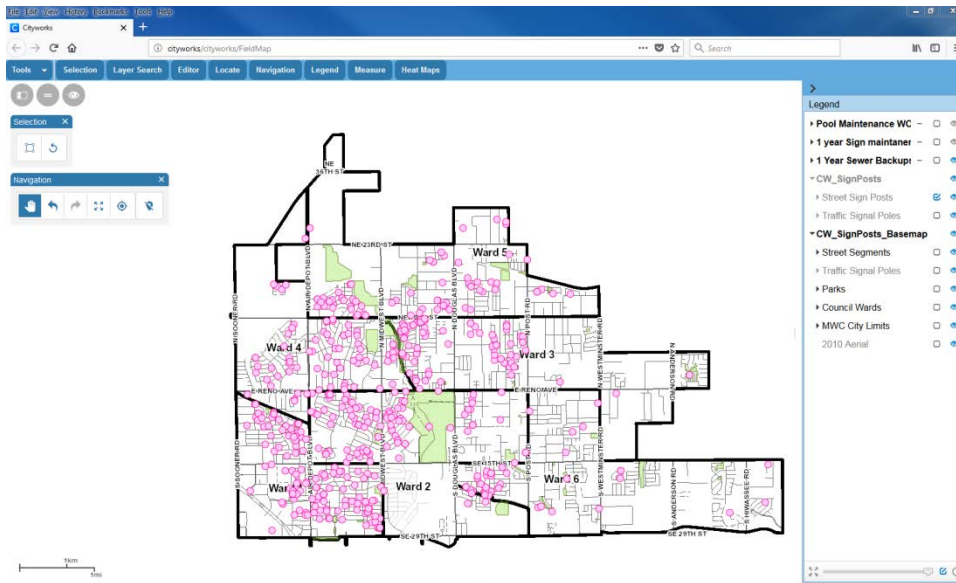


Engineering

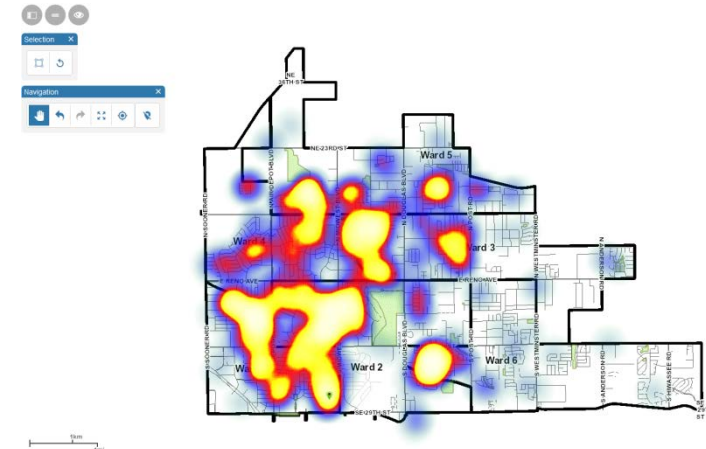


Public Works

Cityworks AMS, and GIS data (addresses)

