KCAIUG January 2015

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Mapping in Johnson County

AIMS was initiated by the Board of County Commissioners in the mid-1980s. The major reason for establishing AIMS was to enable the county to meet the rigorous mapping and documentation requirements of the complete property reappraisal mandated by the Kansas State Legislature.

AIMS has since grown into a highly integrated support and service department within the county. We offer many services including map production, custom enterprise-level application development, and

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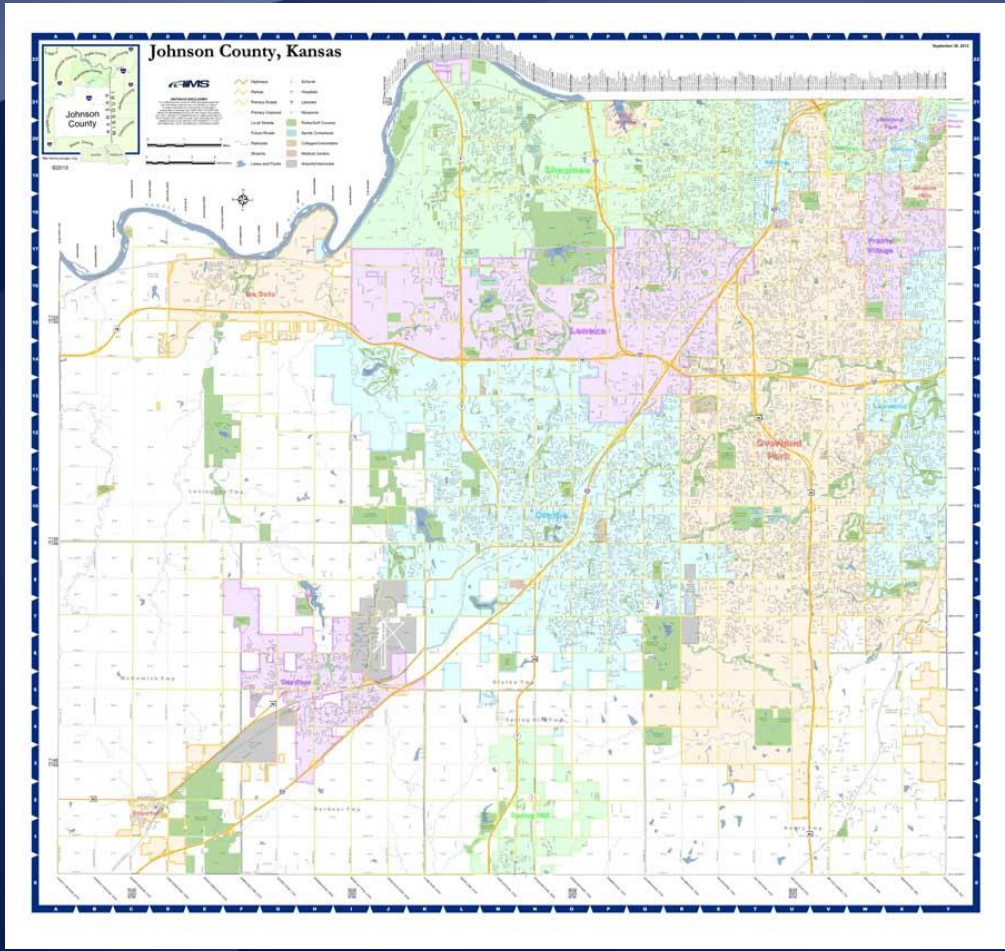
EXAMPLES of AIMS maps



Johnson County Road Map

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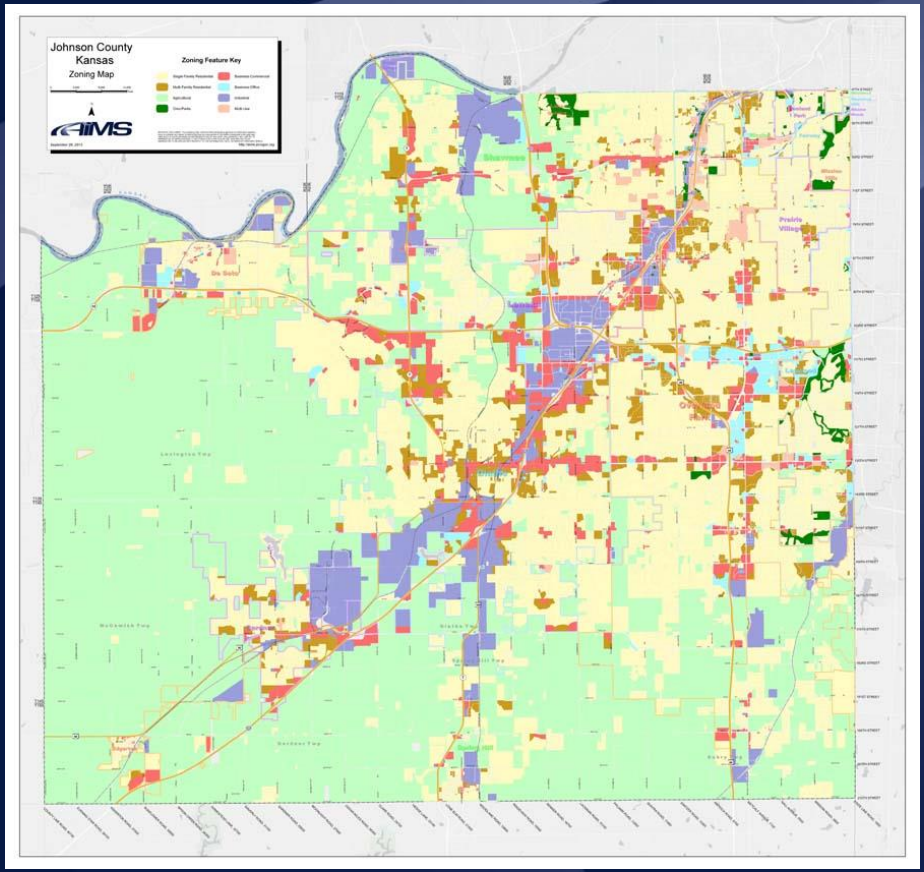
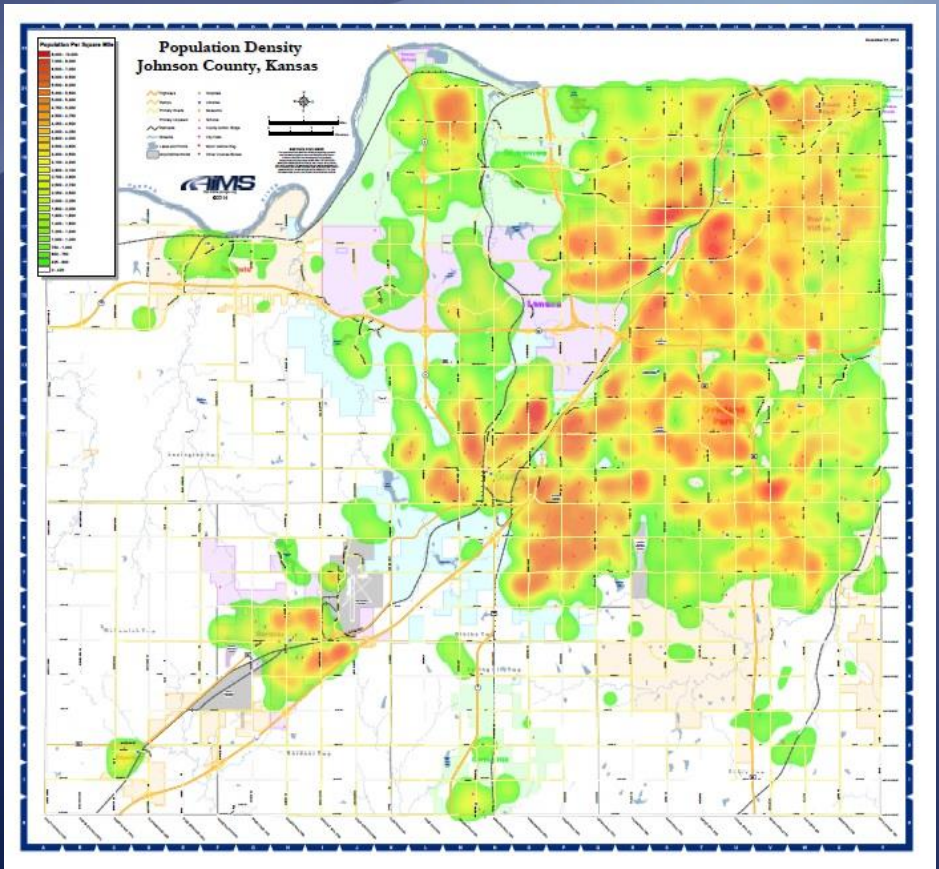
EXAMPLES of AIMS maps



Johnson County Zoning Map



Johnson County Population Density Heat map

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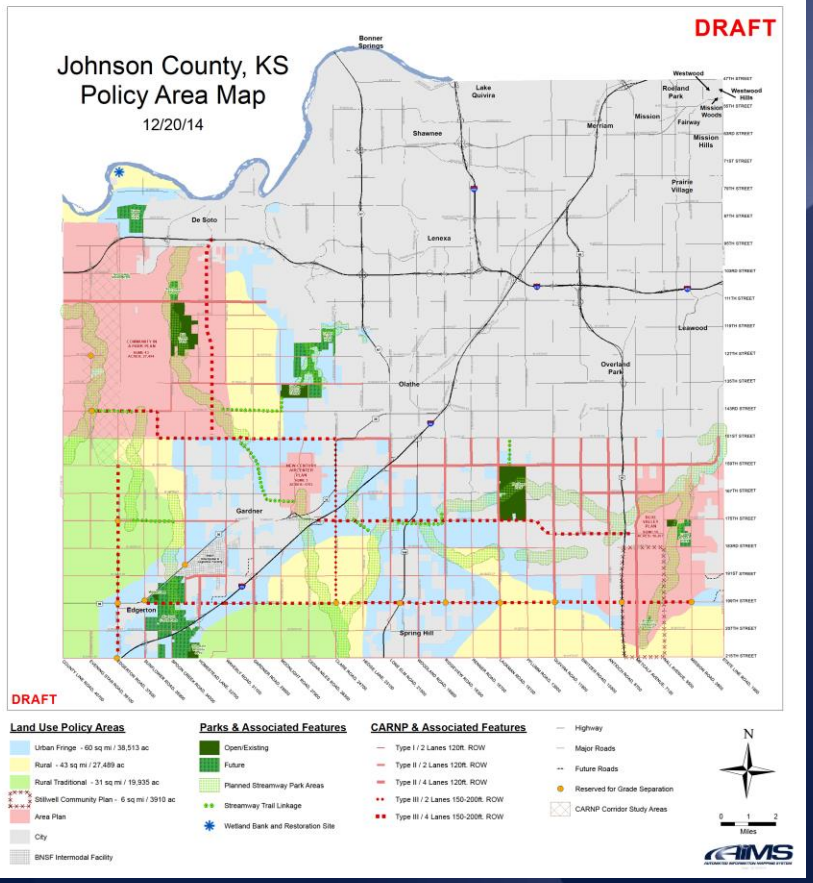
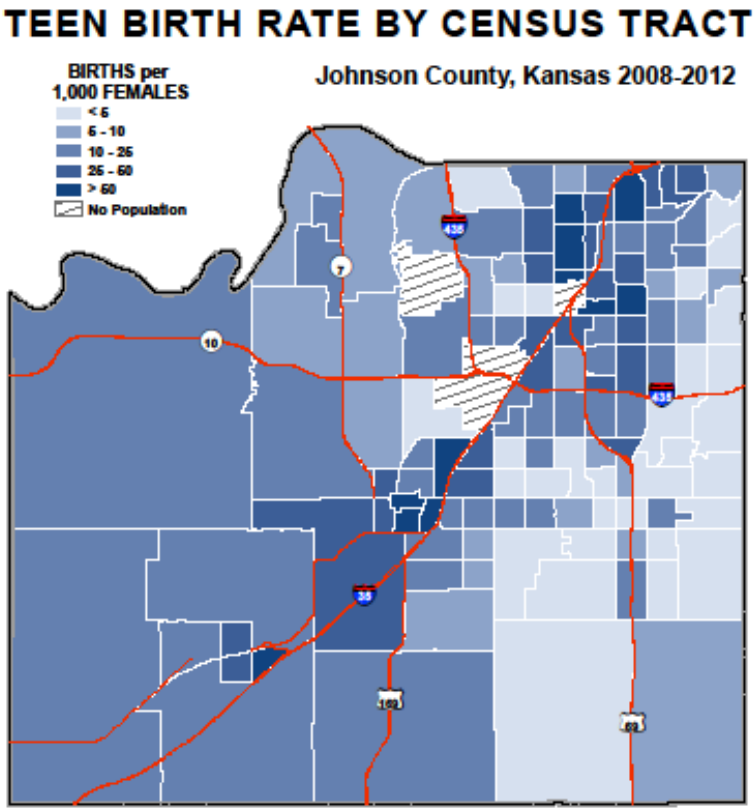
EXAMPLES of AIMS maps



Johnson County Policy Area Map
For Planning Department



Johnson County Teen Birth Rate Map
For Public Health and Human Services

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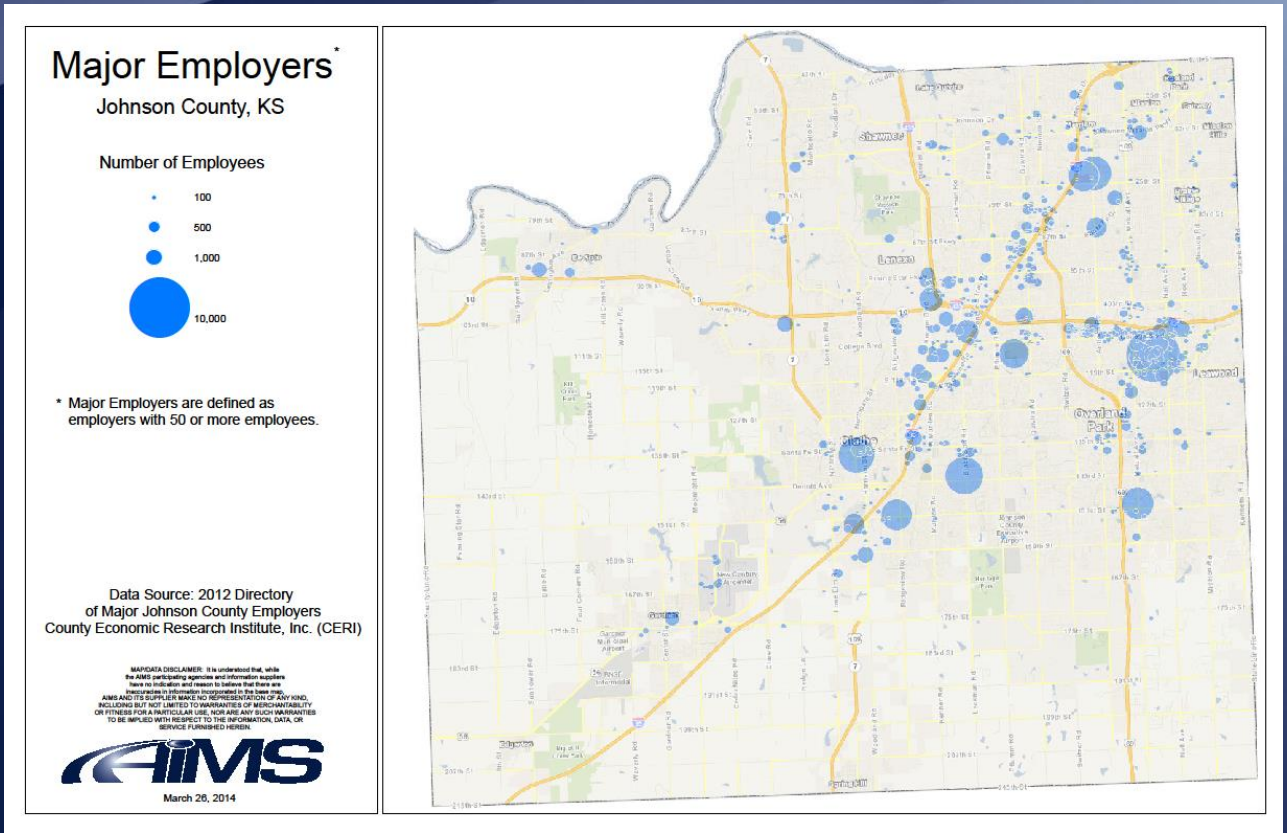
EXAMPLES of AIMS maps



Johnson County Major Employers
For County Manager

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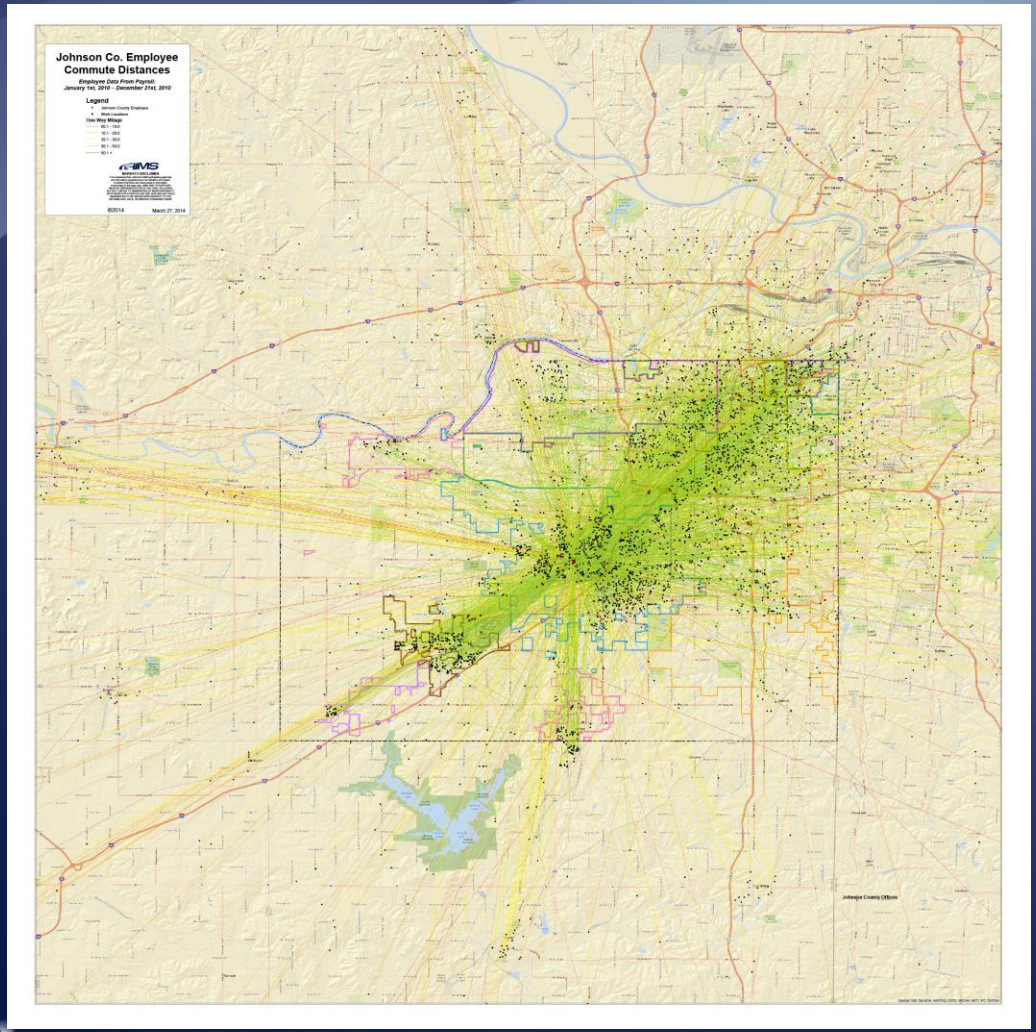
EXAMPLES of AIMS maps



Johnson County Employee Commute times
For County Manager

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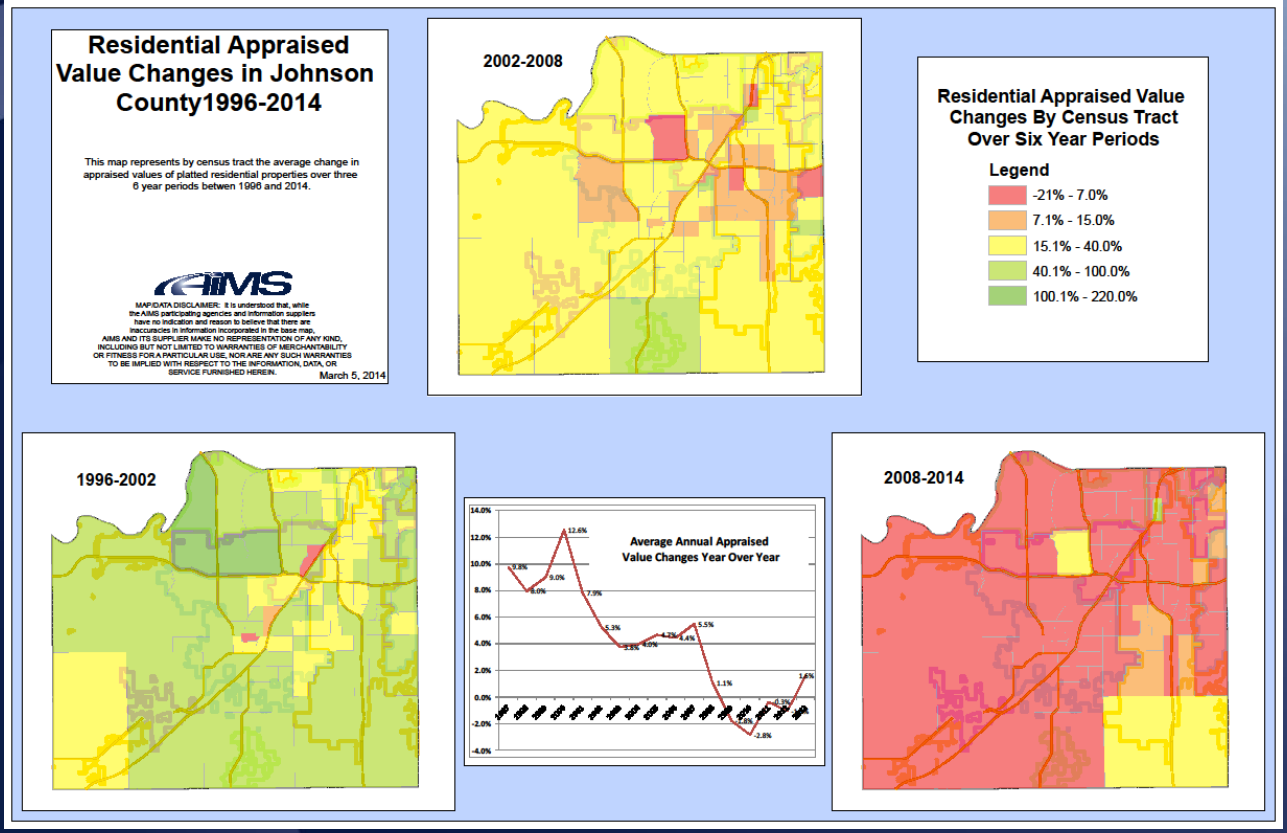
EXAMPLES of AIMS maps



Residential Appraised Value Changes

For County Manager reports

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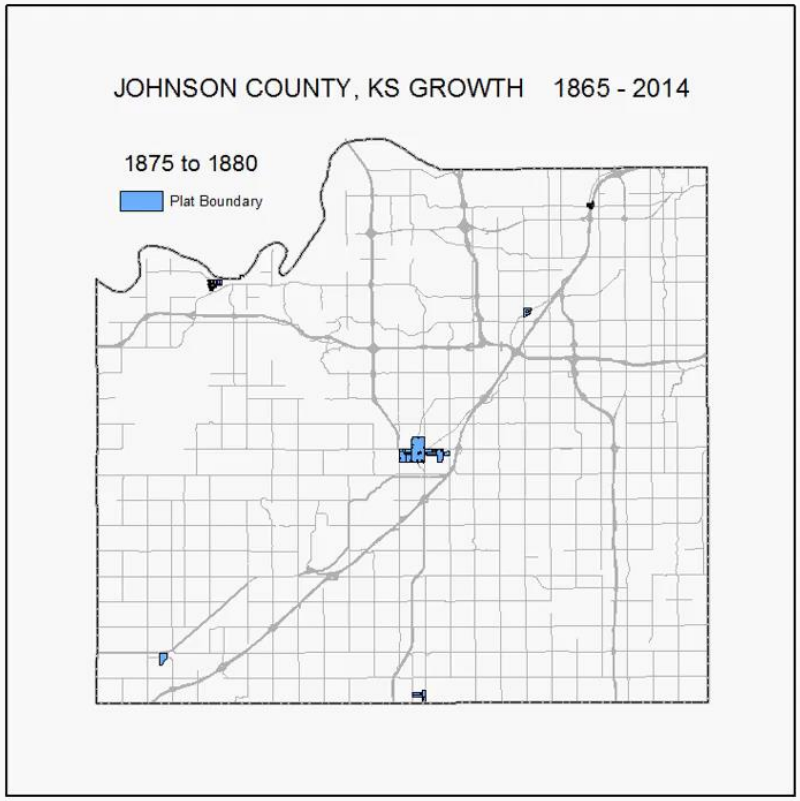
EXAMPLES of AIMS maps