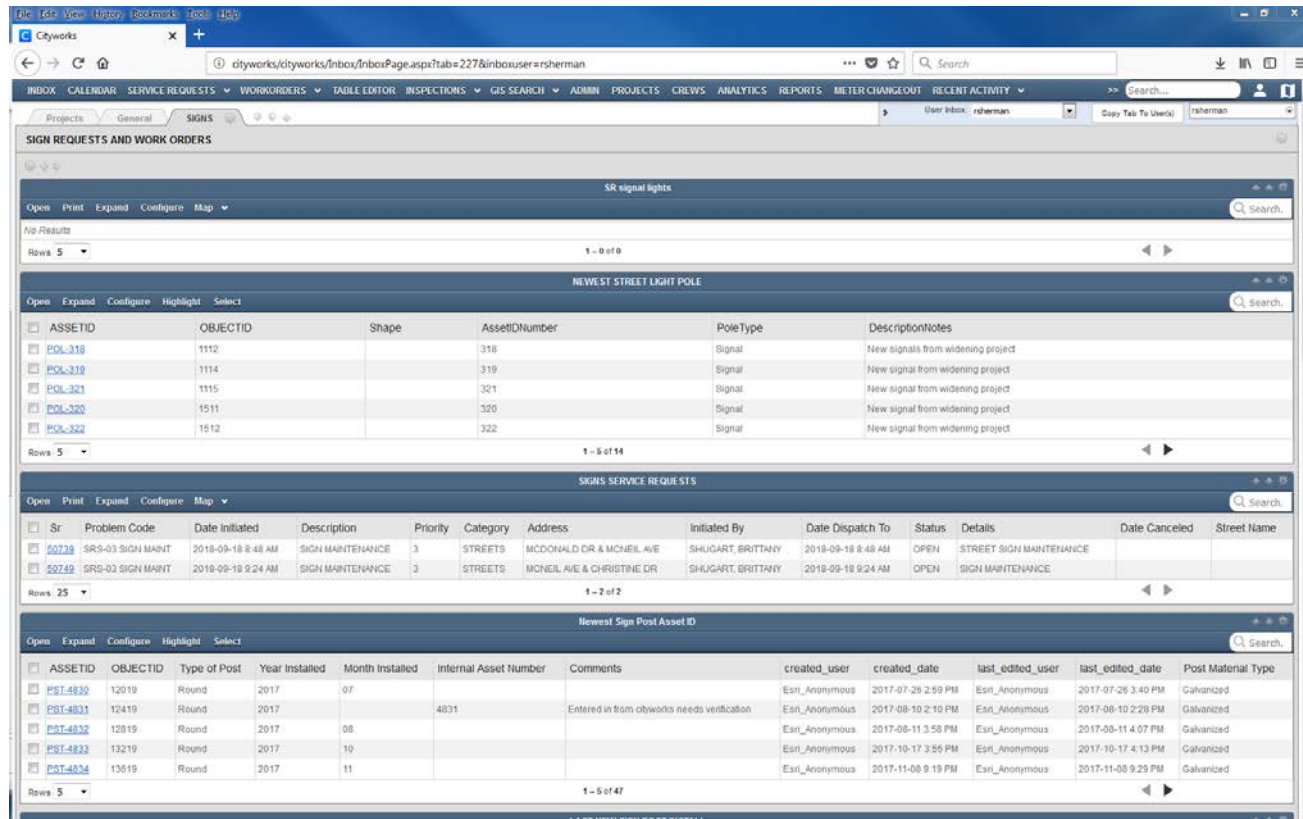


- ❖ Utilizing Saved searches for service requests and work orders to find problem areas for utilities
- ❖ Yearly there are around 528 calls for sewer backups, as well as around 130 sign maintenance calls yearly
- ❖ Using heat maps to discover problem areas and figuring out solutions for said areas
- ❖ Finding solutions to reduce mistakes and redundancy



Mobile Utilization In the field

- ❖ Progression into mobile use of Cityworks to process work orders & to streamline the work
- ❖ This would allow for better data recording and updating for city assets such as signs
- ❖ This will ease the strain of mistakes of repeated data entry



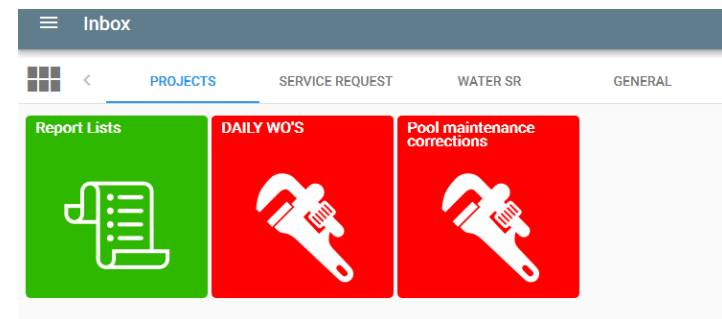
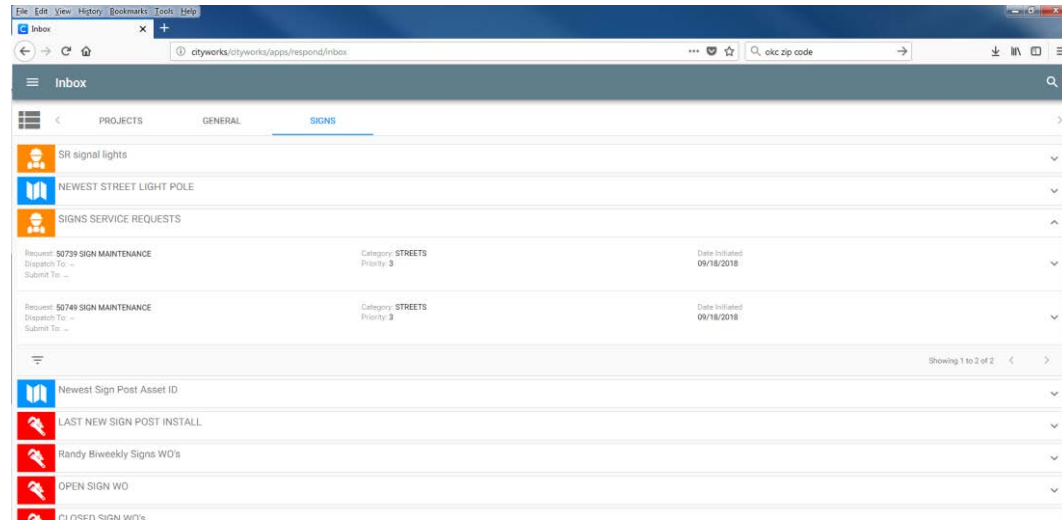
The screenshot displays the Cityworks web application interface. The top navigation bar includes links for INDEX, CALENDAR, SERVICE REQUESTS, WORKORDERS, TABLE EDITOR, INSPECTIONS, GIS SEARCH, ADMIN, PROJECTS, CREWS, ANALYTICS, REPORTS, METER CHANGEOUT, and RECENT ACTIVITY. The main content area is divided into several sections:

- SIGN REQUESTS AND WORK ORDERS**: A section with a search bar and a table of sign requests.
- SR signal lights**: A table with columns for ASSETID, OBJECTID, Shape, AssetIDNumber, PoleType, and Description/Notes. It shows a list of signal lights with their respective details.
- NEWEST STREET LIGHT POLE**: A table with columns for ASSETID, OBJECTID, Shape, AssetIDNumber, PoleType, and Description/Notes. It shows a list of street light poles with their respective details.
- SIGNS SERVICE REQUESTS**: A table with columns for Sr, Problem Code, Date Initiated, Description, Priority, Category, Address, Initiated By, Date Dispatch To, Status, Details, Date Canceled, and Street Name. It shows a list of sign service requests with their respective details.
- Newest Sign Post Asset ID**: A table with columns for ASSETID, OBJECTID, Type of Post, Year Installed, Month Installed, Internal Asset Number, Comments, created_user, created_date, last_edited_user, last_edited_date, and Post Material Type. It shows a list of sign post assets with their respective details.



Mobile Utilization In the field

- ❖ Respond is an addition tool to help with creating work orders in the field
- ❖ The Respond App has a cleaner user interface and responds better in a mobile environment
- ❖ Respond is best used for reporting not instances of editing data in field
- ❖ Respond gives you the option of a drop down list or thumb nail view →---→---→---→---→---→