Examples of AIMS animated maps



Johnson County Plat growth 1865 - 2014

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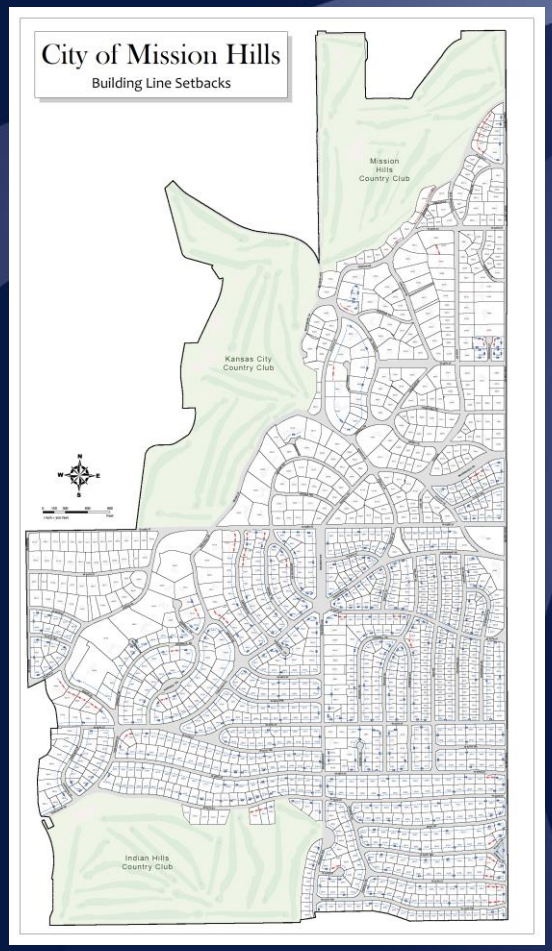
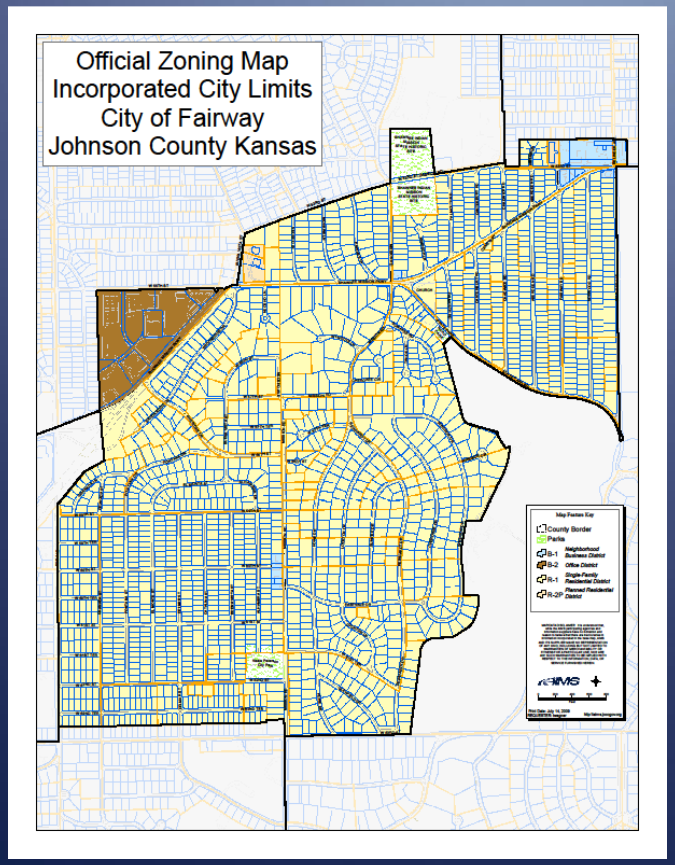
EXAMPLES of AIMS maps





City of Mission Hills Building Setbacks

City of Fairway

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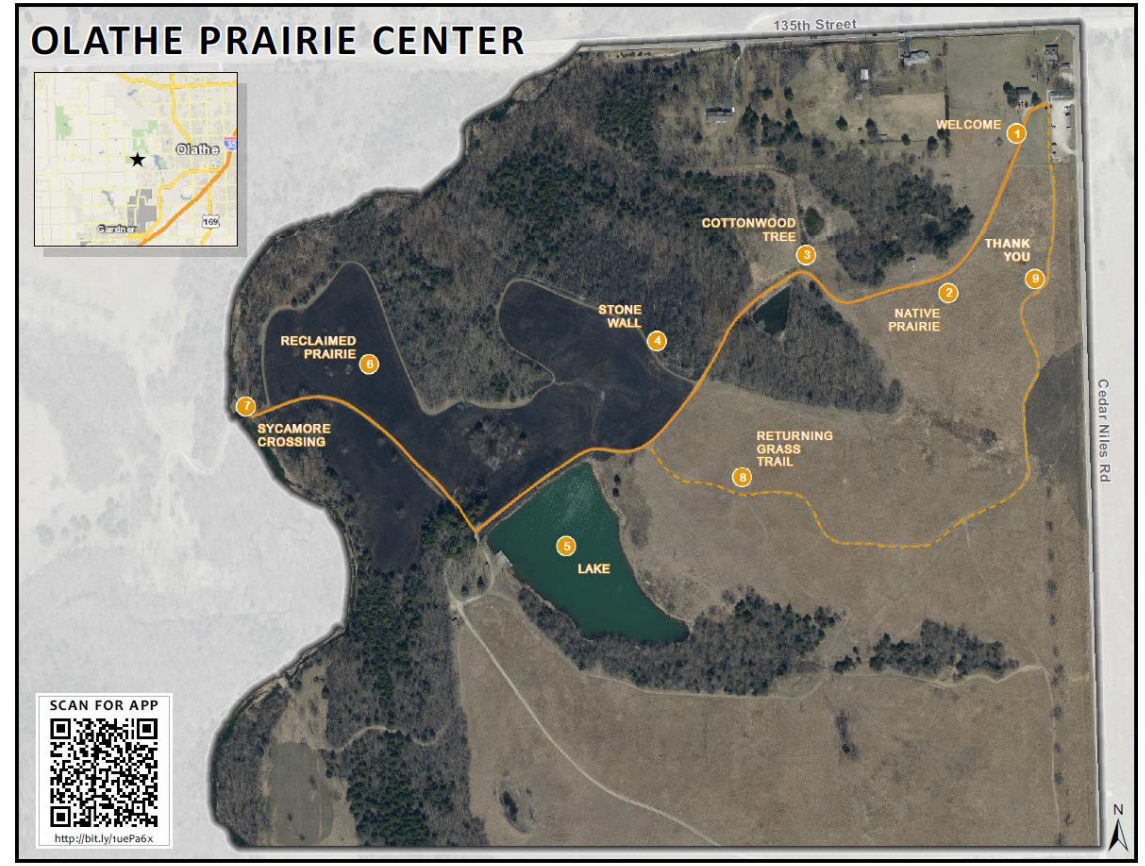
EXAMPLES of AIMS maps



Olathe Prairie Center Path map & QR Code Kansas Department of Wildlife and Parks - http://bit.ly/1uePa6x

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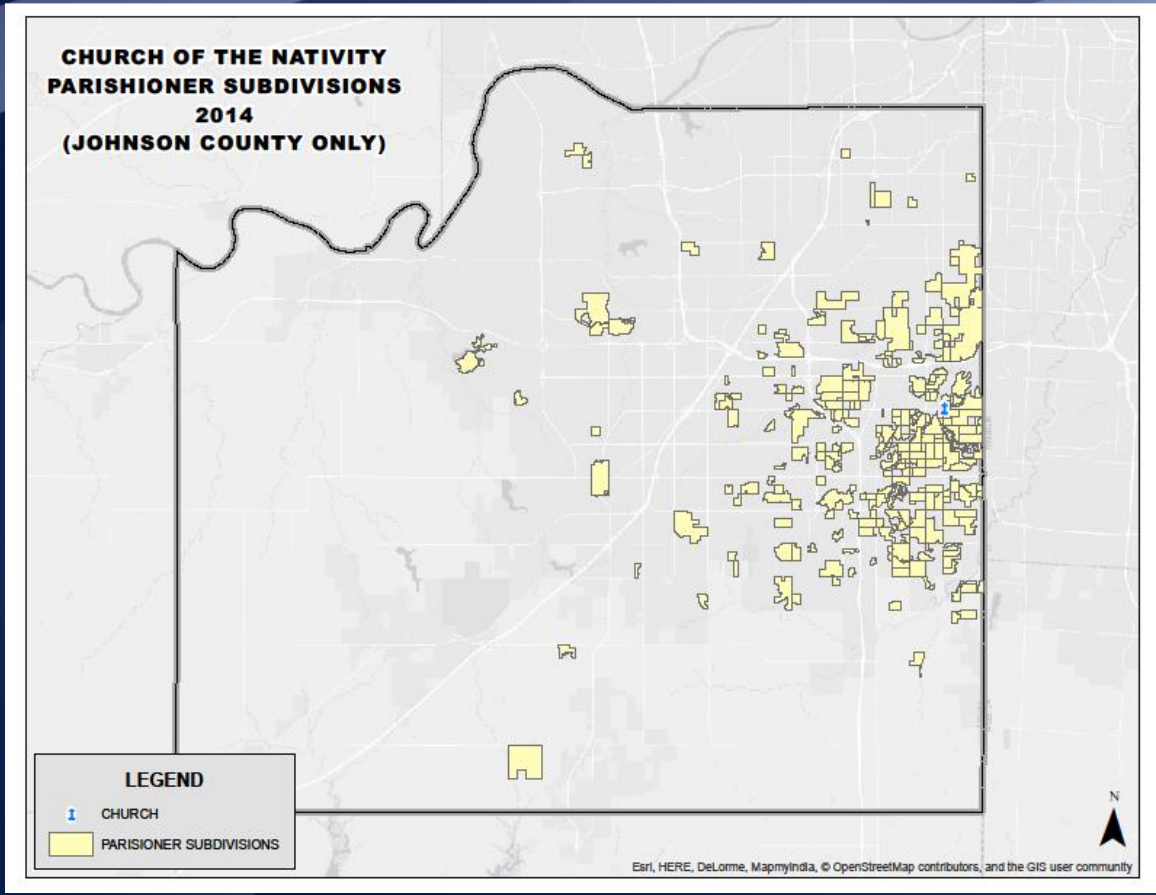
EXAMPLES of AIMS maps



Church Parishioner locations
For local church in Leawood

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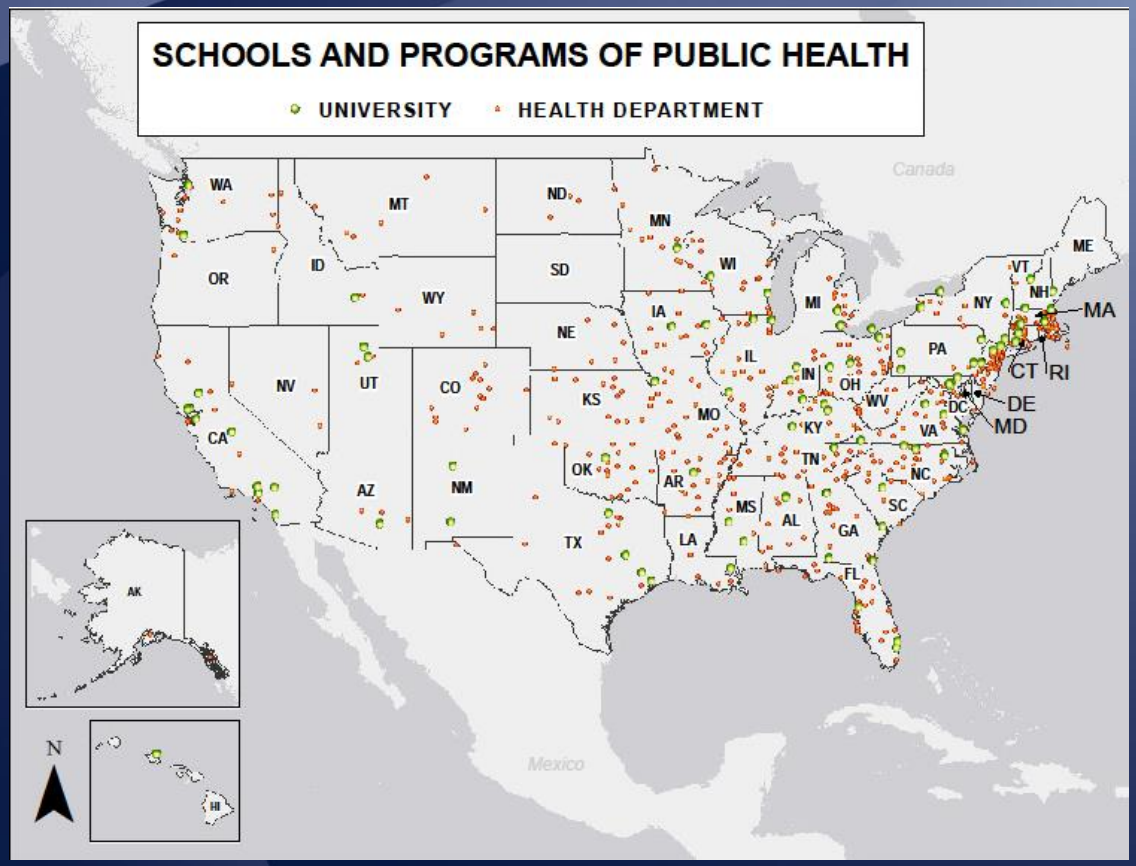
EXAMPLES of AIMS maps



University & Public Health Dept locations

For private citizen working on dissertation

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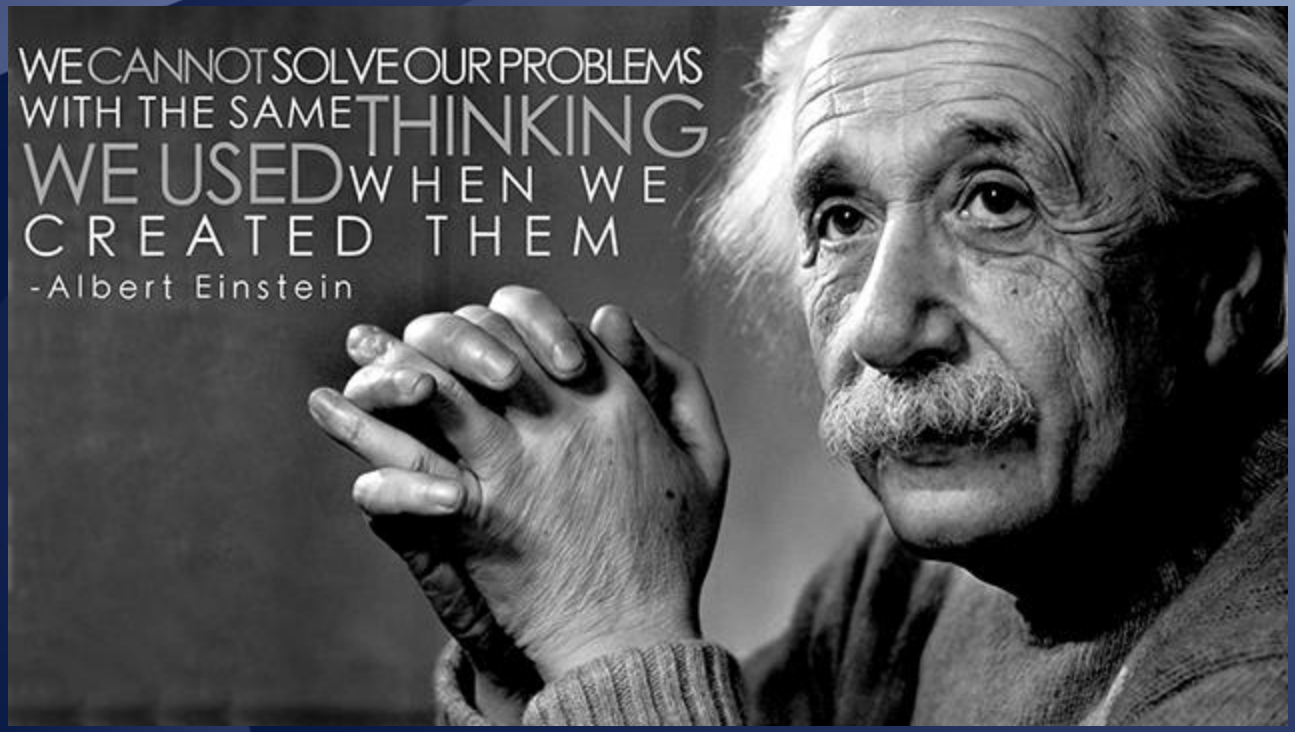
ESRI Lessons Learned 2014

Imagery

- SDE Raster at 10.2
  - Desktop 10.2
  - ArcGISPro
  - Desktop 10.3?
  - Listserve comment

ESRI Lessons Learned 2014



ESRI Lessons Learned 2014

- Mosaic - Possible Benefits:
  - Faster to get in useable format
  - Faster responsiveness?
  - File storage may be cheaper than database storage
  - Less duplication
- Requires Image server extension to serve via ArcGIS server

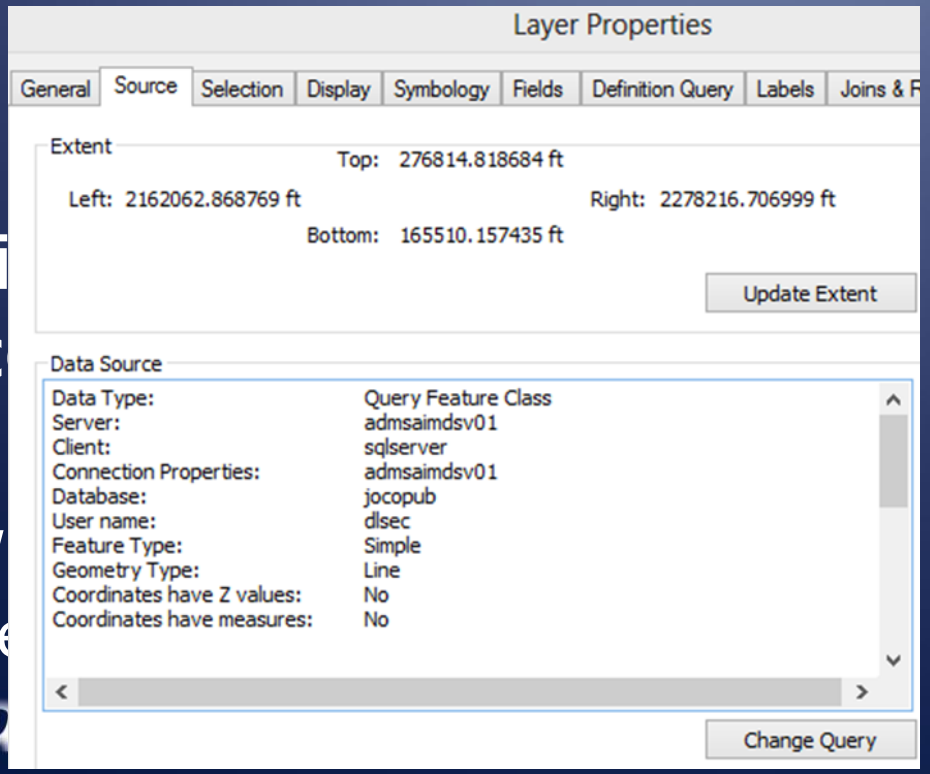
ESRI Lessons Learned 2014

Bugs

- FC creation - "Underlying DBMS error ... Invalid precision value"
  - 10.2 Bug - Field Length
  - Supposed to be fixed at 10.2.2 and 10.3
  - Change the length of the text field to <4000

ESRI Lessons Learned 2014

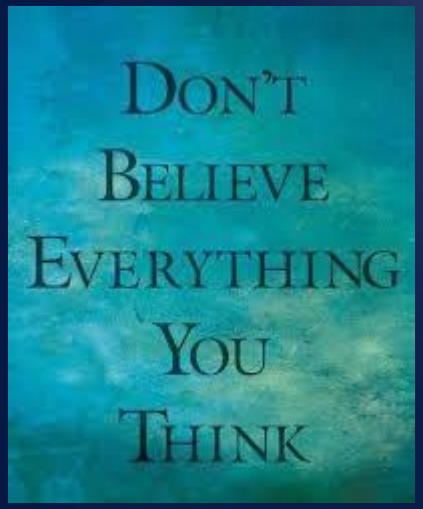
- Change SDEviews to SQLviews
  - Layer files - SDE Feature Class vs Query Feature Class
    - Slow (10x)-
    - source
  - Scripting update wi
    "ReplaceDataSourc
    - Table won't open
    - Selections not draw
    - Cannot zoom to sele



ESRI Lessons Learned 2014

Upgrades

- Custom configurations in SDE_DBTune do not necessarily get ported during an SDE “upgrade”.



ESRI Lessons Learned 2014

- ESRI recommends changing from 3 tier to 2 tier connection type.
  - Script to update the connection
  - Does not work for raster
  - Stops and waits on input on certificate errors

ESRI Lessons Learned 2014

- Changing data to SQL spatial is easy… unless you have to:
  - Upgrade precision
  - Set spatial references
  - Look for fields that might be problematic
  - Finally MigrateStorage!

ESRI Lessons Learned 2014

- From the 10.2 deprecation doc

- ArcSDE and Database
  - [Added July 27, 2014] While we are not announcing the deprecation of the Esri Binary type, this is to serve notice that new features supported in SQL spatial type may not be supported in the Esri Binary type. Esri recommends customers consider migrating existing SDEBINARY data to a native spatial type to leverage new functionality.
  - [Added June 27, 2014] At ArcGIS 10.3, our base support for IBM DB2 z/OS will begin at version 10. IBM ended support of DB2 z/OS V9 on June 27, 2014.
  - [Added June 27, 2014] ArcGIS 10.2.2 will be the last release that supports PostgreSQL 9.0.5. ArcGIS 10.3 will support PostgreSQL 9.1.3, 9.2.4, and 9.3.2.
  - [Updated November 22, 2013] The ArcGIS 10.2 series of releases (ArcGIS 10.2, 10.2.1, and 10.2.2) will be the last releases that include the ArcSDE command line tools. Esri encourages use of the new Geodatabase Administration dialog box in ArcCatalog and ArcMap and the related geoprocessing tools that were introduced at 10.1.
  - [Updated November 22, 2013] The ArcGIS 10.2 series of releases (ArcGIS 10.2, 10.2.1, and 10.2.2) will be the last releases that include the ArcSDE application server. Esri encourages those that have deployed an ArcSDE application server to move to new database connections introduced in 10.1 as part of their next upgrade.

I will not forget to save ArcGIS every few minutes!
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BANCO
dude...
it's ez-ree.