Field work and the results

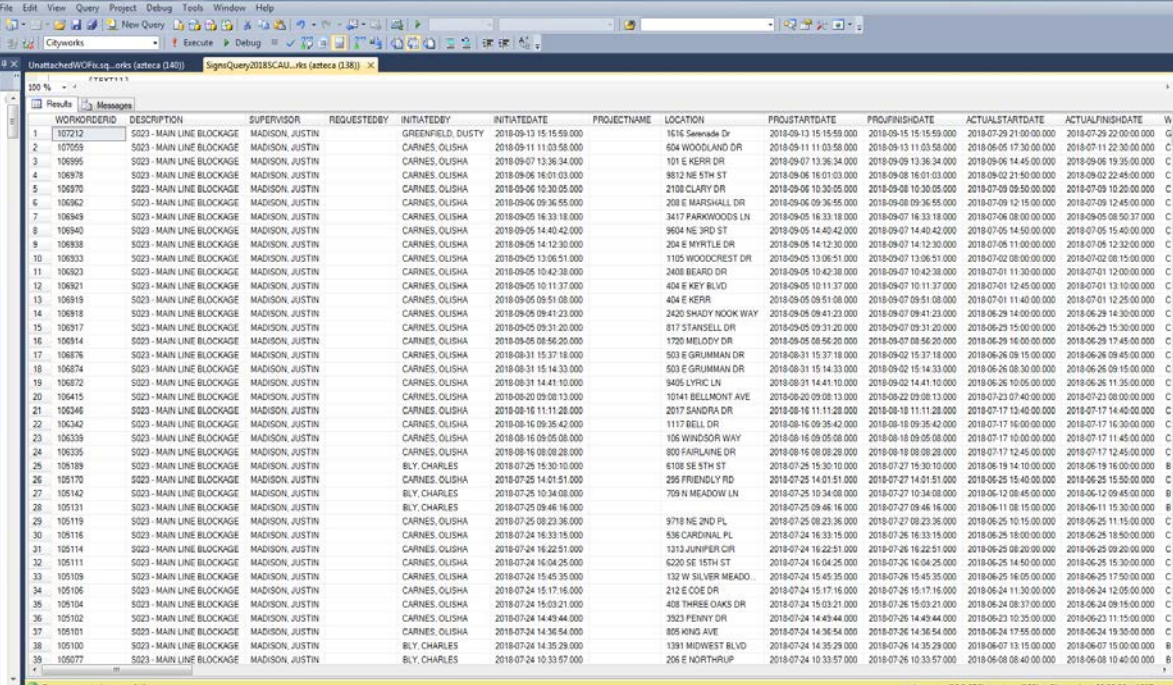


ID	DESCRIPTION	SUPERVISOR	REQUESTED BY	INITIATED BY	INITIATED DATE	PROJECT NAME	LOCATION	PROJ START DATE	PROJ FINISH DATE	ACTUAL START DATE
1	10077 TC004 SIGN MAINTENANCE	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-02-07 14:54:10.443			NULL	NULL	2013-11-09 09:4
2	11227 TC010 SIGNAL MAINTENANCE	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-03-01 10:24:30.170		NE 23rd & Midland Blvd	NULL	NULL	2013-02-05 09:1
3	11231 TC012 SIGNAL MAINTENANCE	WILLIAMS, DOUGLAS	KUETTEL, MARY	JACKSON, KIMMIE	2013-03-01 10:34:08.433		Intersection of Reno & Air Depot	NULL	NULL	2013-01-31 10:2
4	11232 TC010 SIGNAL MAINTENANCE	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-03-01 10:36:28.223		Midland Blvd NE 13th St to Reno Ave	NULL	NULL	2013-01-29 08:2
5	11234 TC010 SIGNAL MAINTENANCE	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-03-01 10:43:16.573		Se 28th & Flat	NULL	NULL	2013-01-21 09:0
6	11236 TC012 SIGNAL MAINTENANCE	WILLIAMS, DOUGLAS	KUETTEL, MARY	JACKSON, KIMMIE	2013-03-01 10:52:56.337		SE 28th & Douglas Blvd	NULL	NULL	2013-02-11 09:2
7	12376 TC008 SIGN REPLACEMENT (REFLECTIVITY PROBLEM)	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-03-27 12:01:55.280			NULL	NULL	2013-12-12 14:0
8	12430 TC002 SET PORTABLE STOP SIGN	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-03-28 10:19:03.660			NULL	NULL	2013-12-13 14:0
9	12439 TC002 SET PORTABLE STOP SIGN	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-03-28 10:59:33.877		CITYWIDE	NULL	NULL	2013-12-13 15:0
10	12731 TC002 SET PORTABLE STOP SIGN	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-04-03 10:29:13.503			NULL	NULL	2013-12-25 11:4
11	12763 TC010 SIGNAL LIGHT BULB	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-04-03 15:46:37.907			NULL	NULL	2013-12-26 11:0
12	13859 TC002 SET PORTABLE STOP SIGN	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-05-08 13:40:31.880			NULL	NULL	2013-01-25 09:2
13	14164 TC012 SIGNAL MAINTENANCE	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-05-16 16:12:07.940			NULL	NULL	2013-01-25 09:2
14	14416 TC006 SIGN REPLACEMENT	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-05-16 16:44:48.413			NULL	NULL	2013-02-01 06:0
15	14677 TC010 SIGNAL LIGHT BULB	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-04 08:44:48.413			NULL	NULL	2013-02-05 16:0
16	14893 TC008 SIGN NEW INSTALLATION	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-04 09:49:59.163			NULL	NULL	2013-02-05 14:0
17	14725 TC008 SIGN REPLACEMENT (REFLECTIVITY PROBLEM)	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-05 09:31:54.297			NULL	NULL	2013-02-07 12:0
18	14726 TC014 SIGNAL PED	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-05 09:36:31.730			NULL	NULL	2013-02-07 13:0
19	14806 TC002 SET PORTABLE STOP SIGN	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-06 15:50:14.803			NULL	NULL	2013-02-11 07:0
20	14807 TC010 SIGNAL LIGHT BULB	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-06 15:56:13.320			NULL	NULL	2013-02-11 09:0
21	14809 TC006 SIGN REPLACEMENT	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-06 16:01:24.773			NULL	NULL	2013-02-11 12:0
22	14810 TC008 SIGN REPLACEMENT	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-06 16:08:54.030			NULL	NULL	2013-02-11 14:0
23	14838 TC010 SIGNAL MAINTENANCE	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-07 09:49:04.687			NULL	NULL	2013-02-07 07:0
24	14853 TC010 SIGNAL LIGHT BULB	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-07 11:00:31.423			NULL	NULL	2013-02-07 13:0
25	14854 TC010 SIGNAL LIGHT BULB	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-07 11:04:06.510			NULL	NULL	2013-02-13 08:0
26	14856 TC004 SIGN MAINTENANCE	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-07 11:05:02.807			NULL	NULL	2013-02-13 10:0
27	14858 TC008 SIGN REPLACEMENT (REFLECTIVITY PROBLEM)	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-07 11:16:33.127			NULL	NULL	2013-02-13 12:0
28	14818 TC004 SIGN MAINTENANCE	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-13 10:26:38.073			NULL	NULL	2013-02-14 07:0
29	14819 TC010 SIGNAL MAINTENANCE	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-13 10:30:24.913			NULL	NULL	2013-02-14 08:0
30	14821 TC010 SIGNAL LIGHT BULB	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-13 14:20:15.760		10000 SE 14TH ST	NULL	NULL	2013-02-14 13:0
31	14822 TC004 SIGN MAINTENANCE	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-13 14:26:33.327			NULL	NULL	2013-02-14 14:0
32	14826 TC010 SIGNAL LIGHT BULB	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-13 15:37:55.043			NULL	NULL	2013-02-15 07:0
33	14828 TC008 SIGN REPLACEMENT (REFLECTIVITY PROBLEM)	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-13 15:43:28.343			NULL	NULL	2013-02-15 09:0
34	14830 TC008 SIGN REPLACEMENT (REFLECTIVITY PROBLEM)	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-13 15:51:14.890			NULL	NULL	2013-02-15 10:0
35	14831 TC008 SIGN REPLACEMENT (REFLECTIVITY PROBLEM)	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-13 15:55:46.927			NULL	NULL	2013-02-15 12:0
36	14832 TC008 SIGN REPLACEMENT (REFLECTIVITY PROBLEM)	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-13 16:00:10.503			NULL	NULL	2013-02-15 14:0
37	14849 TC021 SIGNAL REPAIR (CONTRACTOR)	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-17 14:50:55.767		SE 19th & Douglas Blvd	NULL	NULL	2013-02-18 09:0
38	14850 TC012 SIGNAL MAINTENANCE	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-17 14:55:07.810			NULL	NULL	2013-02-18 12:0
39	14852 TC004 SIGN MAINTENANCE	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-17 15:05:26.110			NULL	NULL	2013-02-18 14:0
40	14855 TC004 SIGN MAINTENANCE	WILLIAMS, DOUGLAS	JACKSON, KIMMIE	JACKSON, KIMMIE	2013-06-18 15:25:32.967			NULL	NULL	2013-02-19 07:0
41	14856 TC004 SIGN MAINTENANCE	WILLIAMS, DOUGLAS	KUETTEL, MARY	JACKSON, KIMMIE	2013-06-18 16:01:05.110		In front of Henderson Inn	NULL	NULL	2013-02-19 12:0