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What have we done recently at the **database level** that are …

- Extending our capabilities
  - New and innovative
- Making us more productive
  - Making us more efficient
  - Making our data more …
    Open / Accessible / Consumable

Database Environment

	RTM (no SP)	SP1	SP2	SP3	SP4
SQL Server 2014 codename ~~Hekaton~~ SQL14	12.0.2000.8				
SQL Server 2012 codename Denali	11.0.2100.60	11.0.3000.0 or 11.1.3000.0	11.0.5058.0 or 11.2.5058.0		
SQL Server 2008 R2 codename Kilimanjaro	10.50.1600.1	10.50.2500.0 or 10.51.2500.0	10.50.4000.0 or 10.52.4000.0	10.50.6000.34 or 10.53.6000.34	
SQL Server 2008 codename Katmai	10.0.1600.22	10.0.2531.0 or 10.1.2531.0	10.0.4000.0 or 10.2.4000.0	10.0.5500.0 or 10.3.5500.0	10.0.6000.29
SQL Server 2005 codename Yukon	9.0.1399.06	9.0.2047	9.0.3042	9.0.4035	
SQL Server 2000 codename Shiloh	8.0.194	8.0.384	8.0.532	8.0.760	
SQL Server 7.0 codename Sphinx	7.0.623	7.0.699	7.0.842	7.0.961	

ADMSAIMDSV01

172.16.4.57

HP Proliant DL380 G8 (Dec 2013)
Dual Quad Intel 3.5Ghz/ 64GB RAM
Windows 2012r2 / SQL 2012

Services:
Main file server
Production SQL & SDE
Data sync application

Main file shares:
\\admsaimdsv01\mapping
\\admsaimdsv01\aimsusers

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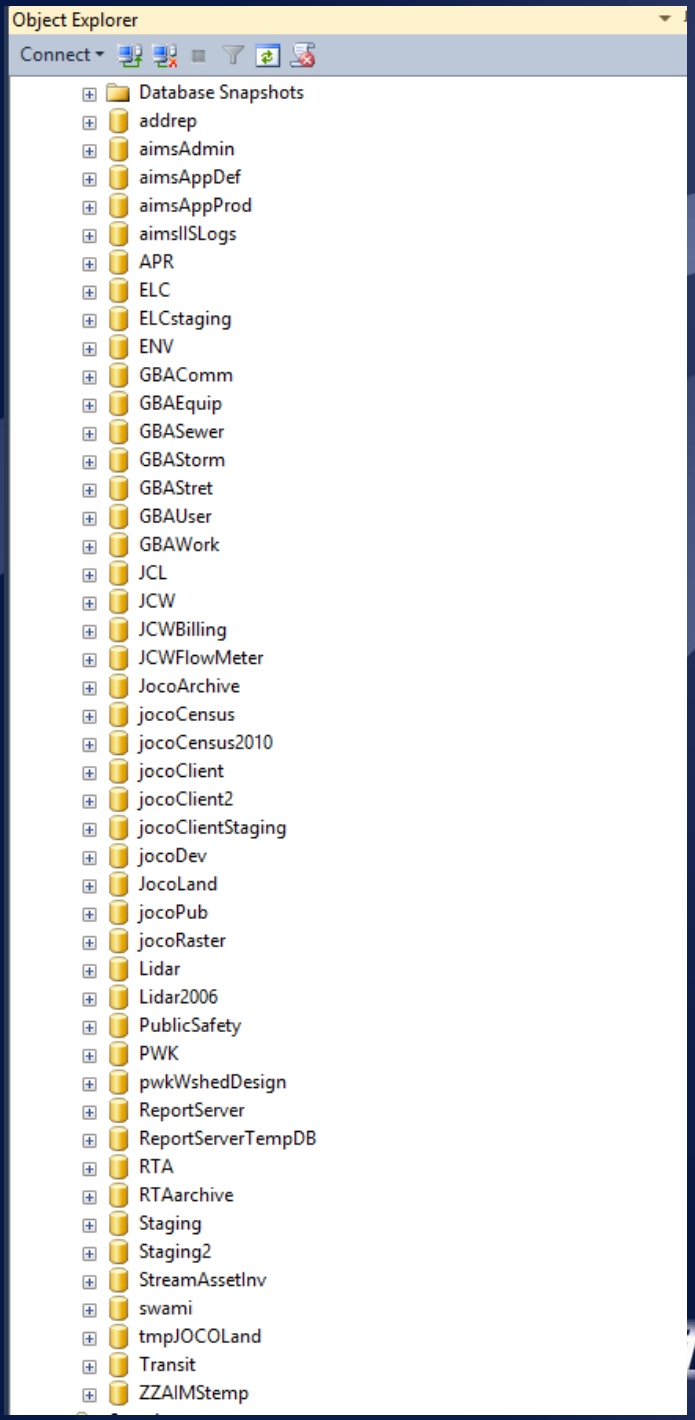
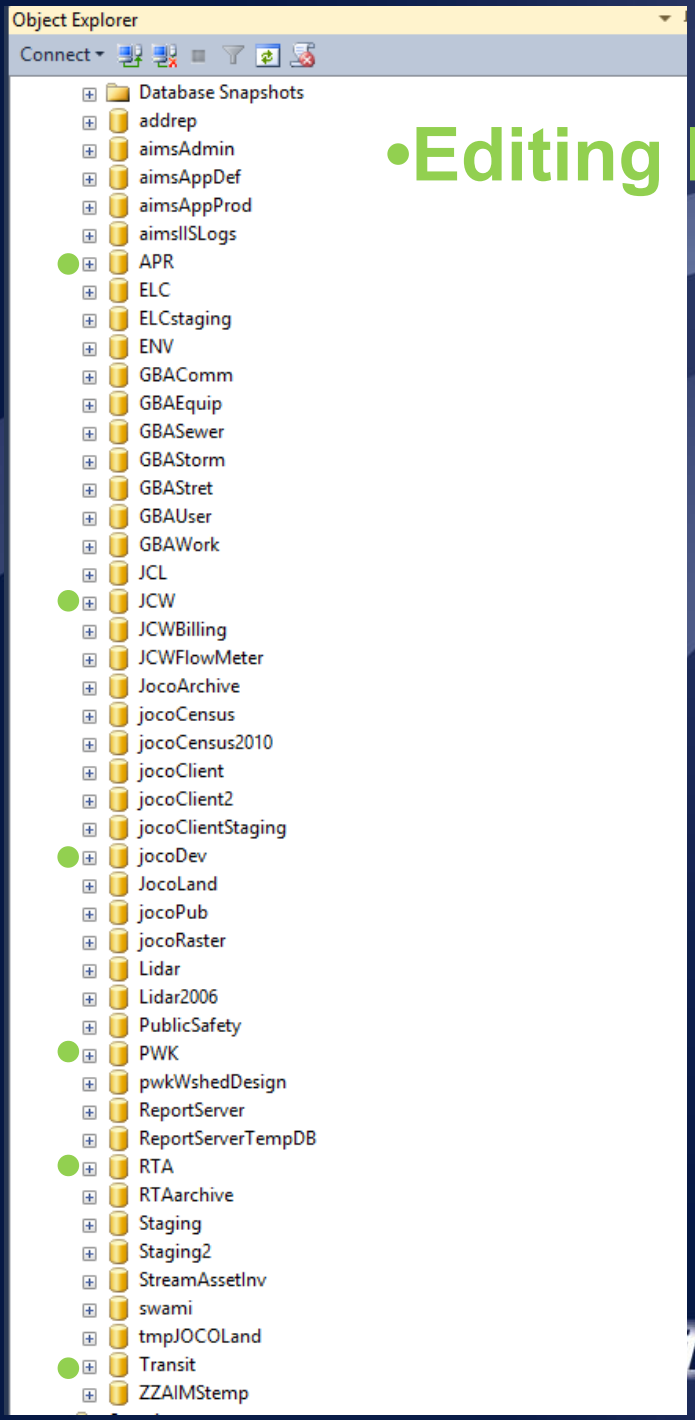


Databases on the AIMS Data Server (admsaimdsv01)



•Editing Feature Classes (development)

Databases on the AIMS Data Server (admsaimdsv01)

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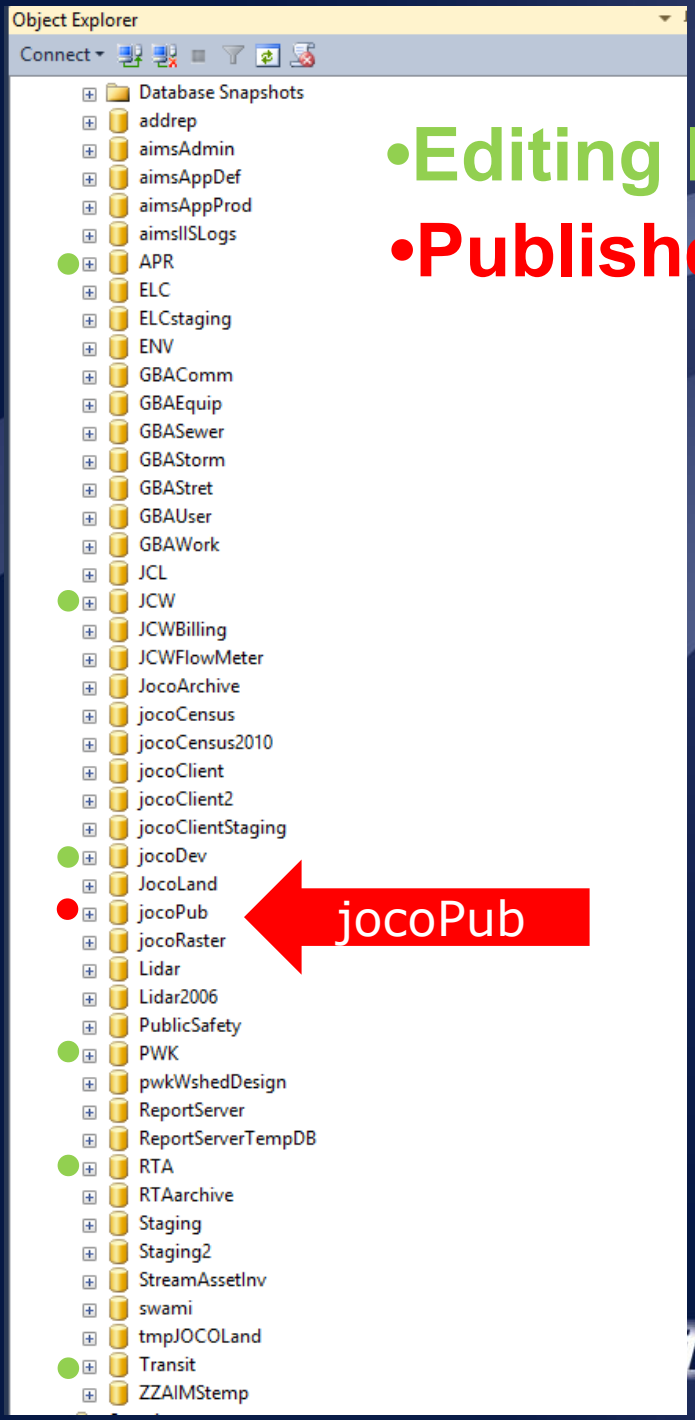

jocoPub

- Editing Feature Classes (development)
- Published Feature Classes (current)

Databases on the AIMS Data Server (admsaimdsv01)

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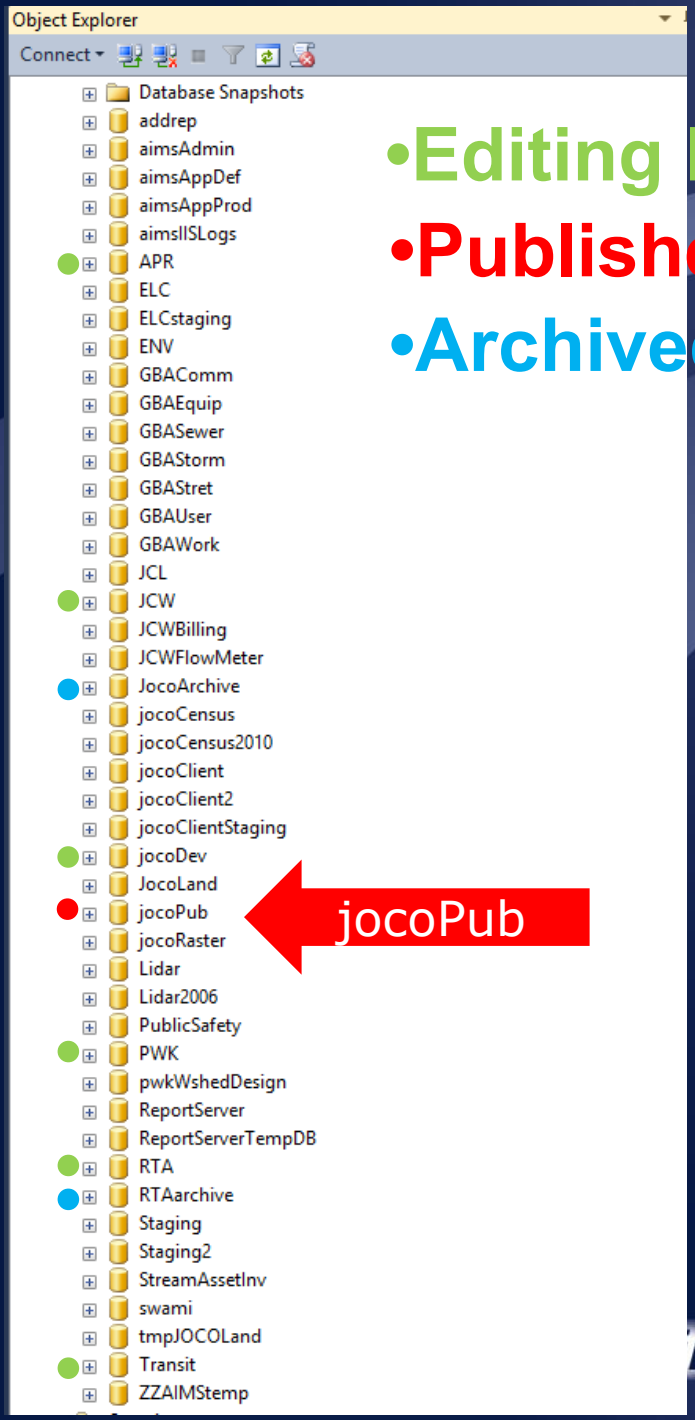

jocoPub

- Editing Feature Classes (development)
- Published Feature Classes (current)
- Archived Feature Classes (mrp and ss)

Databases on the AIMS Data Server (admsaimdsv01)

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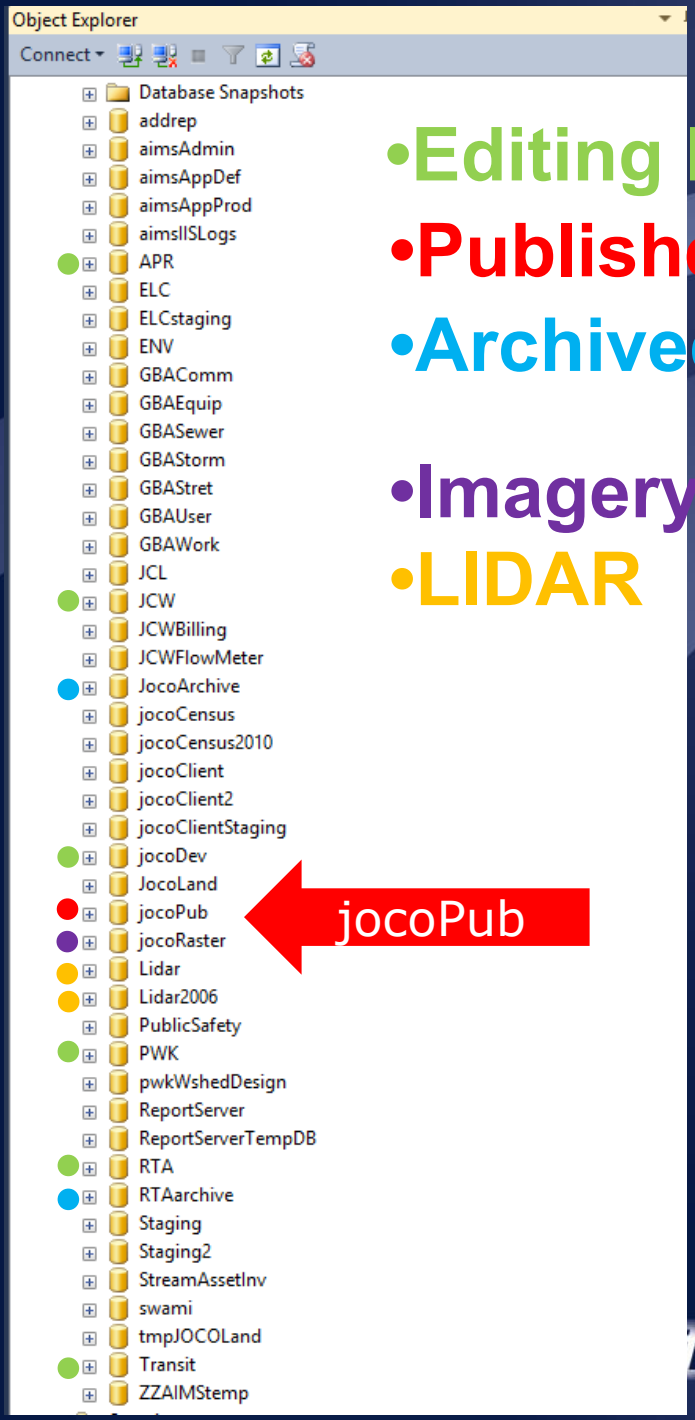

jocoPub

- Editing Feature Classes (development)
- Published Feature Classes (current)
- Archived Feature Classes (mrp and ss)

- Imagery
- LIDAR

Databases on the AIMS Data Server (admsaimdsv01)

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jocoPub

- Editing Feature Classes (development)
- Published Feature Classes (current)
- Archived Feature Classes (mrp and ss)

- Imagery
- LIDAR

- Non-Feature Class "Attribute Data"

Databases on the AIMS Data Server (admsaimdsv01)

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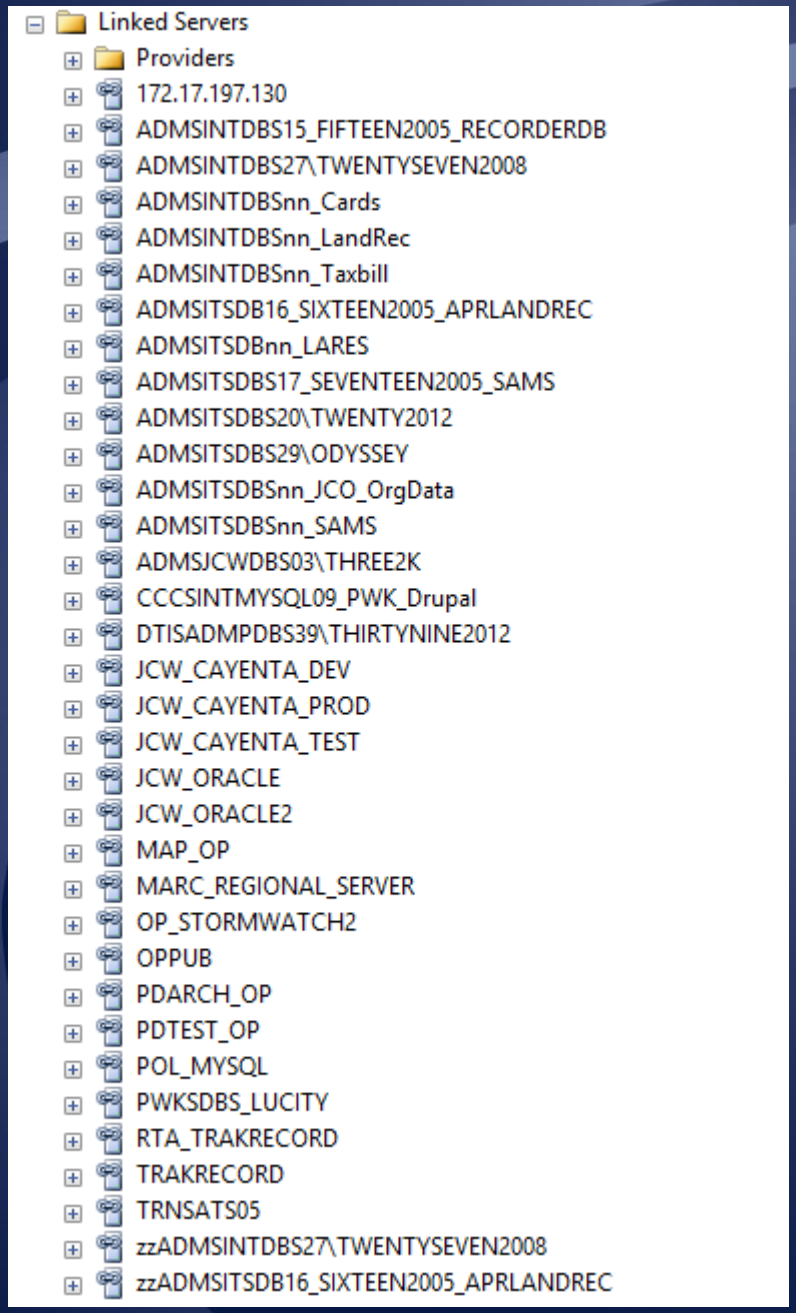
Linked Servers
Providers
172.17.197.130
ADMSINTDBS15_FIFTEEN2005_RECORDERDB
ADMSINTDBS27\TWENTYSEVEN2008
ADMSINTDBSnn_Cards
ADMSINTDBSnn_LandRec
ADMSINTDBSnn_TaxbilI
ADMSITSDB16_SIXTEEN2005_APRLANDREC
ADMSITSDBnn_LARES
ADMSITSDBS17_SEVENTEEN2005_SAMS
ADMSITSDBS20\TWENTY2012
ADMSITSDBS29\ODYSSEY
ADMSITSDBSnn_JCO_OrgData
ADMSITSDBSnn_SAMS
ADMSJCWDBS03\THREE2K
CCCSINTMYSQL09_PWK_Drupal
DTISADMPDBS39\THIRTYNINE2012
JCW_CAYENTA_DEV
JCW_CAYENTA_PROD
JCW_CAYENTA_TEST
JCW_ORACLE
JCW_ORACLE2
MAP_OP
MARC_REGIONAL_SERVER
OP_STORMWATCH2
OPPUB
PDARCH_OP
PDTEST_OP
POL_MYSQL
PWKSDBS_LUCITY
RTA_TRAKRECORD
TRAKRECORD
TRNSATS05
zzADMSINTDBS27\TWENTYSEVEN2008
zzADMSITSDB16_SIXTEEN2005_APRLANDREC

Geometry Data Type

(SQL Server's native spatial data type)