- ❖ The field process is the same
 - except manual entry is done using iPad in the field
- ❖ Cellular signal or service issues are managed with careful usage of devices. (planned usage before or after work)
- ❖ The end result is a database managed by Cityworks in a SQL database behind the scenes



End results and benefits

WORKORDERID	DESCRIPTION	SUPERVISOR	REQUESTEDBY	INITIATEDBY	INITIATEDDATE	PROJECTNAME	LOCATION	PROJSTARTDATE	PROJFINISHDATE	ACTUALSTARTDATE	ACTUALFINISHDATE	W-#
107212	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		GREENFIELD, DUSTY	2018-09-13 15:15:59.000		1616 Seawade Dr	2018-09-15 15:15:59.000	2018-07-29 21:00:00.000	2018-07-29 22:00:00.000		Q#
107059	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-11 11:03:58.000		604 WOODLAND DR	2018-09-11 11:03:58.000	2018-09-13 11:03:58.000	2018-08-05 17:30:00.000	2018-07-11 22:30:00.000	C
106995	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-07 13:36:34.000		101 E KERR DR	2018-09-07 13:36:34.000	2018-09-08 14:36:34.000	2018-09-08 19:36:34.000	2018-09-08 19:36:34.000	C
106978	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-06 16:01:03.000		8812 NE 5TH ST	2018-09-06 16:01:03.000	2018-09-08 22:48:00.000	2018-09-08 22:48:00.000	2018-09-08 22:48:00.000	C
106970	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-06 10:30:05.000		2108 CLARY DR	2018-09-06 10:30:05.000	2018-09-08 10:30:05.000	2018-07-09 09:50:00.000	2018-07-09 10:20:00.000	C
106962	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-06 09:36:55.000		208 E MARSHALL DR	2018-09-06 09:36:55.000	2018-07-09 12:45:00.000	2018-07-09 12:45:00.000	2018-07-09 12:45:00.000	C
106949	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-05 16:33:18.000		3417 PARKWOODS LN	2018-09-05 16:33:18.000	2018-09-07 16:33:18.000	2018-07-06 08:00:00.000	2018-09-05 08:50:37.000	C
106940	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-05 14:40:42.000		9604 NE 3RD ST	2018-09-05 14:40:42.000	2018-07-05 14:40:42.000	2018-07-05 14:40:00.000	2018-07-05 14:40:00.000	C
106938	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-05 14:12:30.000		204 E MYRTLE DR	2018-09-05 14:12:30.000	2018-07-06 11:00:00.000	2018-07-06 11:00:00.000	2018-07-06 11:00:00.000	C
106933	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-05 13:06:51.000		1105 WOODCREST DR	2018-09-05 13:06:51.000	2018-07-07 13:06:51.000	2018-07-07 13:06:51.000	2018-07-07 13:06:51.000	C
106923	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-05 10:42:38.000		2408 BEARD DR	2018-09-05 10:42:38.000	2018-07-01 11:30:00.000	2018-07-01 12:00:00.000	2018-07-01 12:00:00.000	C
106921	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-05 10:11:37.000		404 R KEY BLVD	2018-09-05 10:11:37.000	2018-07-01 12:45:00.000	2018-07-01 12:45:00.000	2018-07-01 12:45:00.000	C
106919	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-05 09:51:08.000		404 E KERR	2018-09-05 09:51:08.000	2018-07-01 11:40:00.000	2018-07-01 11:40:00.000	2018-07-01 11:40:00.000	C
106918	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-05 09:41:23.000		2420 SHADY NOOK WAY	2018-09-05 09:41:23.000	2018-07-02 09:41:23.000	2018-06-29 14:00:00.000	2018-06-29 14:00:00.000	C
106917	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-05 09:31:20.000		817 STANSELL DR	2018-09-05 09:31:20.000	2018-06-29 15:00:00.000	2018-06-29 15:00:00.000	2018-06-29 15:00:00.000	C
106914	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-05 08:56:20.000		1720 MELODY DR	2018-09-05 08:56:20.000	2018-06-29 16:00:00.000	2018-06-29 16:00:00.000	2018-06-29 16:00:00.000	C
106876	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-01 15:37:18.000		503 E GRIMMAN DR	2018-09-01 15:37:18.000	2018-09-02 15:37:18.000	2018-06-26 09:15:00.000	2018-06-26 09:15:00.000	C
106874	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-01 15:14:33.000		503 E GRIMMAN DR	2018-09-01 15:14:33.000	2018-09-02 15:14:33.000	2018-06-26 09:15:00.000	2018-06-26 09:15:00.000	C
106872	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-09-01 14:41:10.000		9405 LYRIC LN	2018-09-01 14:41:10.000	2018-09-02 14:41:10.000	2018-06-26 10:00:00.000	2018-06-26 10:00:00.000	C
106415	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-08-20 09:08:13.000		10741 BELLMONT AVE	2018-08-20 09:08:13.000	2018-07-23 07:40:00.000	2018-07-23 07:40:00.000	2018-07-23 07:40:00.000	C
106346	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-08-16 11:11:28.000		2017 SANDRA DR	2018-08-16 11:11:28.000	2018-07-17 13:40:00.000	2018-07-17 13:40:00.000	2018-07-17 13:40:00.000	C
106342	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-08-16 09:35:42.000		1117 BELL DR	2018-08-16 09:35:42.000	2018-07-17 16:00:00.000	2018-07-17 16:00:00.000	2018-07-17 16:00:00.000	C
106339	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-08-16 09:05:08.000		106 WINDSOR WAY	2018-08-16 09:05:08.000	2018-07-17 10:00:00.000	2018-07-17 10:00:00.000	2018-07-17 10:00:00.000	C
106326	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-08-16 08:08:28.000		800 FAIRLAINE DR	2018-08-16 08:08:28.000	2018-07-17 12:45:00.000	2018-07-17 12:45:00.000	2018-07-17 12:45:00.000	C
105189	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		BLY, CHARLES	2018-07-25 15:30:10.000		6108 SE 5TH ST	2018-07-25 15:30:10.000	2018-06-19 14:00:00.000	2018-06-19 14:00:00.000	2018-06-19 14:00:00.000	B
105170	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-07-25 14:01:51.000		298 FRIENDLY RD	2018-07-25 14:01:51.000	2018-06-25 15:40:00.000	2018-06-25 15:40:00.000	2018-06-25 15:40:00.000	C
105142	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		BLY, CHARLES	2018-07-25 10:34:08.000		709 N MEADOW LN	2018-07-25 10:34:08.000	2018-06-12 09:45:00.000	2018-06-12 09:45:00.000	2018-06-12 09:45:00.000	B
105131	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		BLY, CHARLES	2018-07-25 09:46:16.000			2018-07-25 09:46:16.000	2018-06-11 08:15:00.000	2018-06-11 08:15:00.000	2018-06-11 08:15:00.000	B
105119	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-07-25 08:23:36.000		9718 NE 2ND PL	2018-07-25 08:23:36.000	2018-06-25 11:15:00.000	2018-06-25 11:15:00.000	2018-06-25 11:15:00.000	C
105116	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-07-24 16:33:15.000		536 CARDINAL PL	2018-07-24 16:33:15.000	2018-06-25 18:00:00.000	2018-06-25 18:00:00.000	2018-06-25 18:00:00.000	C
105114	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-07-24 16:22:51.000		1213 JUNIPER CIR	2018-07-24 16:22:51.000	2018-06-25 09:20:00.000	2018-06-25 09:20:00.000	2018-06-25 09:20:00.000	C
105111	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-07-24 16:04:25.000		6220 SE 15TH ST	2018-07-24 16:04:25.000	2018-06-25 16:04:25.000	2018-06-25 16:04:25.000	2018-06-25 16:04:25.000	C
105109	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-07-24 15:45:35.000		132 W SILVER MEADO	2018-07-24 15:45:35.000	2018-06-25 16:45:35.000	2018-06-25 16:45:35.000	2018-06-25 16:45:35.000	C
105106	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-07-24 15:17:16.000		212 E COE DR	2018-07-24 15:17:16.000	2018-06-24 11:30:00.000	2018-06-24 11:30:00.000	2018-06-24 11:30:00.000	C
105104	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-07-24 15:03:21.000		408 THREE OAKS DR	2018-07-24 15:03:21.000	2018-06-24 08:37:00.000	2018-06-24 08:37:00.000	2018-06-24 08:37:00.000	C
105102	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-07-24 14:49:44.000		3523 PENNY DR	2018-07-24 14:49:44.000	2018-06-23 10:35:00.000	2018-06-23 10:35:00.000	2018-06-23 10:35:00.000	C
105101	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		CARNES, OUSHA	2018-07-24 14:36:54.000		805 KING AVE	2018-07-24 14:36:54.000	2018-06-24 17:55:00.000	2018-06-24 17:55:00.000	2018-06-24 17:55:00.000	C
105100	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		BLY, CHARLES	2018-07-24 14:35:29.000		1391 MIDWEST BLVD	2018-07-24 14:35:29.000	2018-06-07 13:15:00.000	2018-06-07 13:15:00.000	2018-06-07 13:15:00.000	B
105077	5023 - MAIN LINE BLOCKAGE	MADISON, JUSTIN		BLY, CHARLES	2018-07-24 10:33:57.000		205 E NORTHRUP	2018-07-24 10:33:57.000	2018-07-26 10:33:57.000	2018-06-08 08:40:00.000	2018-06-08 10:40:00.000	B