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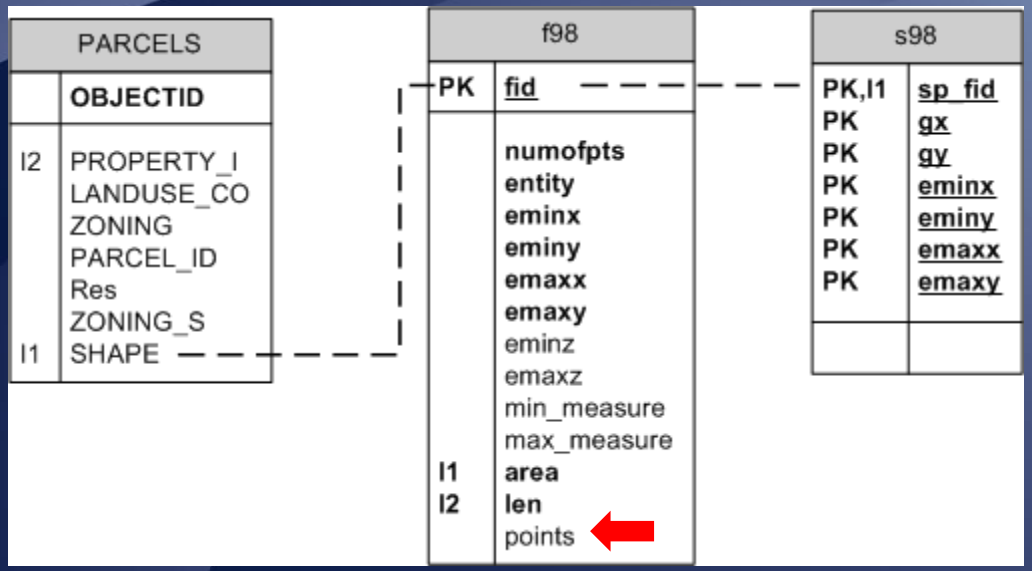
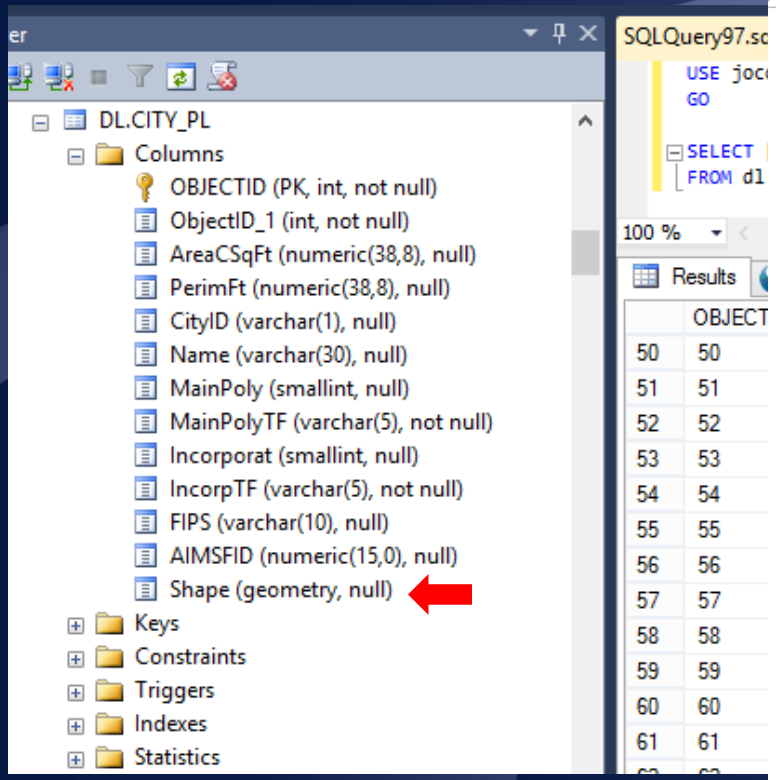
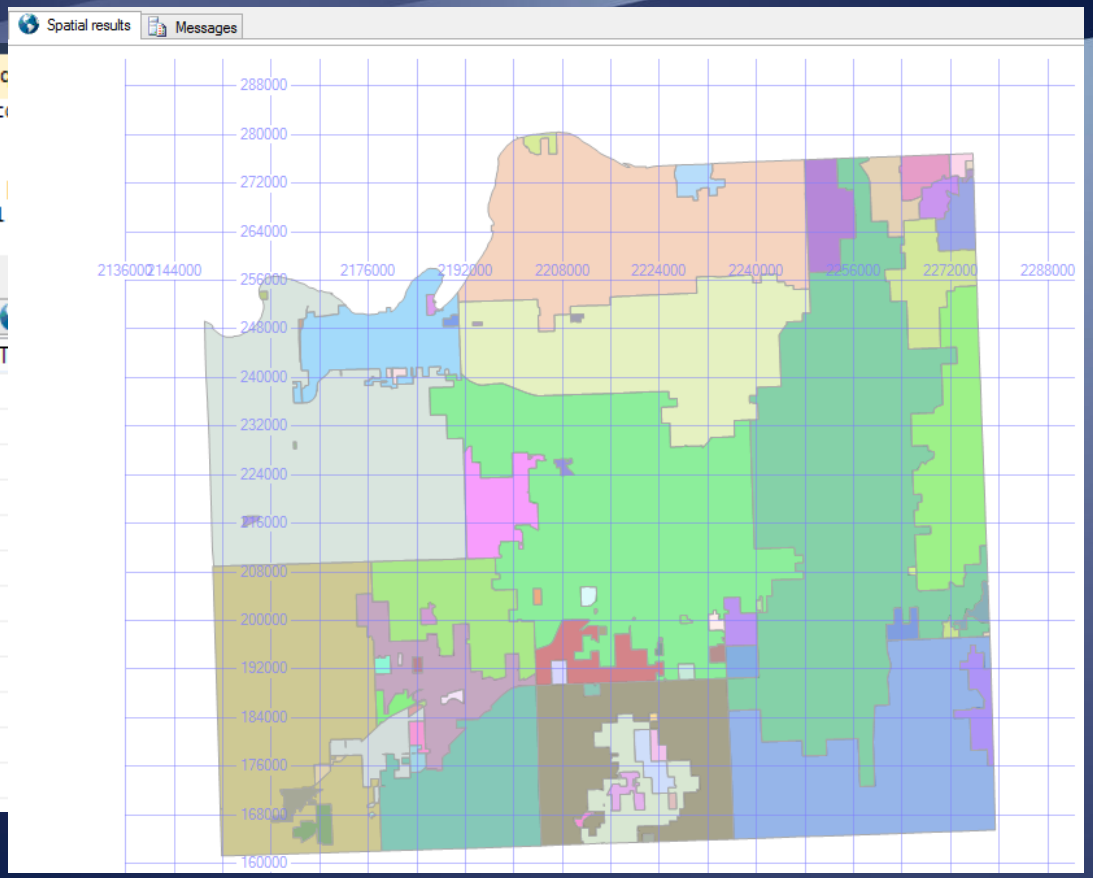
- **SDE Binary**



- **Editing Feature Classes**

•SQL Server's native spatial data type (geometry)





•Published Feature Classes (current)

•Archived Feature Classes (mrp and ss)

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SQL Server Spatial Summary

OVERVIEW

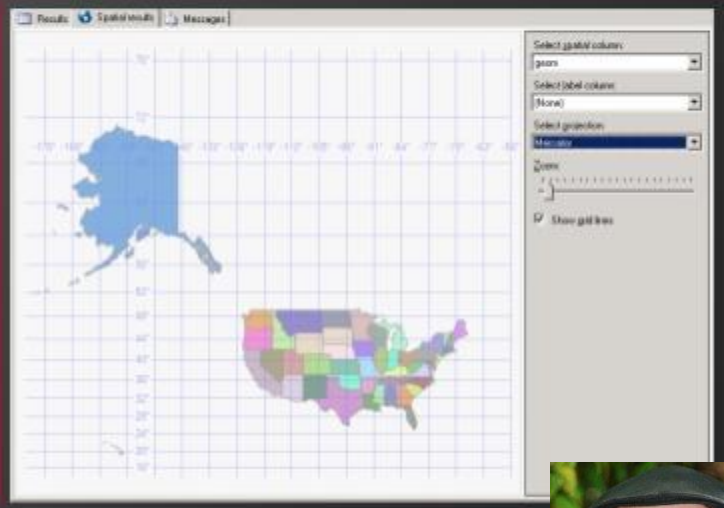
- 2 Spatial Data Types (CLR UDT)
- Comprehensive set of Spatial Methods
- High Performance Spatial Indexes
- Spatial Industry Standards Support
- Spatial Library
- Management Studio Integration
- Cloud-enabled

FEATURES

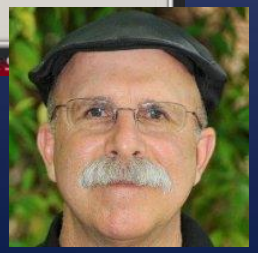
- 2D Vector Data Support
- Open Geospatial Consortium Simple Features for SQL compatible
- Supported By Major GIS Vendors
  ESRI, Intergraph, Autodesk, Pitney Bowes, Safe, etc.
- Standard feature in all SQL Server Editions
- Support for very large spatial objects (2GB)
- Supported in SS Reporting Services
- Redistributable Spatial Library

DETAILS

- Geography data type for geodetic data
- Geometry data type for planar data
- Standard spatial methods
  STIntersects, STBuffer, STLength, STArea, etc.
- Standard spatial format support (WKT, WBK, GML)
- Multiple spatial indexes per column
- Multiple spatial columns per table
- Create new CLR-based spatial functions with the Sink/Builder APIs
- SQL Azure Spatial support
- Support for circular (curve) spatial objects
- Support for full globe geography objects
- Optimized performance for the sphere



Ed Katibah,



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SQL Server Spatial Methods

(Database Geoprocessing)

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STArea

STBuffer
STCentroid
STContains

STDistance

STIntersects

STLength

STOverlaps

STWithin

OGC Methods on Geometry Instances

- STArea (geometry Data Type)
- STAsBinary (geometry Data Type)
- STAsText (geometry Data Type)
- STBoundary (geometry Data Type)
- STBuffer (geometry Data Type)
- STCentroid (geometry Data Type)
- STContains (geometry Data Type)
- STConvexHull (geometry Data Type)
- STCrosses (geometry Data Type)
- STDifference (geometry Data Type)
- STDimension (geometry Data Type)
- STDisjoint (geometry Data Type)
- STDistance (geometry Data Type)
- STEndpoint (geometry Data Type)
- STEnvelope (geometry Data Type)
- STEquals (geometry Data Type)
- STExteriorRing (geometry Data Type)
- STGeometryN (geometry Data Type)
- STGeometryType (geometry Data Type)
- STInteriorRingN (geometry Data Type)
- STIntersection (geometry Data Type)
- STIntersects (geometry Data Type)
- STIsClosed (geometry Data Type)
- STIsEmpty (geometry Data Type)
- STIsRing (geometry Data Type)
- STIsSimple (geometry Data Type)
- STIsValid (geometry Data Type)
- STLength (geometry Data Type)
- STNumGeometries (geometry Data Type)
- STNumInteriorRing (geometry Data Type)
- STNumPoints (geometry Data Type)
- STOverlaps (geometry Data Type)
- STPointN (geometry Data Type)
- STPointOnSurface (geometry Data Type)
- STRelate (geometry Data Type)
- STSrid (geometry Data Type)
- STStartPoint (geometry Data Type)
- STSymDifference (geometry Data Type)
- STTouches (geometry Data Type)
- STUnion (geometry Data Type)
- STWithin (geometry Data Type)
- STX (geometry Data Type)
- STY (geometry Data Type)

OGC Static Geometry Methods

- STGeomFromText (geometry Data Type)
- STPointFromText (geometry Data Type)
- STLineFromText (geometry Data Type)
- STPolyFromText (geometry Data Type)
- STMPointFromText (geometry Data Type)
- STMLineFromText (geometry Data Type)
- STMPolyFromText (geometry Data Type)
- STGeomCollFromText (geometry Data Type)
- STGeomCollFromWKB (geometry Data Type)
- STGeomFromWKB (geometry Data Type)
- STPointFromWKB (geometry Data Type)
- STLineFromWKB (geometry Data Type)
- STPolyFromWKB (geometry Data Type)
- STMPointFromWKB (geometry Data Type)
- STMLineFromWKB (geometry Data Type)
- STMPolyFromWKB (geometry Data Type)

SQL Server
Spatial Methods

```sql
-- Retrieve all addresses within 500' of a school point ...
SELECT a.MailAddLine, a.City, a.State, a.Zip
FROM DL.AddressXL_PT a
INNER JOIN DL.School_PT b
ON b.shape.STBuffer(500).STIntersects(a.shape) = 1

-- Buffer each polling place by 250' ...
SELECT ROW_NUMBER() OVER(ORDER BY PPID) AS RowNum,
PPID, Status,
aimsAppProd.dbo.InitCap(Description) AS Description,
City, State, Zip,
APID, spX, spY, Longitude, Latitude,
GEOMETRY::Point(spX, spY, 3419).STBuffer(250) AS SHAPE
FROM aimsAppProd.dbo.elcPollingPlace

-- Calculate the percentage of the JoCo population that lives within 3 miles of a library ...
DECLARE @libBuf GEOMETRY = GEOMETRY::STGeomFromText('Polygon Empty', 3419),
    @totPop1 float, @servPop1 float,
    @totPop2 float, @servPop2 float
--Union to get a single 3 mile buffer polygon of libraries
SELECT @libBuf = @libBuf.STUnion(SHAPE.STBuffer(3*5280))
    from DL.Library_PT
    WHERE NAME NOT LIKE '%Olathe%'
--Get the total population
SELECT @totPop1 = SUM(Occupants)
    FROM DL.POPULATIONMODEL1_PT
--Get the service area population
SELECT @servPop1 = SUM(Occupants)
    FROM DL.POPULATIONMODEL1_PT
    WHERE Shape.STIntersects(@libBuf) = 1
--Report the results
SELECT 'PopulationModel1' as src, @servPop1 as ServPop, @totPop1 as TotalPop, (@servPop1/@totPop1)*100 as PercentServed
```

Retrieve all addresses within 500' of a school

Buffer each polling place by 250'

Calculate the % of population that lives Within 3 miles of a library

100 %

Results | Spatial results | Messages

4	6100 MONTICELLO RD	Shawnee	KS	66226
5	10120 LEXINGTON AVE	De Soto	KS	66018
6	6220 MARTWAY ST APT 201	Mission	KS	66202
7	6500 MARTWAY ST	Mission	KS	66202
8	5940 LAMAR AVE	Mission	KS	66202

Retrieve all addresses within 500' of a school

Buffer each polling place by 250'

	RowNum	PPID	Status	Description	City	State	Zip	APID	spX	spY	Longitude	Latitude	SHAPE
1	1	1943	A	Center Of Grace	OLATHE	KS	66061	20030815094657695 1	2218889	212999	-94.8151210000	38.8743880000	0x5B0D000001048100000000000008
2	2	1945	A	Lakeview Village	Lenexa	KS	66215	20031114014612197 7	2237450	246014	-94.7458000000	38.9631670000	0x5B0D000001048100000000000000
3	3	1946	A	Lenexa Methodist Church	Lenexa	KS	66215	20031114014627227 2	2239204	245814	-94.7396620000	38.9624450000	0x5B0D000001048100000000000000
4	4	1947	A	Merriam City Hall	Merriam	KS	66202	20030225135813238 4	2252601	266068	-94.6899780000	39.0166840000	0x5B0D000001048100000000000008
5	5	1949	A	Monticello Trail Middle ...	SHAW...	KS	66226	20030430083152463 4	2209705	264775	-94.8410180000	39.0173420000	0x5B0D000001048100000000000008
6	6	1950	A	Old Mission Methodist Ch	Fairway	KS	66205	20030225135816478 0	2271056	271418	-94.6243680000	39.0294930000	0x5B0D000001048100000000000000
7	7	1953	A	Oak Park Library	Overla...	KS	66214	19900000000001161 3	2247076	243771	-94.7122570000	38.9560600000	0x5B0D000001048100000000000000
8	8	1954	A	Op Retirement Place	Overla...	KS	66204	20030000000010548 6	2260743	257476	-94.6634590000	38.9922890000	0x5B0D000001048100000000000000

	src	ServPop	TotalPop	PercentServed
1	PopulationModel1	455508.81121072	567987.81070428	80.1969342697529

Calculate the % of population that lives Within 3 miles of a library

JOHNSON COUNTY KANSAS

Jobs | Contact | Departments | Employees | Media | Maps

HOME | RESIDENTS | BUSINESS | GOVERNMENT | RECREATION | ENVIRONMENT | HEALTH

Search for: 11812 W 78TH TER GO

enter address, property id, owner name, or kupn

Results for 11812 W 78TH TER (IP08900000 0075)

[Create Plot Plan] | [Driving Directions]

Welcome Steve | Link | Mobile | Disclaimer | Help

General Information [Collapse All]

Property ID:	IP08900000 0075
Site Address:	11812 W 78TH TER Lenexa, KS 66214
Legal Description:	CEDAR VALLEY LT 75 LEC 12A 75
Block/Lot:	0000 /0075
Subdivision:	CEDAR VALLEY
Plat:	CEDAR VALLEY (LTS 29-82)
Plat Book/Page:	0043/0023
Plat Recorded:	1978
KS Uniform Parcel Num.:	0460562303002015000

Owner Information

Specials Information

Location Information

Elected Officials

Property Description

School Information

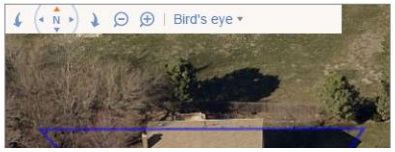
Stormwater/Flood Information

Tax Information

Utility Information

Voting Information

Census Information



Nearest*

Fire Station:	Shawnee, Stn 1 - 6535 QUIVIRA RD (1.7 miles)
Fire Hydrant:	138.8 feet (WaterOne)
Library:	Central Resource - 9875 W 87th St (1.6 miles)
Post Office Branch:	Lenexa - 8820 Monrovia St (1.3 miles)
Park:	Matt Taylor - 12650 W 82ND TER (0.6 miles)
Recreation Trail:	Trail Ridge Middle School Loop Walk (1818.7 feet)
Flood Designation:	AE (2514.9 feet)

* Nearest is represented as the straight line (or shortest) distance between the address or center of the parcel and the feature. It does not measure street distance. To get driving distance, click the linked address.

Nearest*

Fire Station:	Shawnee, Stn 1 - 6535 QUIVIRA RD (1.7 miles)
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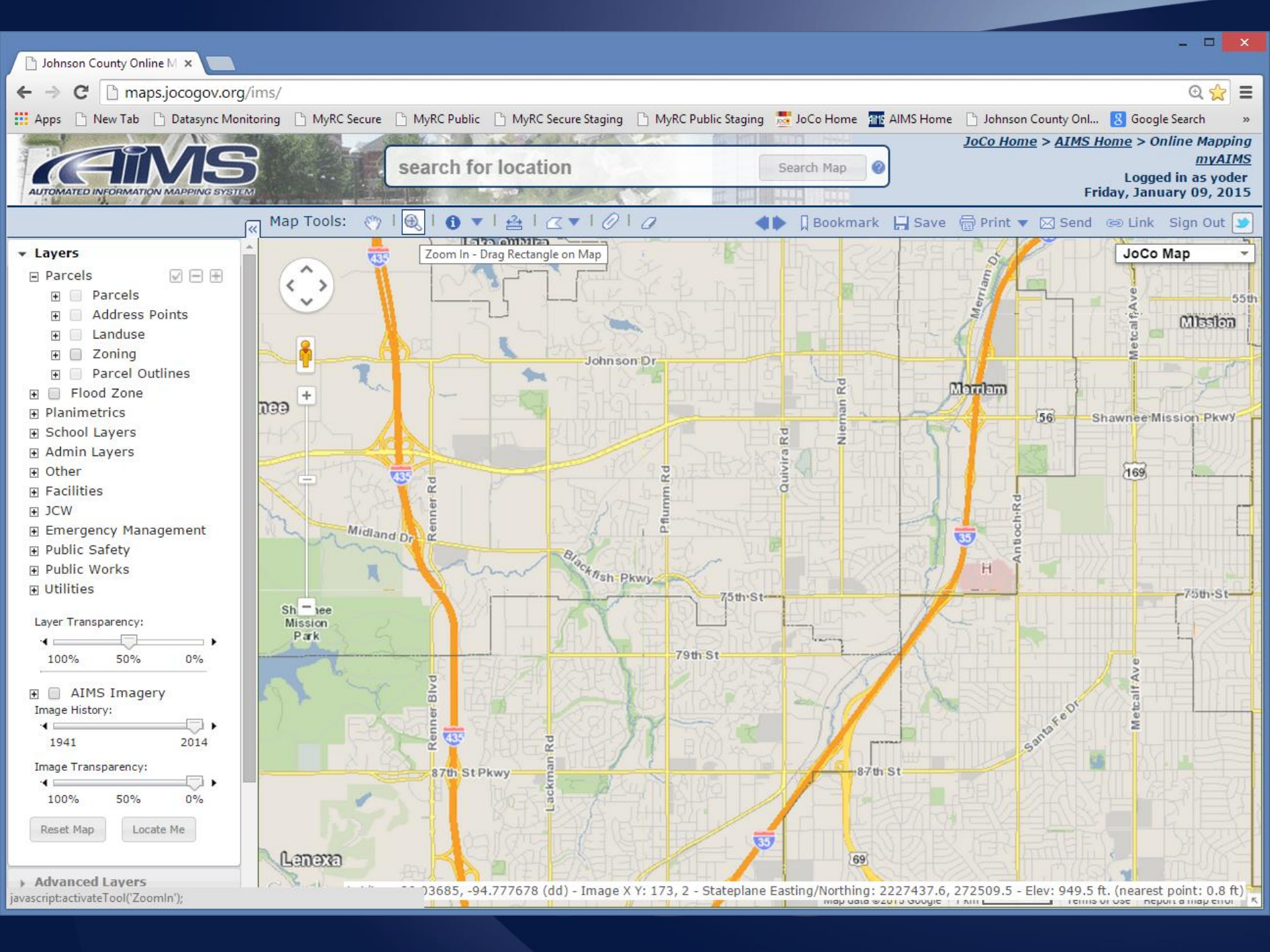
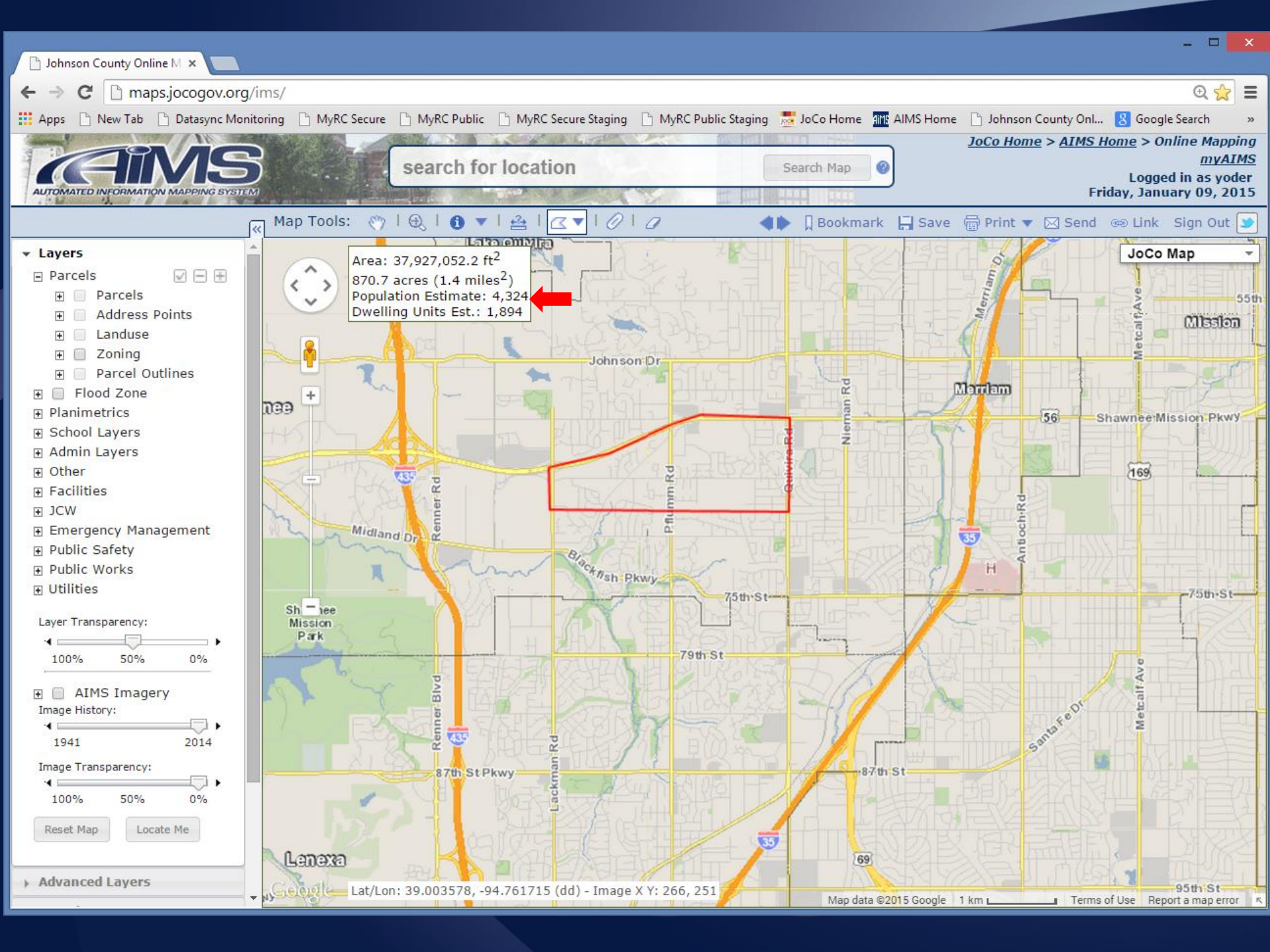