- ❖ Using the same process in different departments to be able to maintain all of the city assets
- ❖ Keeps a running history of city assets for future projects and assessments of assets
- ❖ Provide better prevention and brings monetary savings value to the City

Public Safety

Storm Shelter Registry - Background



May 1999 Tornado ended in Midwest City

- ❖ 5 deaths; 142 injuries
- ❖ 27 businesses, 188 homes destroyed
- ❖ 468 homes damaged



749 registered in May 2009

Ownership & Registration Actively Encouraged after 1999 Tornado



Public Safety

Encouraged Private Shelter Ownership

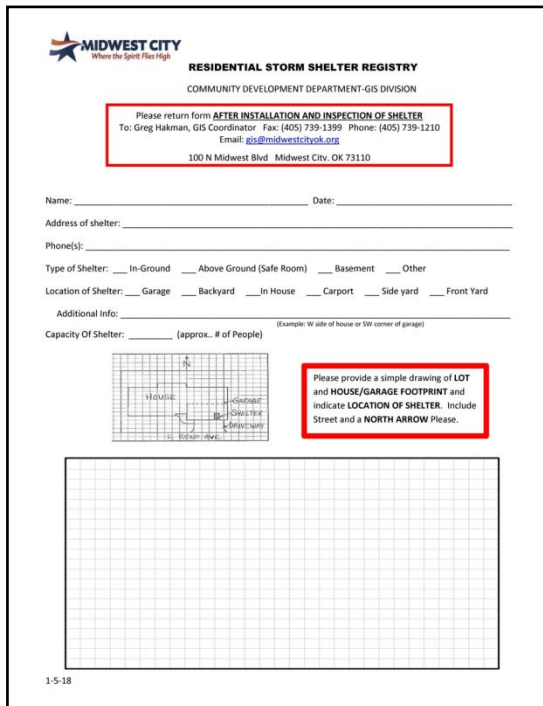
- ❖ FEMA grants for **205** shelters in 1999;
723 more by 2012 (of \$2000 each)
- ❖ American Red Cross grants for **208** shelters in 2015 (\$2500 each)
- ❖ Sooner Safe grant program with unknown additional grants

1136 grants awarded 1999-2015



Public Safety

Encouraged Storm Shelter Registration



MIDWEST CITY
Where the Spirit Flies High

RESIDENTIAL STORM SHELTER REGISTRY
COMMUNITY DEVELOPMENT DEPARTMENT-GIS DIVISION

Please return form **AFTER INSTALLATION AND INSPECTION OF SHELTER**
To: Greg Hakman, GIS Coordinator Fax: (405) 739-1399 Phone: (405) 739-1210
Email: gis@midwestcityok.org
100 N Midwest Blvd Midwest City, OK 73110

Name: _____ Date: _____
Address of shelter: _____
Phone(s): _____
Type of Shelter: ☐ In-Ground ☐ Above Ground (Safe Room) ☐ Basement ☐ Other
Location of Shelter: ☐ Garage ☐ Backyard ☐ In House ☐ Carport ☐ Side yard ☐ Front Yard
Additional Info: _____
Capacity Of Shelter: _____ (approx. # of People) (Example: W side of house or SW corner of garage)

Please provide a simple drawing of LOT and HOUSE/GARAGE FOOTPRINT and indicate LOCATION OF SHELTER. Include Street and a NORTH ARROW Please.

1-5-18

- ❖ Separate from permit application
 - ❖ Form brought by inspector
 - ❖ Available online
 - ❖ Available at City Hall
-
- ❖ Enter into **ArcGIS** – symbolized by type
 - ❖ GPS **coordinates** are calculated
 - ❖ Privacy concerns - **Limited access** to data:
 - ❖ GIS, EOC, & First Responders

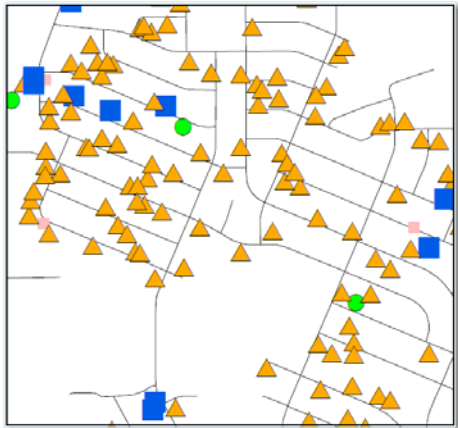
Grew from 749 to **3203** today



Public Safety

Prepare ahead when Storms Forecasted

May Lose Power/Internet



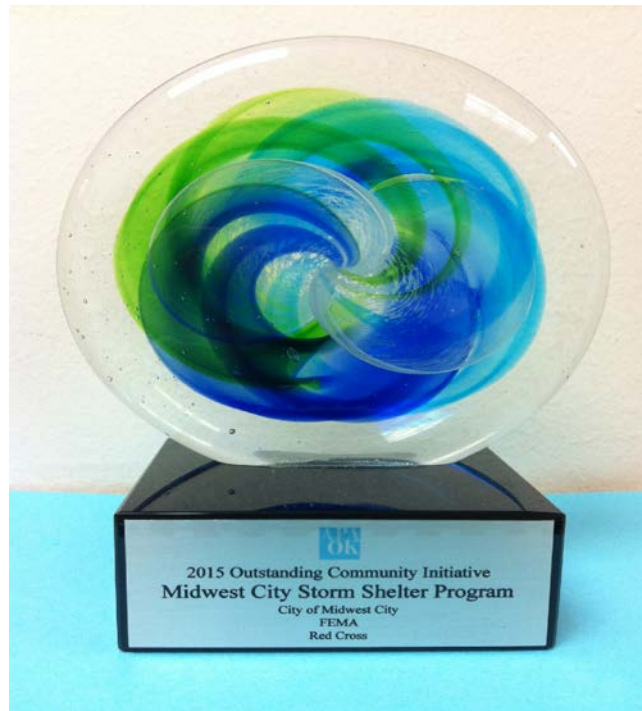
- ❖ Pre-print large maps and atlases of storm shelter locations
- ❖ Export data for conversion to CarryMaps file
- ❖ Download to MDM software to serve to iPads
- ❖ Notify Fire Department of update



Community Initiative Award

Given in 2015 by the Oklahoma Chapter of the
American Planning Association (APA)

- ❖ For our multi-faceted approach to bolster our Storm Shelter Program



MapView

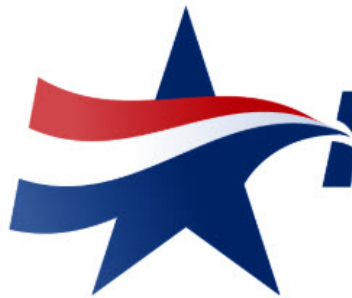


ArcGIS Online

ap Scene Groups Content Organization



Greg ▾

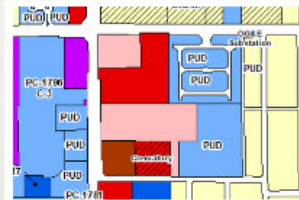


MIDWEST CITY

Where the Spirit Flies High



City of Midwest City Original
Mile Revitalization Sidewalk



Planning & Zoning



Projects Web Map



Spyglass Example - Zoning

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Find Your Place

Midwest City GIS Drone





Find Your Place







City Park at Town Center



Future GIS Initiatives

- ❖ Transition from MapViewer to ArcGIS Online
- ❖ Expanded web-based mapping solutions
- ❖ Cityworks PLL Implementation
- ❖ Mobile Solutions
- ❖ Expansion of GIS software use throughout City Departments



Midwest City GIS Links

- ❖ Official City Page - www.midwestcityok.org
- ❖ Public MapViewer - maps.midwestcityok.org
- ❖ Midwest City ArcGIS Online - <https://mwcok.maps.arcgis.com>