Johnson County Online M
maps.jocogov.org/ims/
Apps
New Tab
Datasync Monitoring
MyRC Secure
MyRC Public
MyRC Secure Staging
MyRC Public Staging
JoCo Home
AIMS Home
Johnson County Onl...
Google Search
AIMS
AUTOMATED INFORMATION MAPPING SYSTEM
search for location
Search Map
JoCo Home > AIMS Home > Online Mapping
myAIMS
Logged in as yoder
Friday, January 09, 2015
Map Tools:
Bookmark
Save
Print
Send
Link
Sign Out
Zoom In - Drag Rectangle on Map
JoCo Map
Layers
Parcels
Parcels
Address Points
Landuse
Zoning
Parcel Outlines
Flood Zone
Planimetrics
School Layers
Admin Layers
Other
Facilities
JCW
Emergency Management
Public Safety
Public Works
Utilities
Layer Transparency:
100%
50%
0%
AIMS Imagery
Image History:
1941
2014
Image Transparency:
100%
50%
0%
Reset Map
Locate Me
Advanced Layers
Johnson Dr
Merriam
Shawnee Mission Pkwy
Midland Dr
Renner Rd
Pflumm Rd
Quivira Rd
Nieman Rd
Antioch Rd
Blackfish Pkwy
75th St
79th St
87th St Pkwy
87th St
Renner Blvd
Lackman Rd
Santa Fe Dr
Metcalf Ave
Merriam Dr
55th
Mission
Lenexa
Mission Park
435
35
56
169
69
-94.777678 (dd) - Image X Y: 173, 2 - Stateplane Easting/Northing: 2227437.6, 272509.5 - Elev: 949.5 ft. (nearest point: 0.8 ft)
javascript:activateTool('ZoomIn');


Johnson County Online M
maps.jocogov.org/ims/
Apps
New Tab
Datasync Monitoring
MyRC Secure
MyRC Public
MyRC Secure Staging
MyRC Public Staging
JoCo Home
AIMS Home
Johnson County Onl...
Google Search
AIMS
AUTOMATED INFORMATION MAPPING SYSTEM
search for location
Search Map
JoCo Home > AIMS Home > Online Mapping
myAIMS
Logged in as yoder
Friday, January 09, 2015
Map Tools:
Bookmark
Save
Print
Send
Link
Sign Out
Layers
Parcels
Parcels
Address Points
Landuse
Zoning
Parcel Outlines
Flood Zone
Planimetrics
School Layers
Admin Layers
Other
Facilities
JCW
Emergency Management
Public Safety
Public Works
Utilities
Layer Transparency:
100%
50%
0%
AIMS Imagery
Image History:
1941
2014
Image Transparency:
100%
50%
0%
Reset Map
Locate Me
Advanced Layers
Area: 37,927,052.2 ft2
870.7 acres (1.4 miles2)
Population Estimate: 4,324
Dwelling Units Est.: 1,894
JoCo Map
Johnson Dr
Merriam
Mission
Shawnee Mission Pkwy
Midland Dr
Renner Rd
Pflumm Rd
Quivira Rd
Nieman Rd
Antioch Rd
Metcalf Ave
Merriam Dr
Blackfish Pkwy
75th St
79th St
87th St
87th St Pkwy
Renner Blvd
Lackman Rd
Santa Fe Dr
95th St
55th
Lenexa
Lat/Lon: 39.003578, -94.761715 (dd) - Image X Y: 266, 251
Map data ©2015 Google
1 km
Terms of Use
Report a map error

Database Projections

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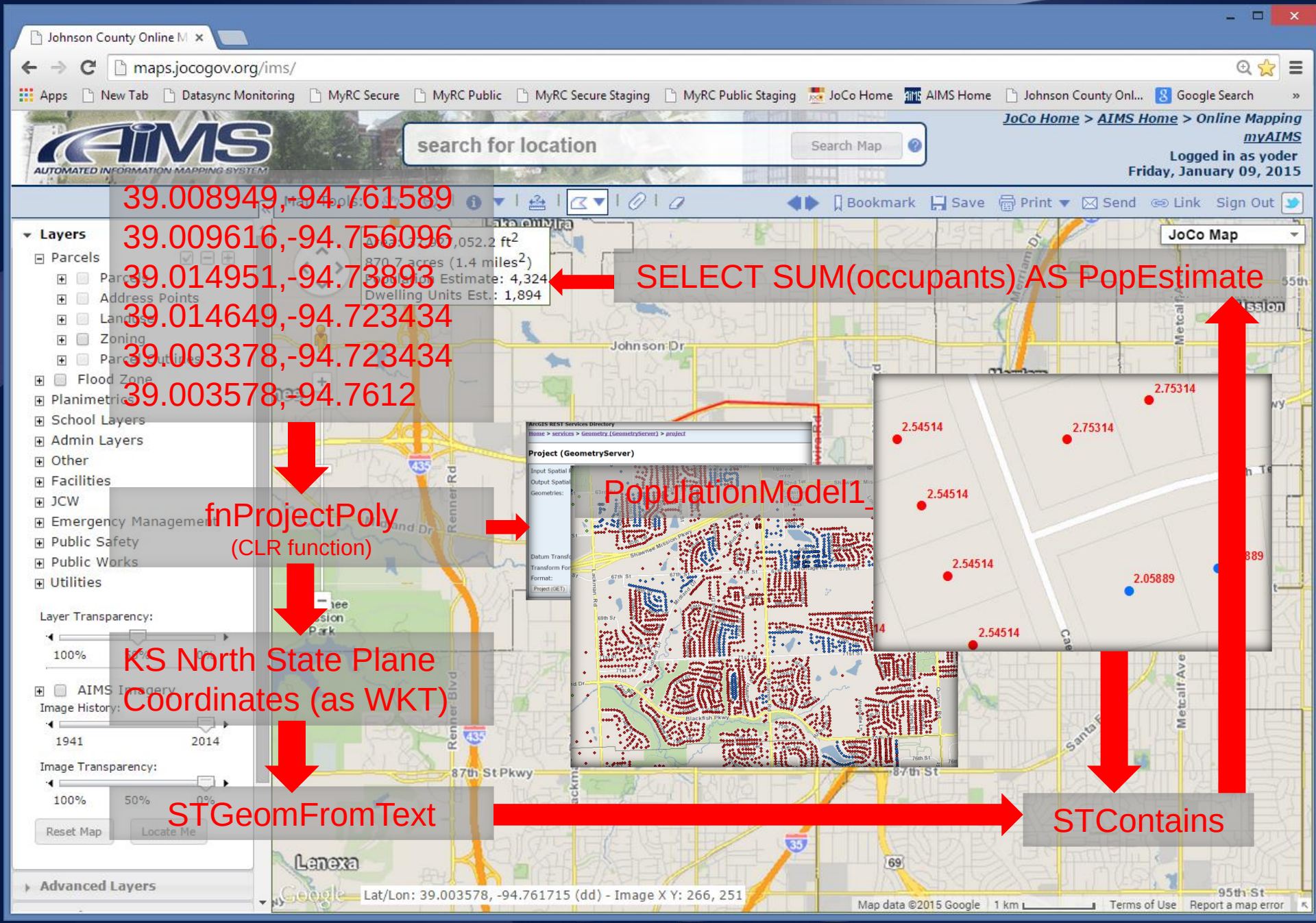
39.008949,-94.761589
39.009616,-94.756096
39.014951,-94.73893
39.014649,-94.723434
39.003378,-94.723434
39.003578,-94.7612
SELECT SUM(occupants) AS PopEstimate
fnProjectPoly
(CLR function)
PopulationModel1
KS North State Plane
Coordinates (as WKT)
STGeomFromText
STContains
Johnson County Online M
maps.jocogov.org/ims/
Apps
New Tab
Datasync Monitoring
MyRC Secure
MyRC Public
MyRC Secure Staging
MyRC Public Staging
JoCo Home
AIMS Home
Johnson County Onl...
Google Search
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AUTOMATED INFORMATION MAPPING SYSTEM
search for location
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Friday, January 09, 2015
Bookmark
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Layers
Parcels
Address Points
Zoning
Flood Zone
Planimetrics
School Layers
Admin Layers
Other
Facilities
JCW
Emergency Management
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Advanced Layers
Lake Quivira
Johnson Dr
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87th St
Lenexa
Metcalf Ave
Santa Fe
95th St
Project (GeometryServer)
2.75314
2.54514
2.75314
2.54514
2.54514
2.05889
2.54514
Lat/Lon: 39.003578, -94.761715 (dd) - Image X Y: 266, 251
Map data ©2015 Google
1 km
Terms of Use
Report a map error

Database Geocoding

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SQLQuery99.sql -...SONCO\YODER (63))* | UsefnGeocode.sql...ONCO\YODER (248)) | SQLQuery96.sql -...ONCO\YODER (656))* | RnD.sql - admsai...ON

```
SELECT FirstName, LastName, HomeAddress AS AddressLine1, HomeCity AS City, HomeState AS [State], CAST(HomeZip AS VARCHAR(5)) AS Zip
FROM aimsEmployees
WHERE Active = 1;
```

100 %

SQLQuery99.sql -...SONCO\YODER (63))* | UsefnGeocode.sql...ONCO\YODER (248)) | SQLQuery96.sql -...ONCO\YODER (656))* | RnD.sql - admsai...ONCO\YODER

```
WITH a AS
    (
    SELECT FirstName, LastName, HomeAddress AS AddressLine1, HomeCity AS City, HomeState AS [State], CAST(HomeZip AS VARCHAR(5)) AS Zip
    FROM aimsEmployees
    WHERE Active = 1
    )
SELECT CAST(ROW_NUMBER() OVER(ORDER BY a.LastName, a.FirstName) AS INT) AS RcdNum,
a.FirstName, a.LastName, a.AddressLine1, a.City, a.[State], a.Zip, b.LocationGeom, b.LocationGeog
FROM a
OUTER APPLY addrep.dbo.fnGeocode(COALESCE(AddressLine1, ''), NULL, NULL, NULL, NULL, NULL, NULL, NULL, City, State, Zip, 1, 55, 0, 1) b
```

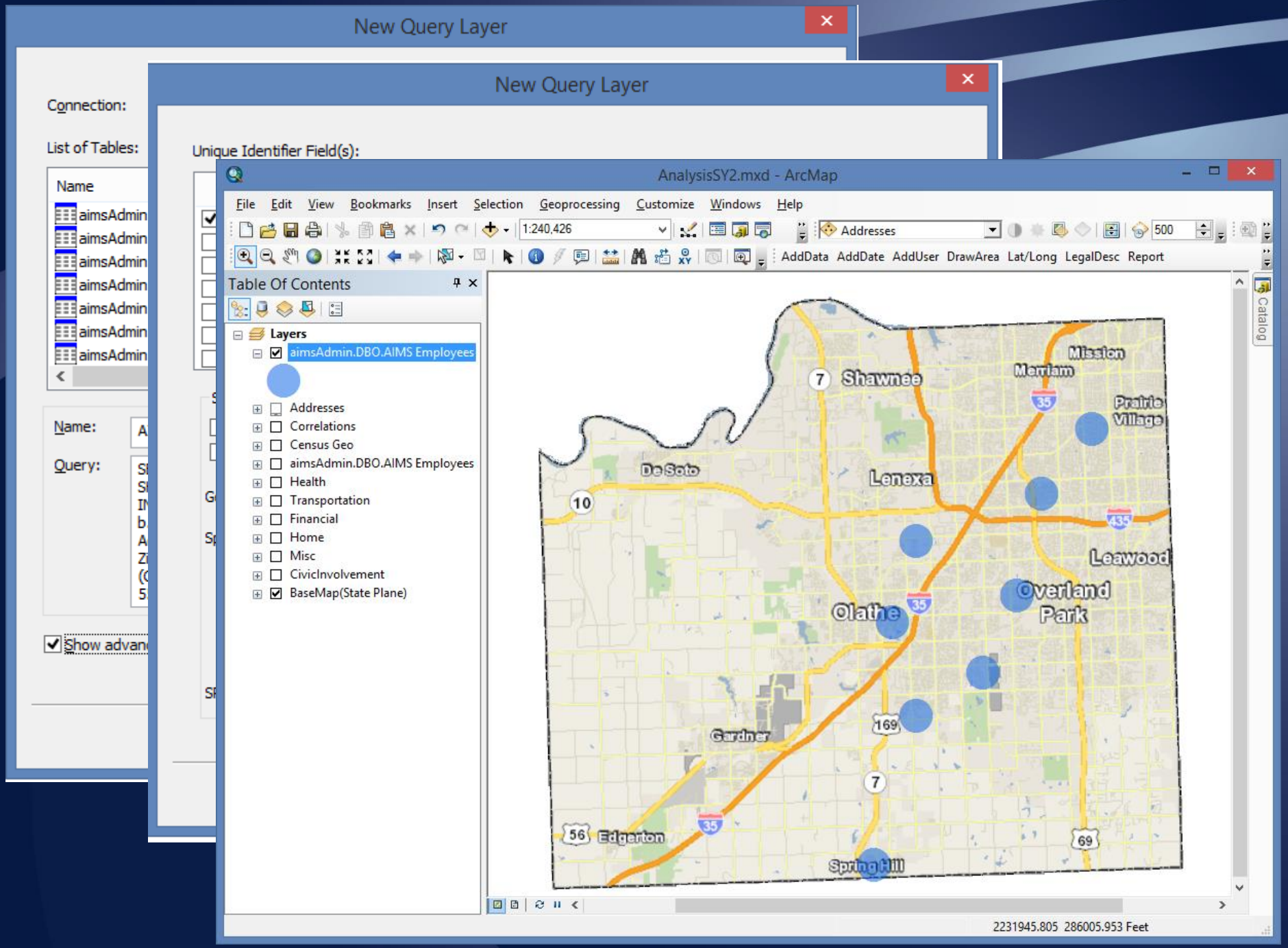
MinScore

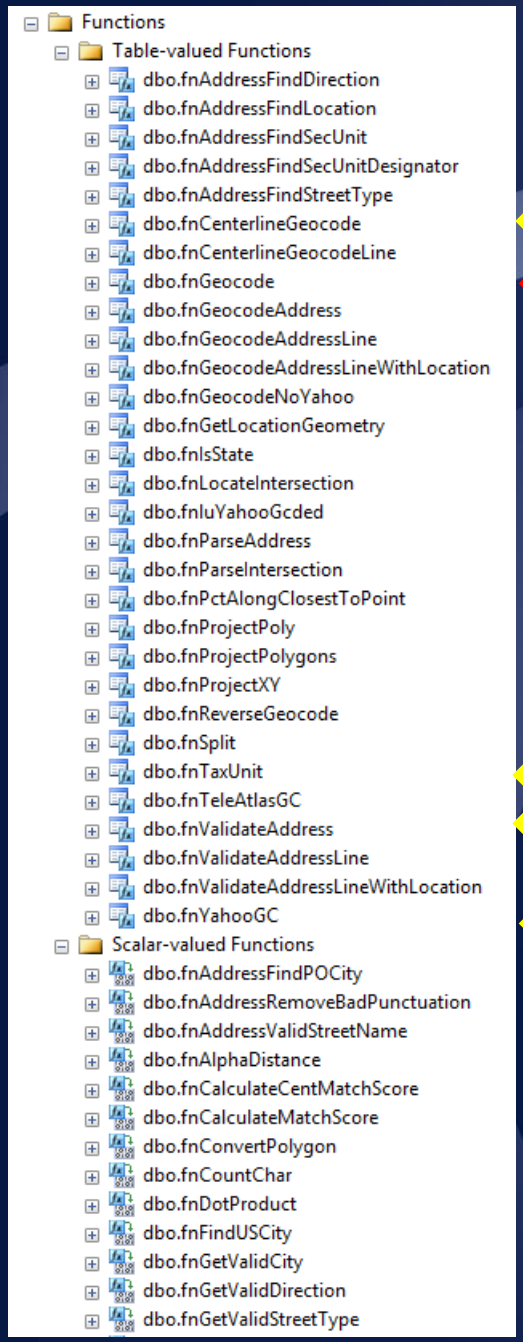
GeocodeOption

100 %

Results | Spatial results | Messages

	RcdNum	FirstName	LastName	AddressLine1	City	State	Zip	LocationGeom	LocationGeog
1	1	Aaron	Baumgarden	1000 W. 84th St	Kansas City	MO	64114	NULL	0xE6100000010
2	2	Ryan	Geiter	15313 S Widmer St	Olathe	KS	66061	0x5B0D0000010C00000080061541410000000020090941	0xE6100000010
3	3	Jay	Heermann	6712 NW Overland Dr	Kansas City	MO	64151	NULL	0xE6100000010
4	4	Jason	Hrabe	17527 W 111th Ter	Olathe	KS	66061	0x5B0D0000010C00000080B7FA40410000000088490C41	0xE6100000010
5	5	Shannon	Porter	559 E Loula	Olathe	KS	66061	0x5B0D0000010C0000008025F140410000000050460A41	0xE6100000010
6	6	Keith	Shaw	207 W Lawrence St	Spring Hill	KS	66083	0x5B0D0000010C00000000D4E9404100000000C0420441	0xE6100000010
7	7	Meg	Shoffner	6508 W 80th St	Overland Park	KS	66204	0x5B0D0000010C000000005E4041410000000010120F41	0xE6100000010
8	8	Dan	Steen	12878 Bond St	Overland Park	KS	66213	0x5B0D0000010C00000000A72241410000000070F00A41	0xE6100000010
9	9	Jerry	Swingle	9805 W. 99 Ter.	Overland Park	KS	66212	0x5B0D0000010C00000000652C41410000000000770D41	0xE6100000010
10	10	Travis	Wagner	16562 S Lawson St	Olathe	KS	66062	0x5B0D0000010C000000807CFA40410000000028F70741	0xE6100000010
11	11	Steve	Yoder	4612 Trail Road	Lawrence	KS	66049	NULL	0xE6100000010


New Query Layer
Connection:
List of Tables:
Name
aimsAdmin
Name:
Query:
Show advan
New Query Layer
Unique Identifier Field(s):
AnalysisSY2.mxd - ArcMap
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:240,426
Addresses
500
AddData AddDate AddUser DrawArea Lat/Long LegalDesc Report
Table Of Contents
Layers
aimsAdmin.DBO.AIMS Employees
Addresses
Correlations
Census Geo
aimsAdmin.DBO.AIMS Employees
Health
Transportation
Financial
Home
Misc
CivicInvolvement
BaseMap(State Plane)
Shawnee
Mission
Merriam
Prairie Village
De Soto
Lenexa
Leawood
Overland Park
Olathe
Gardner
Edgerton
Spring Hill
Catalog
2231945.805 286005.953 Feet



← fnCenterlineGeocode
← fnGeocode (Parent)

← fnTeleAtlasGC (CLR function)
← fnValidateAddress (Address Points)

← fnYahooGC (CLR function)

aims.jocogov.org

AIMSAddressWebService

A web service to search and validate Johnson County Kansas addresses

The following operations are supported. For a formal definition, please review the Service Description.

- **GeneralSearch**
  Searches for an address using address, centerline and outside sources and returns up to 100 matches.
- **GeocodeAddressWithCity**
  Geocodes the address against a variety of sources to get a match. This looks outside the county to find a match if needed.
- **GetCityDomain**
  Get the domain of city names.
- **GetDirectionDomain**
  Get the domain of street directions.
- **GetParsedAddress**
  Get a parsed address from an address string.
- **GetSecUnitDesDomain**
  Get the domain of secondary unit designators.
- **GetStreetNameDomain**
  Get the domain of street names.
- **GetStreetTypeDomain**
  Get the domain of street types.
- **GetTopMatches**
  Get the top 250 matches to an address string. This is a very general search that will return similar addresses sorted by their rank score. Use it to give possibilities to the user.
- **GetZipCodeDomain**
  Get the domain of ZIP codes.
- **LookupTaxPropertyID**
  Lookup the Tax Property ID of an address.
- **LookupTaxUnitDMV**
  Lookup the Tax Unit used by the DMV of an address.
- **ValidateAddressAPIDAjax**
  Validates an address APID and returns matching records.
- **ValidateAddressLine**
  Validates an address string and returns matching records.
- **ValidateAddressLineAjax**
  Validates an address string and returns matching records.
- **ValidateAddressLineAjax2**
  Validates an address string and returns matching records.
- **ValidateAddressLineAjax3**
  Validates an address string and returns matching records. Addressline returned as name, APID returned as value
- **ValidateAddressLineJoCoAjax**
  Validates an address string and returns matching records for Johnson County only.
- **ValidateAddressWithCity**
  Validates an address string plus a city, state, zip combination and returns matching records. This may give more accurate results than the ValidateAddressLine.
- **ValidateAddressWithLocation**
  Validates an atomized address and returns matching records. Use this method for more accurate results.
- **ValidateAddressWithoutLocation**
  Validates an atomized address without city, state or zip and returns matching records. Use this method for more accurate results.

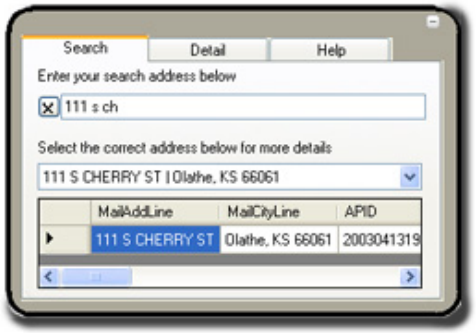
Address Search Utilities

AIMS offers 3 unique tools to query the Johnson County address database to locate and validate Johnson County Addresses. The Desktop and Online Utilities allow users to search and validate a single address while the Batch Utility allows for the validation of multiple addresses at one time. All these applications are examples of how the Address Web Service can be utilized and integrated into other applications and programs.

Desktop Utility

This application can be downloaded and installed directly on the desktop. A small icon will appear in the tray in the lower right of the desktop and can be accessed at anytime while other applications are running. As a user types an address, a drop downlist will be populated with possible matches. Once an address is found and selected, additional information is provided and the address is copied to the clipboard for use in other applications like forms and spreadsheets or databases.

Install the Desktop Service



Online Utility

This application is a simple online tool that allows users to validate a single address. Like the desktop version, this tool will populate a drop down list of 250 probable matches as the user types. Once an address is selected, additional property information will be provided and the address will be automatically copied to the clipboard for use in other applications.

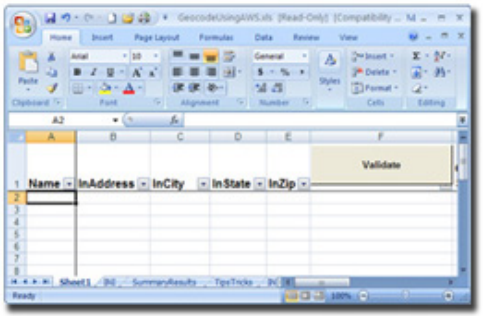
This tool was built to be integrated into existing web pages to automate the completion of web forms with address data using a simple query string.

Use the Online Service

Batch Utility

A formatted Excel template (compatible with Office 2003 and above) is available for download, allowing users to validate multiple addresses (up to 1000) at once. Users needing to validate more than 1000 addresses at one time will need to contact AIMS prior to use to obtain a security key. Enter an address or copy and paste multiple addresses into the appropriate columns in the spreadsheet, note the correct parameters (in the INI Tab), hit the validate button and get possible matches returned in the spreadsheet. This tool also returns the x,y and property id for each address matched.

Download the Excel Template



AIMS Homepage > myAIMS > Address Lookup

Enter your address here

11812

11812 ENGLAND ST | C
11812 GILLETTE ST | C
11812 OAKMONT ST |
11812 QUIVIRA RD | C
11812 ROE AVE | LEAV
11812 BROOKWOOD S
11812 S CARRIAGE RD
11812 S CHERRY LN |
11812 W 148TH ST | O
11812 W 149TH ST | O
11812 W 164TH PL | O
11812 W 70TH ST | SH
11812 W 72ND ST | SH
11812 W 78TH TER | L
11812 W 99TH TER | O
11812 S ALCAN ST | O
11812 PERRY ST # 801
11812 PERRY ST # 802

AUTOMATED INFORMATION MAPPING SYSTEM

AIMS Homepage > myAIMS > Address Lookup

Address Lookup

Enter your address here

11812 W 78TH TER | LENEXA, KS 66214

Address1	11812 W 78TH TER
Address2	Lenexa, KS 66214
TaxUnit - Current Tax Year	0604UW
TaxUnit - Previous Tax Year	0604UW
APID	200311140135361713
TaxPropID	IP08900000 0075
KUPN	0460562303002015000
Number	11812
Prefix Directional	W
Street Name	78TH
Street Type	TER
X	2243920
Y	254700
Latitude	38.9863579471
Longitude	-94.7219603996

Property | Location | School | Plat | Legal | Docs | Ut

Welcome Steve Logout

Image(s) View Obliques

03/12/2010

Truncate/Replace Data Publishing

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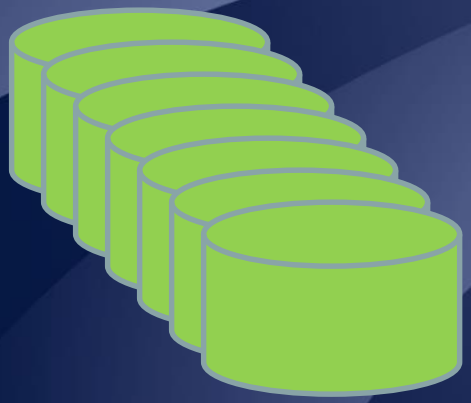
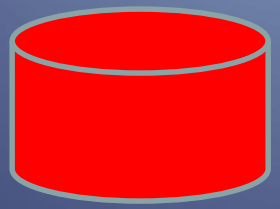
Editing FCs in Development Databases



Published FCs in jocoPub Database



Editing FCs in Development Databases

Published FCs in jocoPub Database

Editing FCs in Development Databases

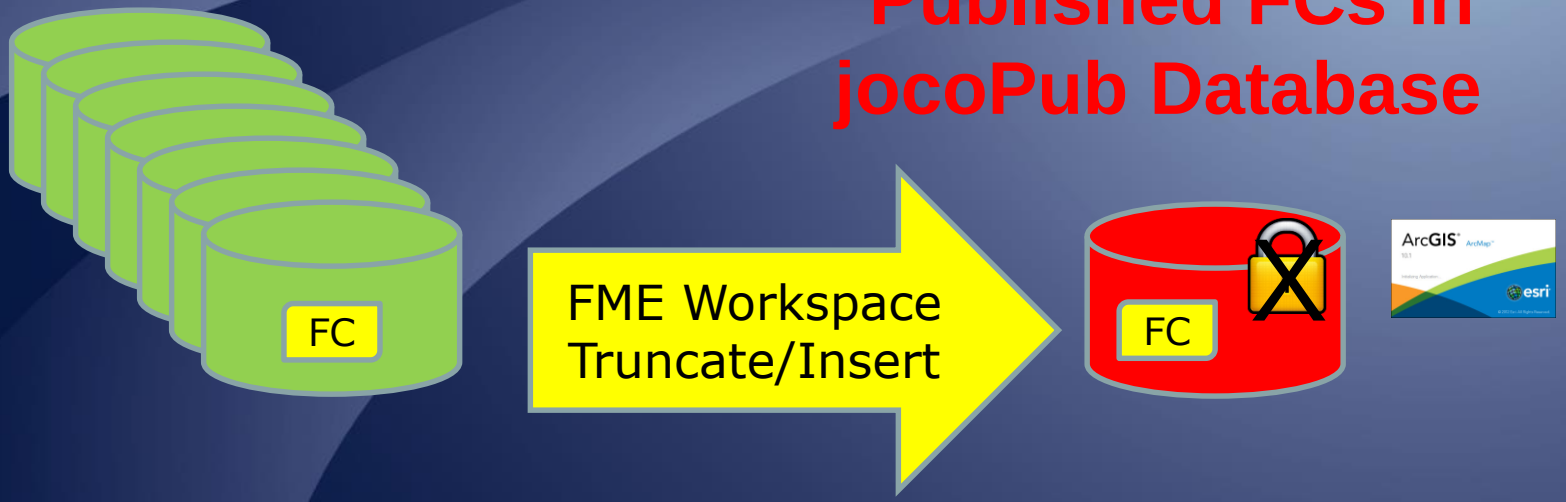
Published FCs in jocoPub Database

Editing FCs in Development Databases

Published FCs in jocoPub Database

Editing FCs in Development Databases

Published FCs in jocoPub Database



Locks are immaterial

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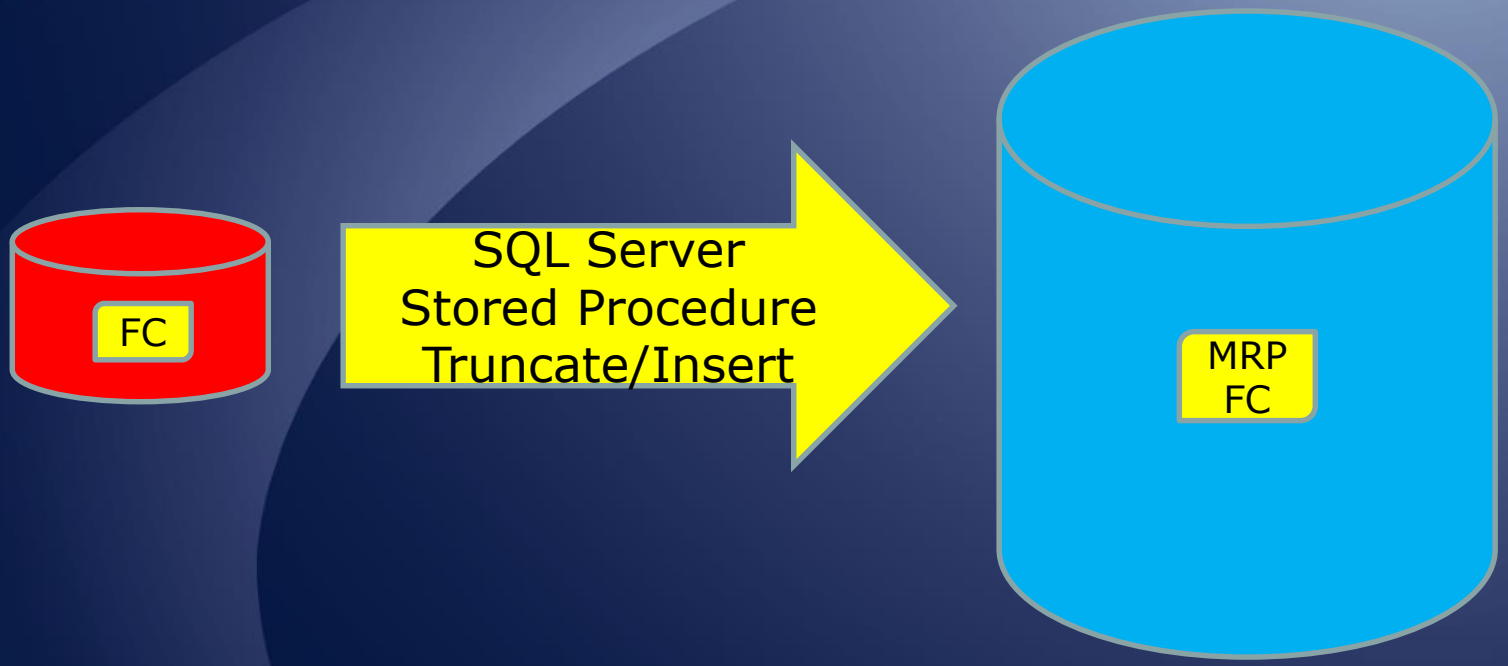
Published FCs in jocoPub Database

Archived FCs in jocoArchive Database



Huge time savings

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- Reading input parameters to a
  .py .fmw .exe .sql
  from a DB table

- Writing log data to a DB table

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```
        lyr = gp.MakeFeatureLayer_management(kwargs["InFeatureClass"], "InFeaturesLayer", kwargs["WhereClause"]).getOutput(0)
    else:
##      lyr = gp.MakeXYEventLayer_management(kwargs["InTable"], kwargs["InXField"], kwargs["InYField"], "InFeaturesEventLayer", kwargs["InXYSpatialRef"]).getoutput(
        if kwargs.has_key('InTableKeyFields') and kwargs['InTableKeyFields'] not in (None, '', ' ', '#'):
            # Changed getoutput to getOutput due to 10.0 changes 1/17/12
            qryTblLyr = gp.MakeQueryTable_management(kwargs["InTable"], "InQueryTableView", "USE_KEY_FIELDS", kwargs["InTableKeyFields"], "", kwargs["WhereClause"]).g
        else:
            # Changed getoutput to getOutput due to 10.0 changes 1/17/12
            qryTblLyr = gp.MakeQueryTable_management(kwargs["InTable"], "InQueryTableView", "NO_KEY_FIELD", "", "", kwargs["WhereClause"]).getOutput(0)
        # Changed getoutput to getOutput due to 10.0 changes 1/17/12
        lyr = gp.MakeXYEventLayer_management(qryTblLyr, kwargs["InXField"], kwargs["InYField"], "InFeaturesEventLayer", kwargs["InXYSpatialRef"]).getOutput(0)
    # Run the Kernel Density spatial analyst tool
    try:
        # Modified to remove output parameter.  10.0 does not accept output, which must be saved out later. 1/17/12
        # gp.KernelDensity_sa (lyr, kwargs["DensityField"], TmpOutput, kwargs["CellSize"], kwargs["SearchRadius"], kwargs["AreaUnits"])
        # outKernelDensity = KernelDensity(lyr, "NONE", 100, 2640, "SQUARE_MILES")

        # Set a new workspace, overriding the passed-down workspace
        #
        gp.env.workspace = "d:/temp/densityLayers"
        # gp.AddMessage("The new current workspace is: %s" % gp.env.workspace)

        # Print the passed-down current workspace environment setting
        #
        # gp.AddMessage("The passed-down current workspace is: %s" % gp.env.workspace)

        # Set the Geoprocesser to build pyramids.  Added 1/18/12


        outKernelDensity = gp.sa.KernelDensity(lyr, kwargs["DensityField"], kwargs["CellSize"], kwargs["SearchRadius"], kwargs["AreaUnits"])

        # Save output
        outKernelDensity.save(TmpOutput)

        gp.env.pyramid = "PYRAMIDS"
        gp.env.rasterStatistics = "STATISTICS"

        gp.BuildPyramids_management(TmpOutput)
        gp.CalculateStatistics_management(TmpOutput)
```

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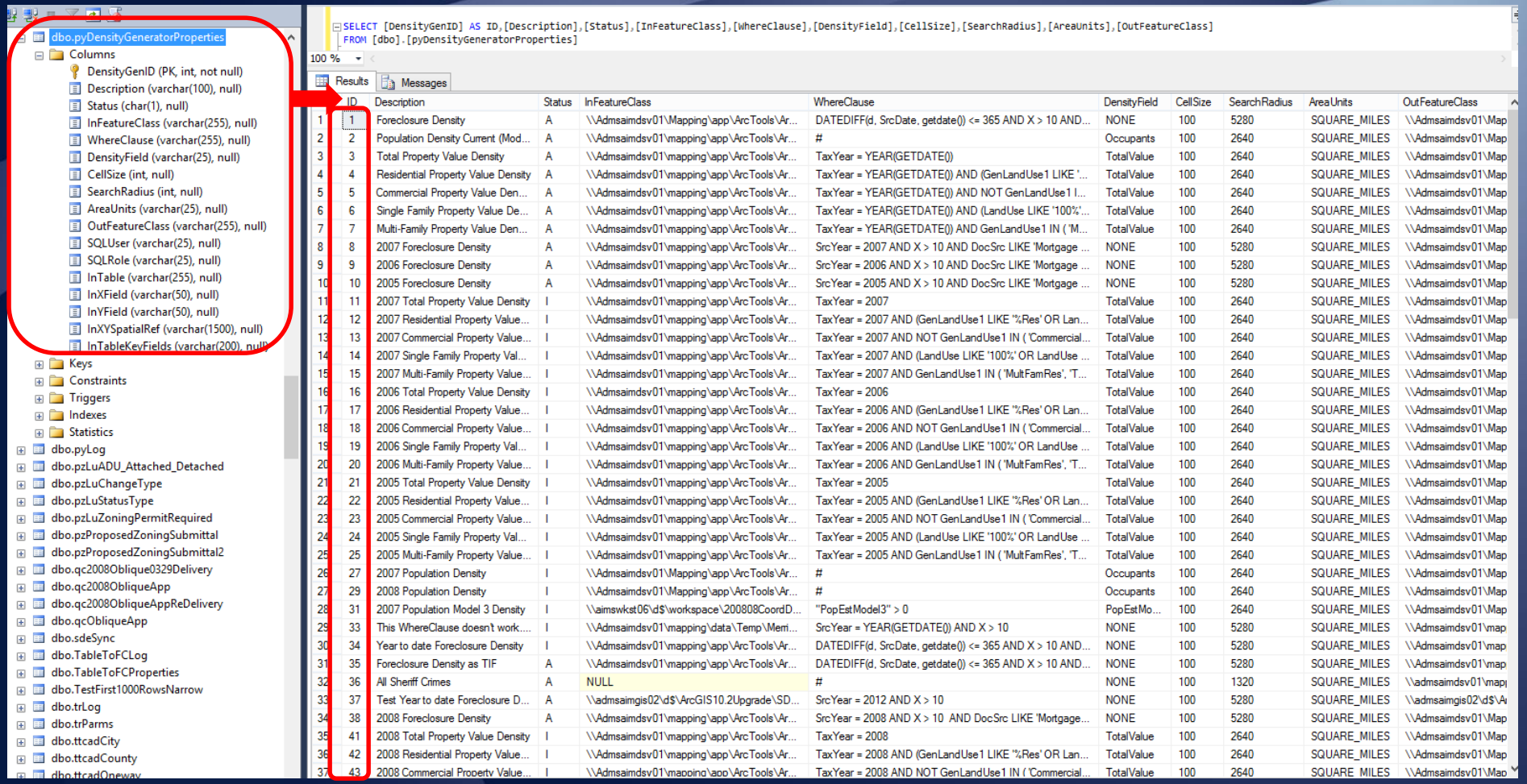
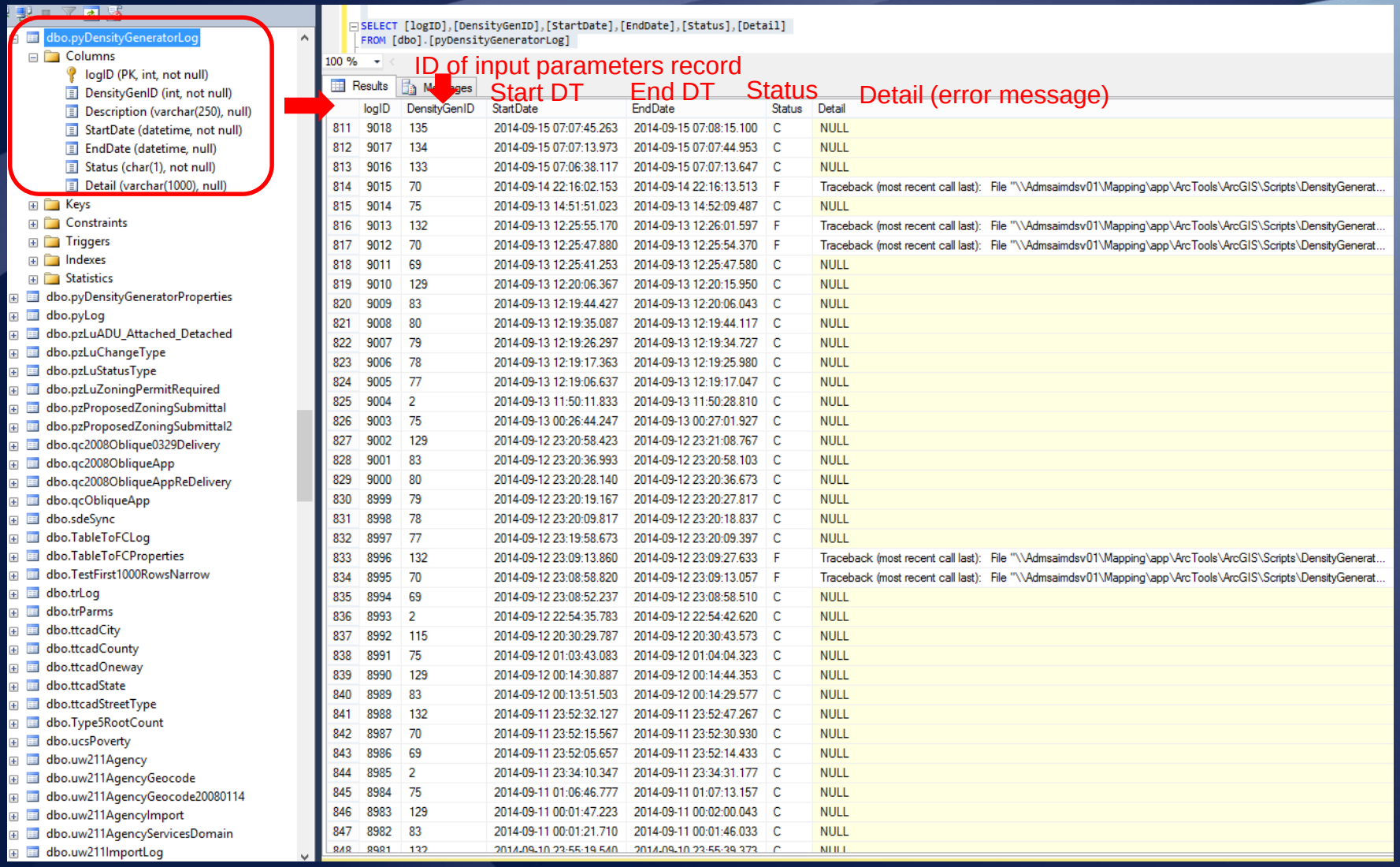
▶Reading input parameters

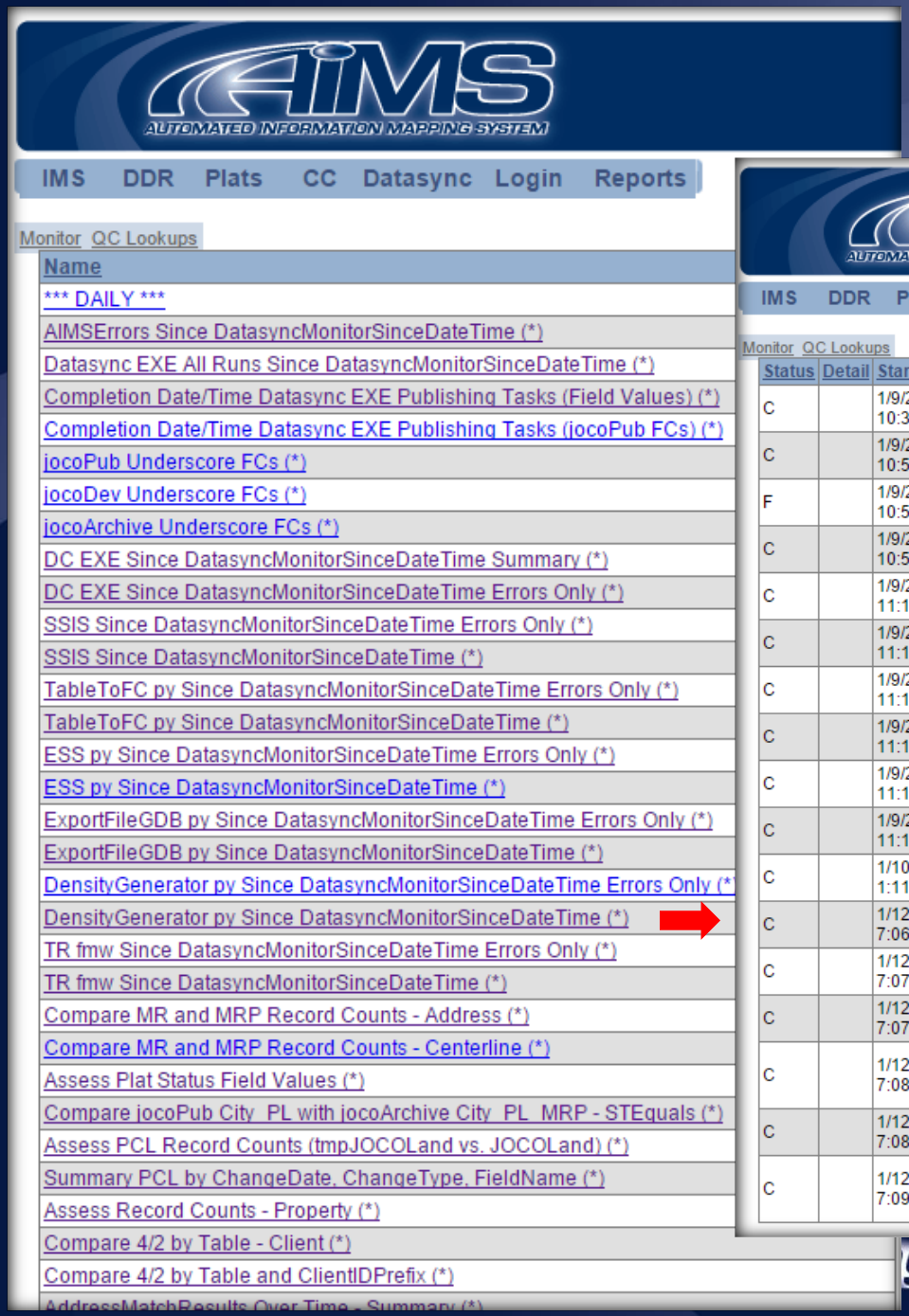


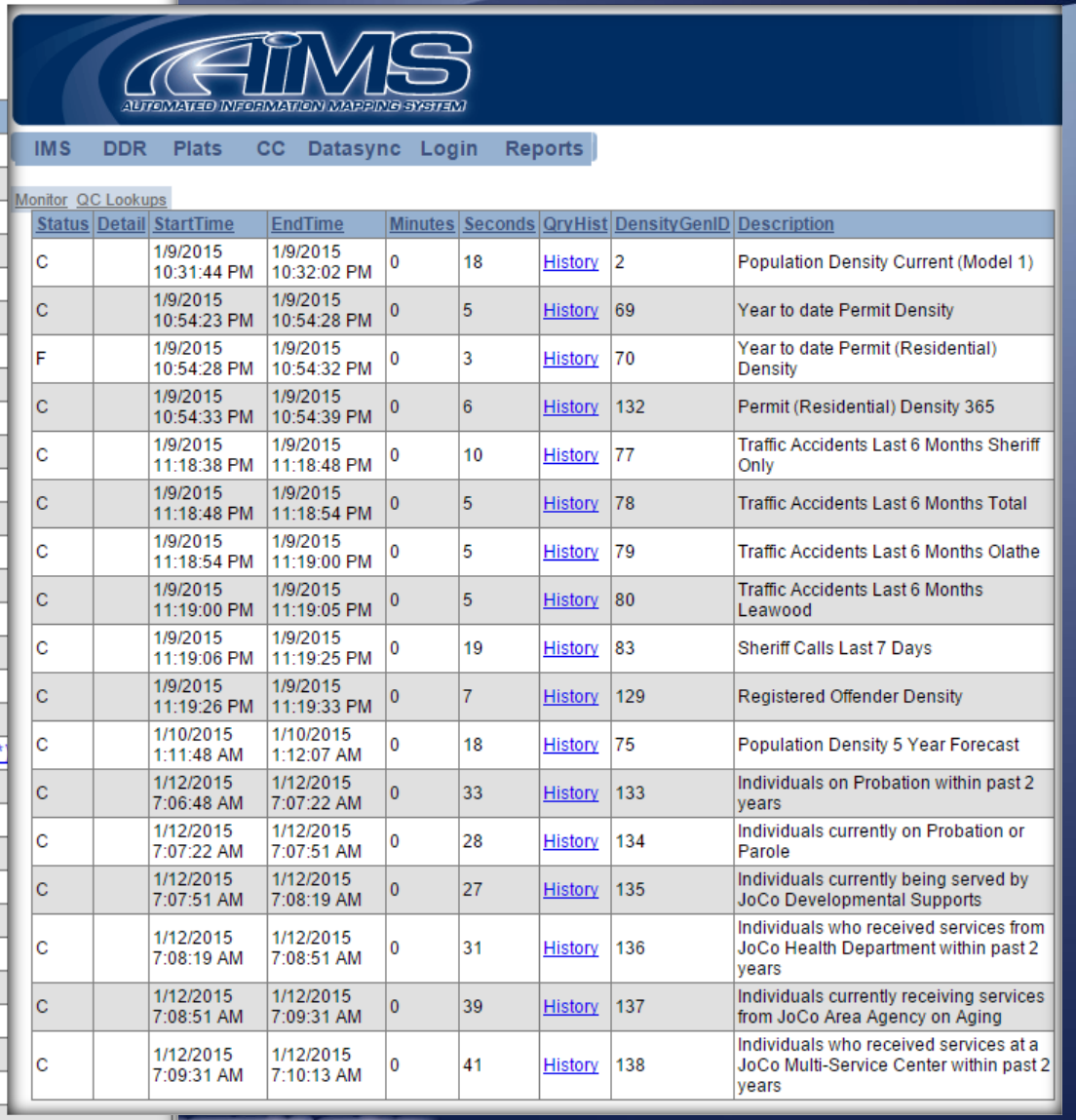
	ID	Description	Status	InFeatureClass	WhereClause	DensityField	CellSize	SearchRadius	AreaUnits	OutFeatureClass
1	1	Foreclosure Density	A	\\Admsaimdsv01\Mapping\app\ArcTools\Ar...	DATEDIFF(d, SrcDate, getdate()) <= 365 AND X > 10 AND...	NONE	100	5280	SQUARE_MILES	\\Admsaimdsv01\Map
2	2	Population Density Current (Mod...	A	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	#	Occupants	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
3	3	Total Property Value Density	A	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = YEAR(GETDATE())	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
4	4	Residential Property Value Density	A	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = YEAR(GETDATE()) AND (GenLandUse1 LIKE '...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
5	5	Commercial Property Value Den...	A	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = YEAR(GETDATE()) AND NOT GenLandUse1 I...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
6	6	Single Family Property Value De...	A	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = YEAR(GETDATE()) AND (LandUse LIKE '100%'...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
7	7	Multi-Family Property Value Den...	A	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = YEAR(GETDATE()) AND GenLandUse1 IN ('M...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
8	8	2007 Foreclosure Density	A	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	SrcYear = 2007 AND X > 10 AND DocSrc LIKE 'Mortgage ...	NONE	100	5280	SQUARE_MILES	\\Admsaimdsv01\Map
9	9	2006 Foreclosure Density	A	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	SrcYear = 2006 AND X > 10 AND DocSrc LIKE 'Mortgage ...	NONE	100	5280	SQUARE_MILES	\\Admsaimdsv01\Map
10	10	2005 Foreclosure Density	A	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	SrcYear = 2005 AND X > 10 AND DocSrc LIKE 'Mortgage ...	NONE	100	5280	SQUARE_MILES	\\Admsaimdsv01\Map
11	11	2007 Total Property Value Density	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2007	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
12	12	2007 Residential Property Value...	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2007 AND (GenLandUse1 LIKE '%Res' OR Lan...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
13	13	2007 Commercial Property Value...	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2007 AND NOT GenLandUse1 IN ('Commercial...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
14	14	2007 Single Family Property Val...	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2007 AND (LandUse LIKE '100%' OR LandUse ...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
15	15	2007 Multi-Family Property Value...	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2007 AND GenLandUse1 IN ('MultFamRes', 'T...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
16	16	2006 Total Property Value Density	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2006	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
17	17	2006 Residential Property Value...	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2006 AND (GenLandUse1 LIKE '%Res' OR Lan...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
18	18	2006 Commercial Property Value...	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2006 AND NOT GenLandUse1 IN ('Commercial...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
19	19	2006 Single Family Property Val...	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2006 AND (LandUse LIKE '100%' OR LandUse ...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
20	20	2006 Multi-Family Property Value...	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2006 AND GenLandUse1 IN ('MultFamRes', 'T...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
21	21	2005 Total Property Value Density	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2005	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
22	22	2005 Residential Property Value...	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2005 AND (GenLandUse1 LIKE '%Res' OR Lan...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
23	23	2005 Commercial Property Value...	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2005 AND NOT GenLandUse1 IN ('Commercial...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
24	24	2005 Single Family Property Val...	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2005 AND (LandUse LIKE '100%' OR LandUse ...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
25	25	2005 Multi-Family Property Value...	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2005 AND GenLandUse1 IN ('MultFamRes', 'T...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
26	27	2007 Population Density	I	\\Admsaimdsv01\Mapping\app\ArcTools\Ar...	#	Occupants	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
27	29	2008 Population Density	I	\\Admsaimdsv01\Mapping\app\ArcTools\Ar...	#	Occupants	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
28	31	2007 Population Model 3 Density	I	\\aimswkst06\d$\workspace\200808CoordD...	"PopEstModel3" > 0	PopEstMo...	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
29	33	This WhereClause doesn't work....	I	\\Admsaimdsv01\mapping\data\Temp\Merri...	SrcYear = YEAR(GETDATE()) AND X > 10	NONE	100	5280	SQUARE_MILES	\\Admsaimdsv01\map
30	34	Year to date Foreclosure Density	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	DATEDIFF(d, SrcDate, getdate()) <= 365 AND X > 10 AND...	NONE	100	5280	SQUARE_MILES	\\Admsaimdsv01\map
31	35	Foreclosure Density as TIF	A	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	DATEDIFF(d, SrcDate, getdate()) <= 365 AND X > 10 AND...	NONE	100	5280	SQUARE_MILES	\\Admsaimdsv01\map
32	36	All Sheriff Crimes	A	NULL	#	NONE	100	1320	SQUARE_MILES	\\admsaimdsv01\map
33	37	Test Year to date Foreclosure D...	A	\\admsaimgis02\d$\ArcGIS10.2Upgrade\SD...	SrcYear = 2012 AND X > 10	NONE	100	5280	SQUARE_MILES	\\admsaimgis02\d$\A
34	38	2008 Foreclosure Density	A	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	SrcYear = 2008 AND X > 10 AND DocSrc LIKE 'Mortgage...	NONE	100	5280	SQUARE_MILES	\\Admsaimdsv01\Map
35	41	2008 Total Property Value Density	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2008	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
36	42	2008 Residential Property Value...	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2008 AND (GenLandUse1 LIKE '%Res' OR Lan...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map
37	43	2008 Commercial Property Value...	I	\\Admsaimdsv01\mapping\app\ArcTools\Ar...	TaxYear = 2008 AND NOT GenLandUse1 IN ('Commercial...	TotalValue	100	2640	SQUARE_MILES	\\Admsaimdsv01\Map

▶Writing log data



	logID	DensityGenID	StartDate	EndDate	Status	Detail
811	9018	135	2014-09-15 07:07:45.263	2014-09-15 07:08:15.100	C	NULL
812	9017	134	2014-09-15 07:07:13.973	2014-09-15 07:07:44.953	C	NULL
813	9016	133	2014-09-15 07:06:38.117	2014-09-15 07:07:13.647	C	NULL
814	9015	70	2014-09-14 22:16:02.153	2014-09-14 22:16:13.513	F	Traceback (most recent call last): File "\\Admsaimdsv01\Mapping\app\ArcTools\ArcGIS\Scripts\DensityGenerat...
815	9014	75	2014-09-13 14:51:51.023	2014-09-13 14:52:09.487	C	NULL
816	9013	132	2014-09-13 12:25:55.170	2014-09-13 12:26:01.597	F	Traceback (most recent call last): File "\\Admsaimdsv01\Mapping\app\ArcTools\ArcGIS\Scripts\DensityGenerat...
817	9012	70	2014-09-13 12:25:47.880	2014-09-13 12:25:54.370	F	Traceback (most recent call last): File "\\Admsaimdsv01\Mapping\app\ArcTools\ArcGIS\Scripts\DensityGenerat...
818	9011	69	2014-09-13 12:25:41.253	2014-09-13 12:25:47.580	C	NULL
819	9010	129	2014-09-13 12:20:06.367	2014-09-13 12:20:15.950	C	NULL
820	9009	83	2014-09-13 12:19:44.427	2014-09-13 12:20:06.043	C	NULL
821	9008	80	2014-09-13 12:19:35.087	2014-09-13 12:19:44.117	C	NULL
822	9007	79	2014-09-13 12:19:26.297	2014-09-13 12:19:34.727	C	NULL
823	9006	78	2014-09-13 12:19:17.363	2014-09-13 12:19:25.980	C	NULL
824	9005	77	2014-09-13 12:19:06.637	2014-09-13 12:19:17.047	C	NULL
825	9004	2	2014-09-13 11:50:11.833	2014-09-13 11:50:28.810	C	NULL
826	9003	75	2014-09-13 00:26:44.247	2014-09-13 00:27:01.927	C	NULL
827	9002	129	2014-09-12 23:20:58.423	2014-09-12 23:21:08.767	C	NULL
828	9001	83	2014-09-12 23:20:36.993	2014-09-12 23:20:58.103	C	NULL
829	9000	80	2014-09-12 23:20:28.140	2014-09-12 23:20:36.673	C	NULL
830	8999	79	2014-09-12 23:20:19.167	2014-09-12 23:20:27.817	C	NULL
831	8998	78	2014-09-12 23:20:09.817	2014-09-12 23:20:18.837	C	NULL
832	8997	77	2014-09-12 23:19:58.673	2014-09-12 23:20:09.397	C	NULL
833	8996	132	2014-09-12 23:09:13.860	2014-09-12 23:09:27.633	F	Traceback (most recent call last): File "\\Admsaimdsv01\Mapping\app\ArcTools\ArcGIS\Scripts\DensityGenerat...
834	8995	70	2014-09-12 23:08:58.820	2014-09-12 23:09:13.057	F	Traceback (most recent call last): File "\\Admsaimdsv01\Mapping\app\ArcTools\ArcGIS\Scripts\DensityGenerat...
835	8994	69	2014-09-12 23:08:52.237	2014-09-12 23:08:58.510	C	NULL
836	8993	2	2014-09-12 22:54:35.783	2014-09-12 22:54:42.620	C	NULL
837	8992	115	2014-09-12 20:30:29.787	2014-09-12 20:30:43.573	C	NULL
838	8991	75	2014-09-12 01:03:43.083	2014-09-12 01:04:04.323	C	NULL
839	8990	129	2014-09-12 00:14:30.887	2014-09-12 00:14:44.353	C	NULL
840	8989	83	2014-09-12 00:13:51.503	2014-09-12 00:14:29.577	C	NULL
841	8988	132	2014-09-11 23:52:32.127	2014-09-11 23:52:47.267	C	NULL
842	8987	70	2014-09-11 23:52:15.567	2014-09-11 23:52:30.930	C	NULL
843	8986	69	2014-09-11 23:52:05.657	2014-09-11 23:52:14.433	C	NULL
844	8985	2	2014-09-11 23:34:10.347	2014-09-11 23:34:31.177	C	NULL
845	8984	75	2014-09-11 01:06:46.777	2014-09-11 01:07:13.157	C	NULL
846	8983	129	2014-09-11 00:01:47.223	2014-09-11 00:02:00.043	C	NULL
847	8982	83	2014-09-11 00:01:21.710	2014-09-11 00:01:46.033	C	NULL
848	8981	132	2014-09-10 23:55:19.540	2014-09-10 23:55:39.373	C	NULL





Status	Detail	StartTime	EndTime	Minutes	Seconds	QryHist	DensityGenID	Description
C		1/9/2015 10:31:44 PM	1/9/2015 10:32:02 PM	0	18	History	2	Population Density Current (Model 1)
C		1/9/2015 10:54:23 PM	1/9/2015 10:54:28 PM	0	5	History	69	Year to date Permit Density
F		1/9/2015 10:54:28 PM	1/9/2015 10:54:32 PM	0	3	History	70	Year to date Permit (Residential) Density
C		1/9/2015 10:54:33 PM	1/9/2015 10:54:39 PM	0	6	History	132	Permit (Residential) Density 365
C		1/9/2015 11:18:38 PM	1/9/2015 11:18:48 PM	0	10	History	77	Traffic Accidents Last 6 Months Sheriff Only
C		1/9/2015 11:18:48 PM	1/9/2015 11:18:54 PM	0	5	History	78	Traffic Accidents Last 6 Months Total
C		1/9/2015 11:18:54 PM	1/9/2015 11:19:00 PM	0	5	History	79	Traffic Accidents Last 6 Months Olathe
C		1/9/2015 11:19:00 PM	1/9/2015 11:19:05 PM	0	5	History	80	Traffic Accidents Last 6 Months Leawood
C		1/9/2015 11:19:06 PM	1/9/2015 11:19:25 PM	0	19	History	83	Sheriff Calls Last 7 Days
C		1/9/2015 11:19:26 PM	1/9/2015 11:19:33 PM	0	7	History	129	Registered Offender Density
C		1/10/2015 1:11:48 AM	1/10/2015 1:12:07 AM	0	18	History	75	Population Density 5 Year Forecast
C		1/12/2015 7:06:48 AM	1/12/2015 7:07:22 AM	0	33	History	133	Individuals on Probation within past 2 years
C		1/12/2015 7:07:22 AM	1/12/2015 7:07:51 AM	0	28	History	134	Individuals currently on Probation or Parole
C		1/12/2015 7:07:51 AM	1/12/2015 7:08:19 AM	0	27	History	135	Individuals currently being served by JoCo Developmental Supports
C		1/12/2015 7:08:19 AM	1/12/2015 7:08:51 AM	0	31	History	136	Individuals who received services from JoCo Health Department within past 2 years
C		1/12/2015 7:08:51 AM	1/12/2015 7:09:31 AM	0	39	History	137	Individuals currently receiving services from JoCo Area Agency on Aging
C		1/12/2015 7:09:31 AM	1/12/2015 7:10:13 AM	0	41	History	138	Individuals who received services at a JoCo Multi-Service Center within past 2 years

gov.org

Check the validity of URLs in a table

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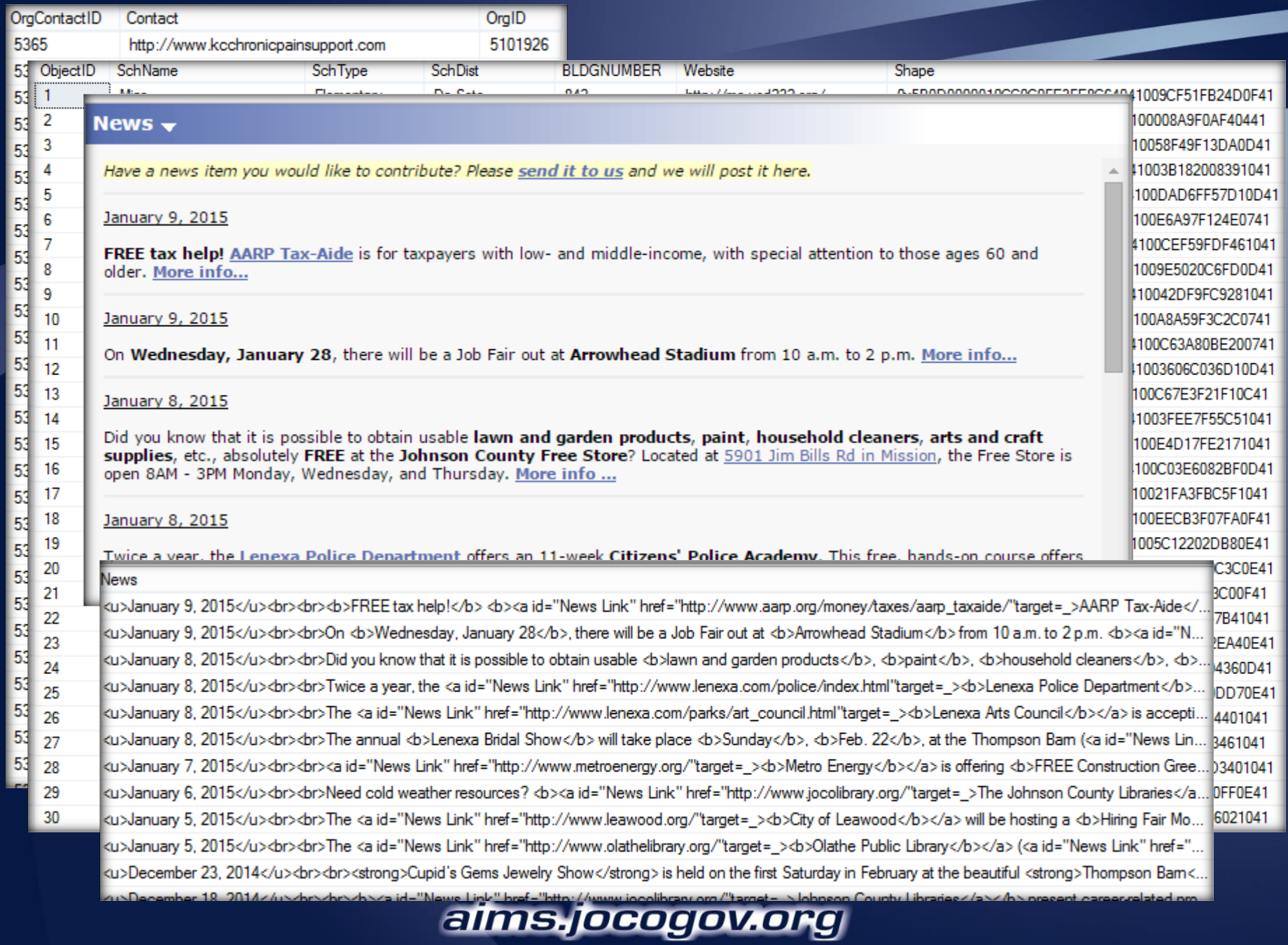
OrgContactID
Contact
OrgID
5365
http://www.kcchronicpainsupport.com
5101926
ObjectID
SchName
SchType
SchDist
BLDGNUMBER
Website
Shape
News
Have a news item you would like to contribute? Please send it to us and we will post it here.
January 9, 2015
FREE tax help! AARP Tax-Aide is for taxpayers with low- and middle-income, with special attention to those ages 60 and older. More info...
January 9, 2015
On Wednesday, January 28, there will be a Job Fair out at Arrowhead Stadium from 10 a.m. to 2 p.m. More info...
January 8, 2015
Did you know that it is possible to obtain usable lawn and garden products, paint, household cleaners, arts and craft supplies, etc., absolutely FREE at the Johnson County Free Store? Located at 5901 Jim Bills Rd in Mission, the Free Store is open 8AM - 3PM Monday, Wednesday, and Thursday. More info ...
January 8, 2015
News
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SQLQuery105.sql...ONCO\YODER (433))* | SQLQuery103.sql...ONCO\YODER (718))* | Documentation.sq...NCO\YODER (726)) | SQLQuery1

```
SELECT TOP 50 b.SourceSystemID, a.URL,
    CheckURL = CASE
    WHEN a.URLContainsSpaceOrComma LIKE 'No' THEN dbo.fnCheckURL(a.URL)
    WHEN a.URLContainsSpaceOrComma LIKE 'Yes' THEN 'URL contains a space or comma'
    ELSE '' END,
GETDATE() AS CheckDate
FROM
    (
    SELECT OrgID, Contact AS URL,
    URLContainsSpaceOrComma = CASE
    WHEN LEN(Contact) - LEN(REPLACE(Contact, ' ', '')) > 0 THEN 'Yes'
    WHEN LEN(Contact) - LEN(REPLACE(Contact, ',', '')) > 0 THEN 'Yes'
    ELSE 'No' END
    FROM hsOrgContact4
    WHERE ContactType LIKE 'Website'
    ) a
INNER JOIN hsOrg4 b ON a.OrgID = b.OrgID
GO
```

fnCheckURL

100 %

Results | Messages

	SourceSystemID	URL	CheckURL	CheckDate
1	7435	http://www.unitedwaygkc.org	Valid URL	2015-01-12 12:34:11.057
2	15054	http://www.wffriend.org	Valid URL	2015-01-12 12:34:11.057
3	15130	http://www.turnerusd202.org/parentsasteachers	Valid URL	2015-01-12 12:34:11.057
4	15173	http://www.bluevalleyk12.org/parentsasteachers	Valid URL	2015-01-12 12:34:11.057
5	15181	http://www.olatheschools.com	Valid URL	2015-01-12 12:34:11.057
6	15367	http://www.smks-headstart.org	Valid URL	2015-01-12 12:34:11.057
7	15404	http://www.usd231.com	The remote server returned an error: (403) Forbi...	2015-01-12 12:34:11.057
8	15567	http://my.americorps.gov	Valid URL	2015-01-12 12:34:11.057
9	16067	http://www.jacobswellchurch.org	Valid URL	2015-01-12 12:34:11.057
10	16383	https://www.facebook.com/ENCOREplus.program	Valid URL	2015-01-12 12:34:11.057
11	16386	http://www.yvckc.org	Valid URL	2015-01-12 12:34:11.057
12	16388	http://www.saltforkymca.org	Valid URL	2015-01-12 12:34:11.057
13	16389	http://www.ymca.net	Valid URL	2015-01-12 12:34:11.057
14	16390	http://www.kansascityymca.org	Valid URL	2015-01-12 12:34:11.057

Performance & Configuration

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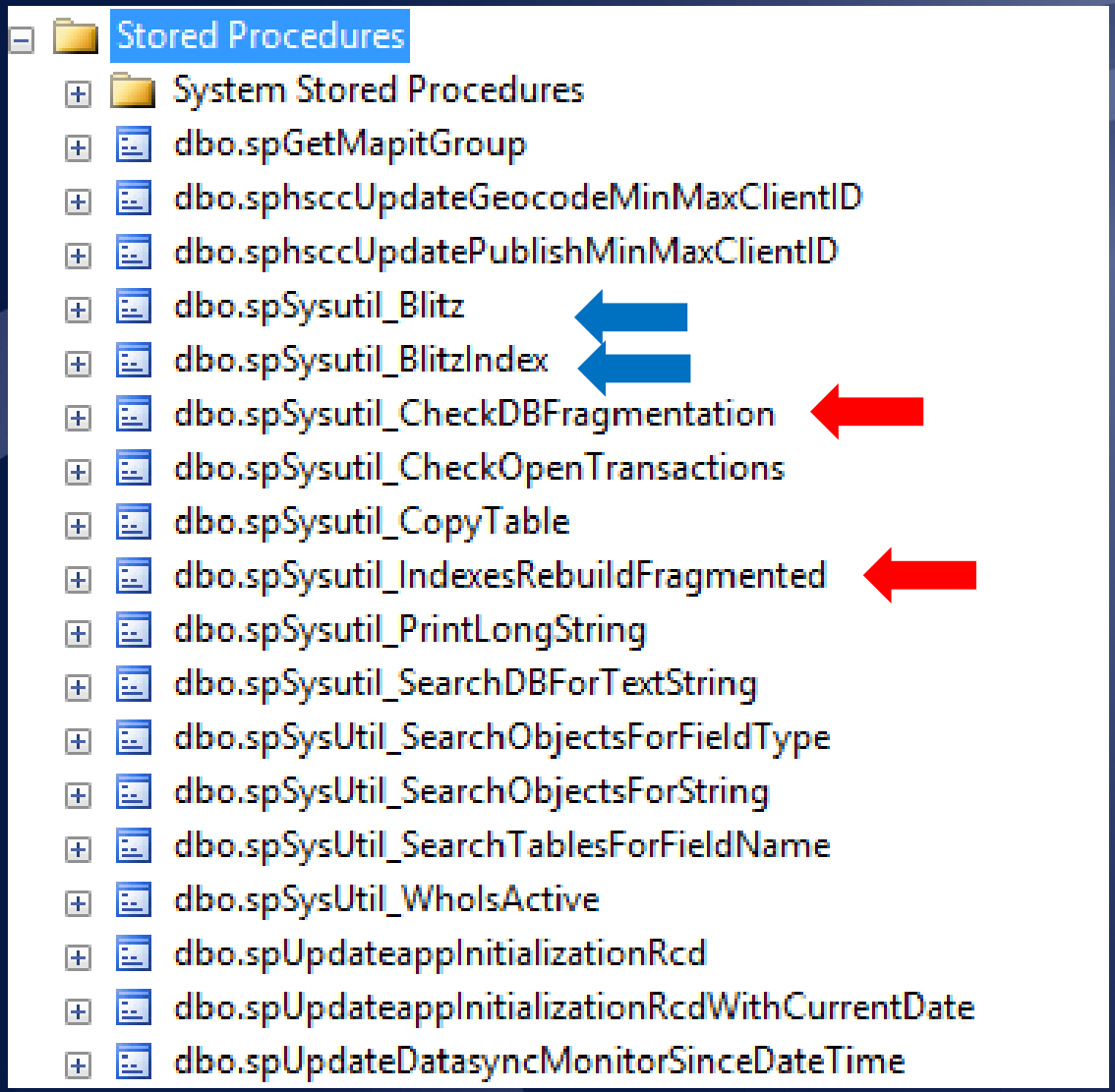
```
USE jocoPub
GO

DECLARE @idx as varchar(100) = NULL
DECLARE @tableowner as varchar(100) = NULL
DECLARE @tablename as varchar(100) = 'WATERHYDRANTS_PT'

--Lookup the spatial index name (since it's dynamic) & the table owner
SELECT @idx = ind.name, @tableowner = su.name FROM sys.indexes ind
JOIN sysobjects so on ind.object_id = so.id
JOIN sysusers su on so.uid = su.uid
WHERE ind.type_desc = 'SPATIAL' AND OBJECT_NAME(ind.[OBJECT_ID]) = @tablename

-- Create spatial index and update stats ...
EXEC ('
CREATE SPATIAL INDEX ' + @idx + ' ON ' + @tableowner + '.' + @tablename + '
([SHAPE])
USING  GEOMETRY_GRID
WITH (
BOUNDING_BOX =(2139582.891091, 52050.234421, 2278148.784562, 333428.2632),
GRIDS =(LEVEL_1 = HIGH,LEVEL_2 = HIGH,LEVEL_3 = HIGH,LEVEL_4 = HIGH),
CELLS_PER_OBJECT = 16, PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, SORT_IN_TEMPDB = OFF,

UPDATE STATISTICS ' + @tableowner + '.' + @tablename + ';
')
```


Stored Procedures
System Stored Procedures
dbo.spGetMapitGroup
dbo.sphsccUpdateGeocodeMinMaxClientID
dbo.sphsccUpdatePublishMinMaxClientID
dbo.spSysutil_Blitz
dbo.spSysutil_BlitzIndex
dbo.spSysutil_CheckDBFragmentation
dbo.spSysutil_CheckOpenTransactions
dbo.spSysutil_CopyTable
dbo.spSysutil_IndexesRebuildFragmented
dbo.spSysutil_PrintLongString
dbo.spSysutil_SearchDBForTextString
dbo.spSysUtil_SearchObjectsForFieldType
dbo.spSysUtil_SearchObjectsForString
dbo.spSysUtil_SearchTablesForFieldName
dbo.spSysUtil_WhoIsActive
dbo.spUpdateappInitializationRcd
dbo.spUpdateappInitializationRcdWithCurrentDate
dbo.spUpdateDatasyncMonitorSinceDateTime

on ADMSAIMDSV01 at 1/6/2015 5:27:22 PM

This report provides overview of the utilization of disk space within the Database.

Total Space Usage:	28,628.50 MB
Data Files Space Usage:	21,828.44 MB
Transaction Log Space Usage:	6,800.06 MB

Data Files Space Usage (%)

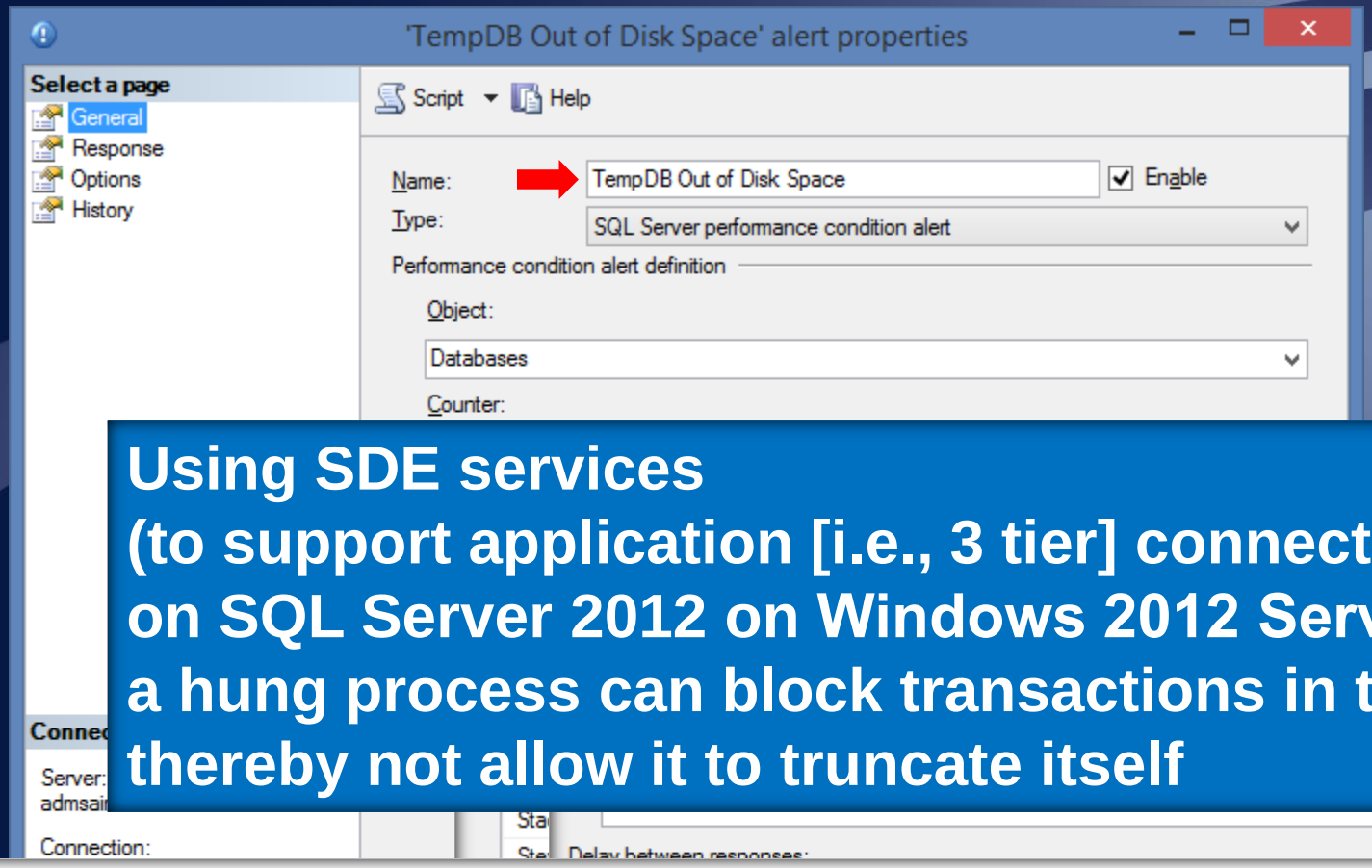
Transaction Log Space Usage (%)

Data/Log Files Autogrow/Autoshrink Events

Event	Logical File Name	Start Time	Duration (ms.)	Change In Size (MB)
Log File Auto Growth	templog	12/30/2014 7:30:28 AM	1010	655.44
Log File Auto Growth	templog	12/30/2014 3:48:25 AM	640	595.88
Log File Auto Growth	templog	12/30/2014 3:37:12 AM	1840	541.69
Log File Auto Growth	templog	12/30/2014 3:28:46 AM	720	492.44

Disk Space Used by Data Files

Filegroup Name	Logical File Name	Physical File Name	Space Reserved	Space Used
PRIMARY	tempdev	L:\TempDB\tempdb.mdf	5.72 GB	70.06 MB
PRIMARY	tempdev1	D:\TempDB\tempdev1.ndf	5.20 GB	70.19 MB
PRIMARY	tempdev2	I:\TempDB\tempdev2.ndf	5.20 GB	70.94 MB
PRIMARY	tempdev3	R:\TempDB\tempdev3.ndf	5.20 GB	71.56 MB



Using SDE services (to support application [i.e., 3 tier] connections) on SQL Server 2012 on Windows 2012 Server … a hung process can block transactions in tempdb thereby not allow it to truncate itself

-----Original Message-----
From: AIMS-Notification [mailto:AIMS-Notification@jocogov.org]
Sent: Tuesday, January 06, 2015 3:08 PM
To: AIMS IT STAFF
Subject: SQL Server Alert System: 'TempDB Out of Disk Space' occurred on \\ADMSAIMDSV01

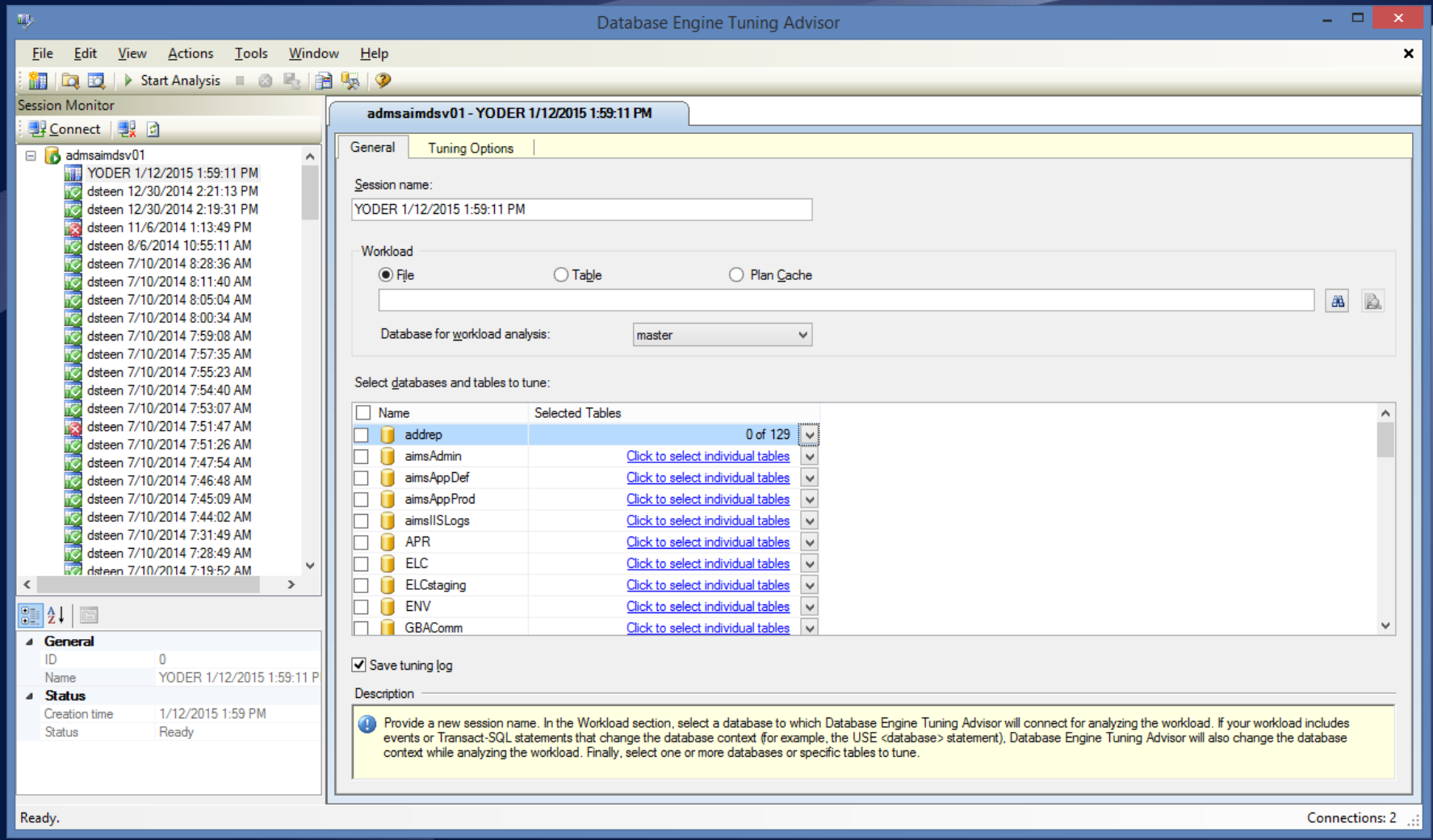
DATE/TIME: 1/6/2015 3:08:18 PM

DESCRIPTION: The SQL Server performance counter 'Percent Log Used' (instance 'tempdb') of object 'Databases' is now above the threshold of 80.00 (the current value is 81.00).

COMMENT: SDE services need to be restarted on DSV

JOB RUN: (None)

Database Engine Tuning Advisor



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Location Services

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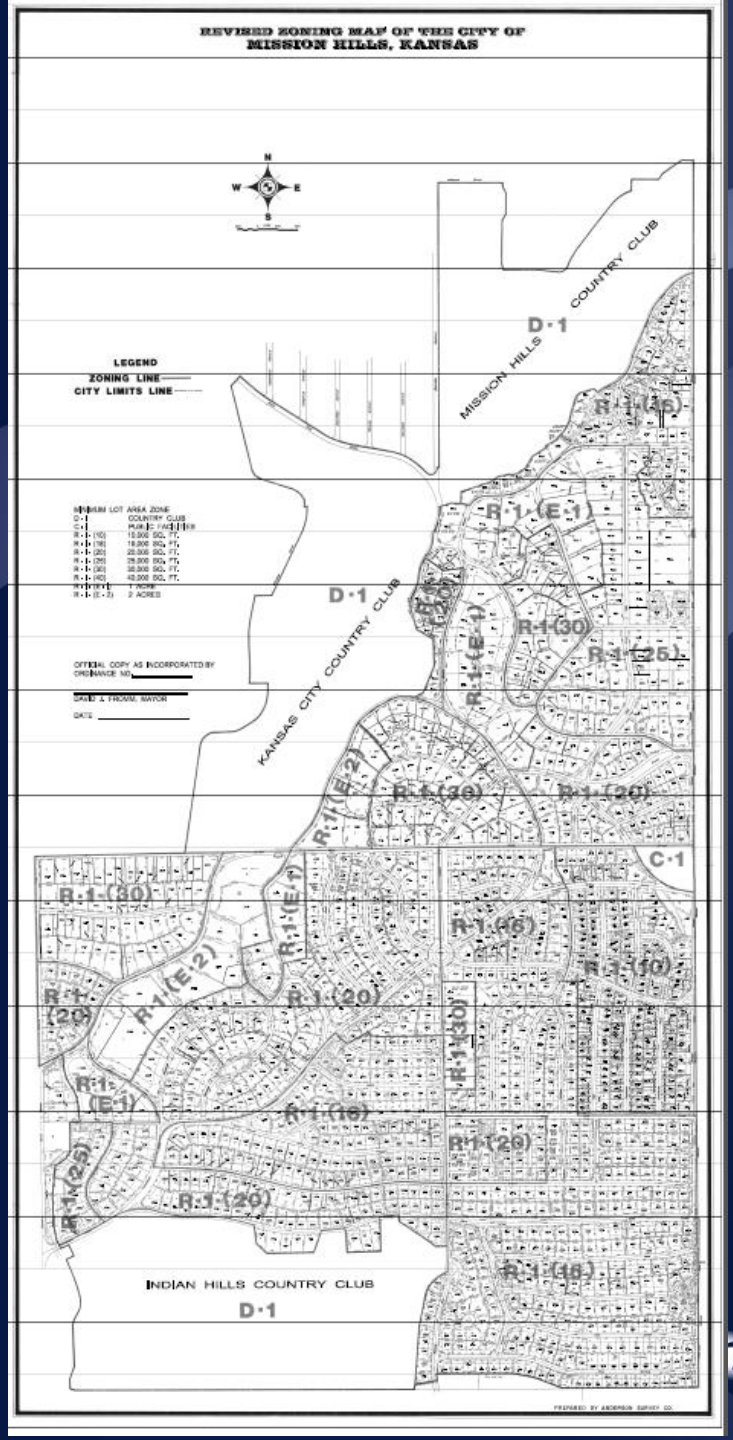
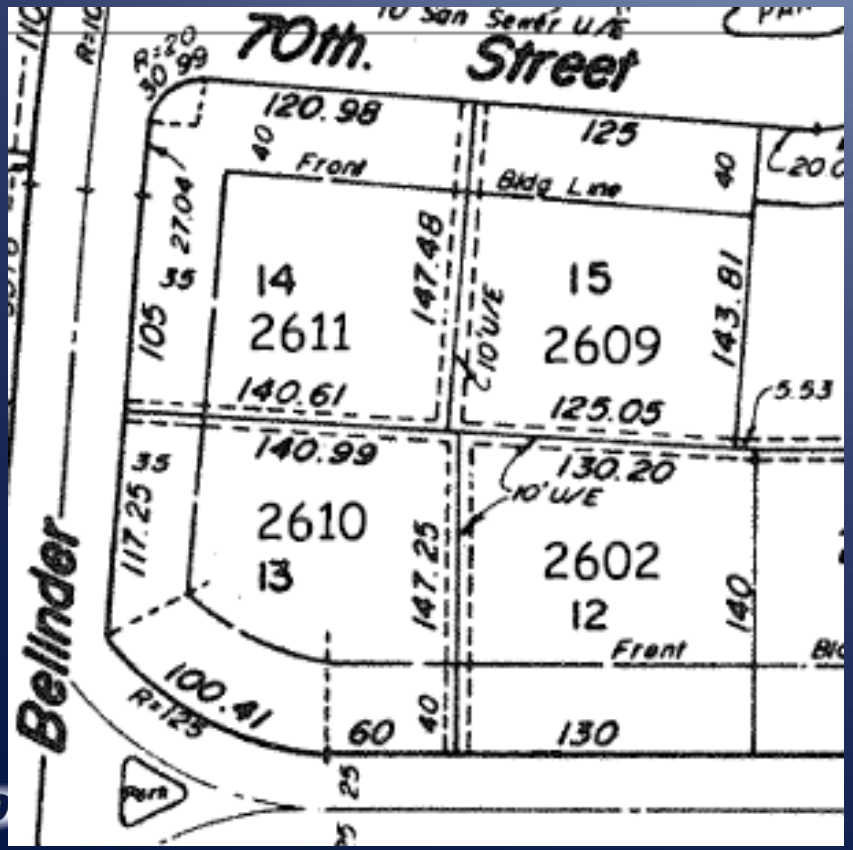
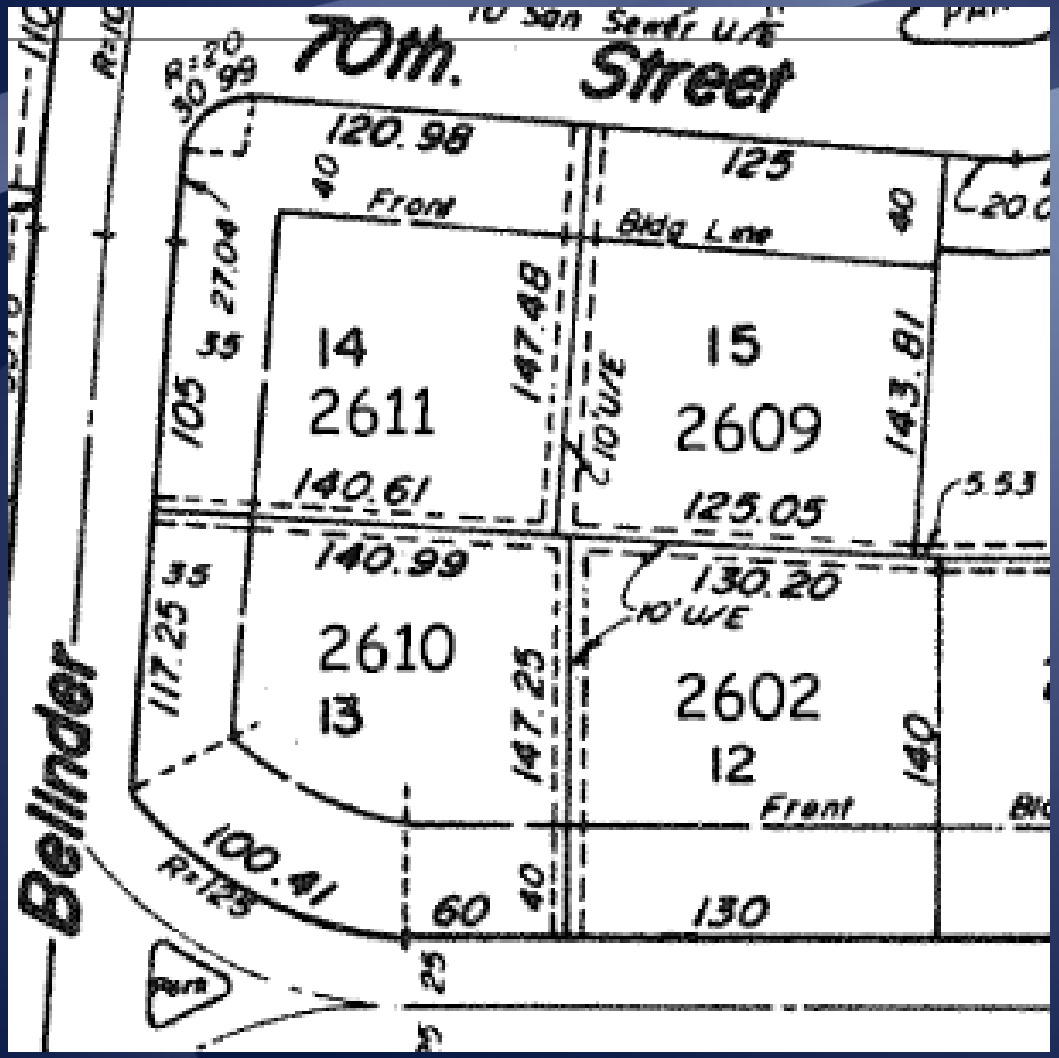


- Request to digitize setback information from plats to printed map.





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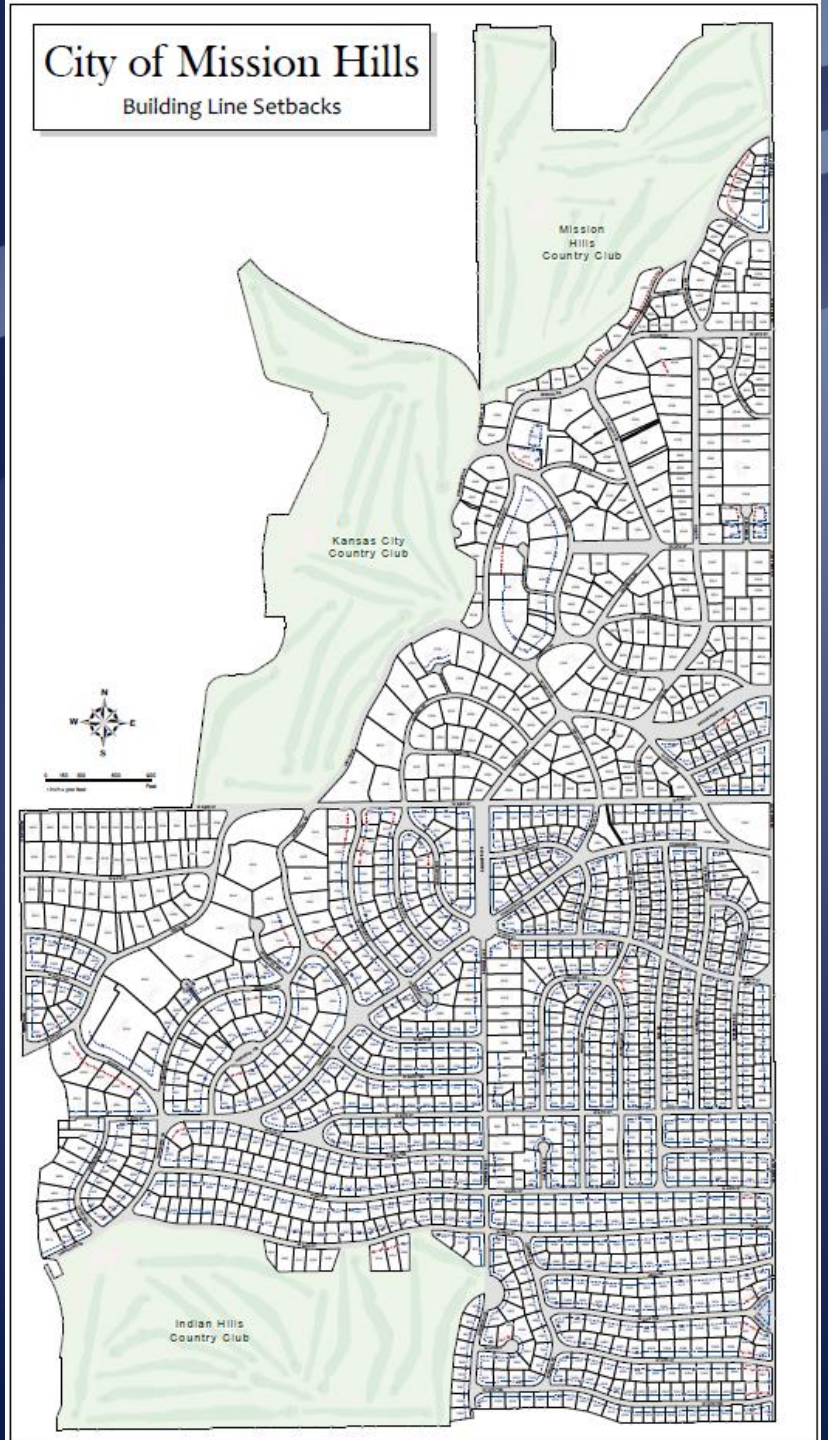
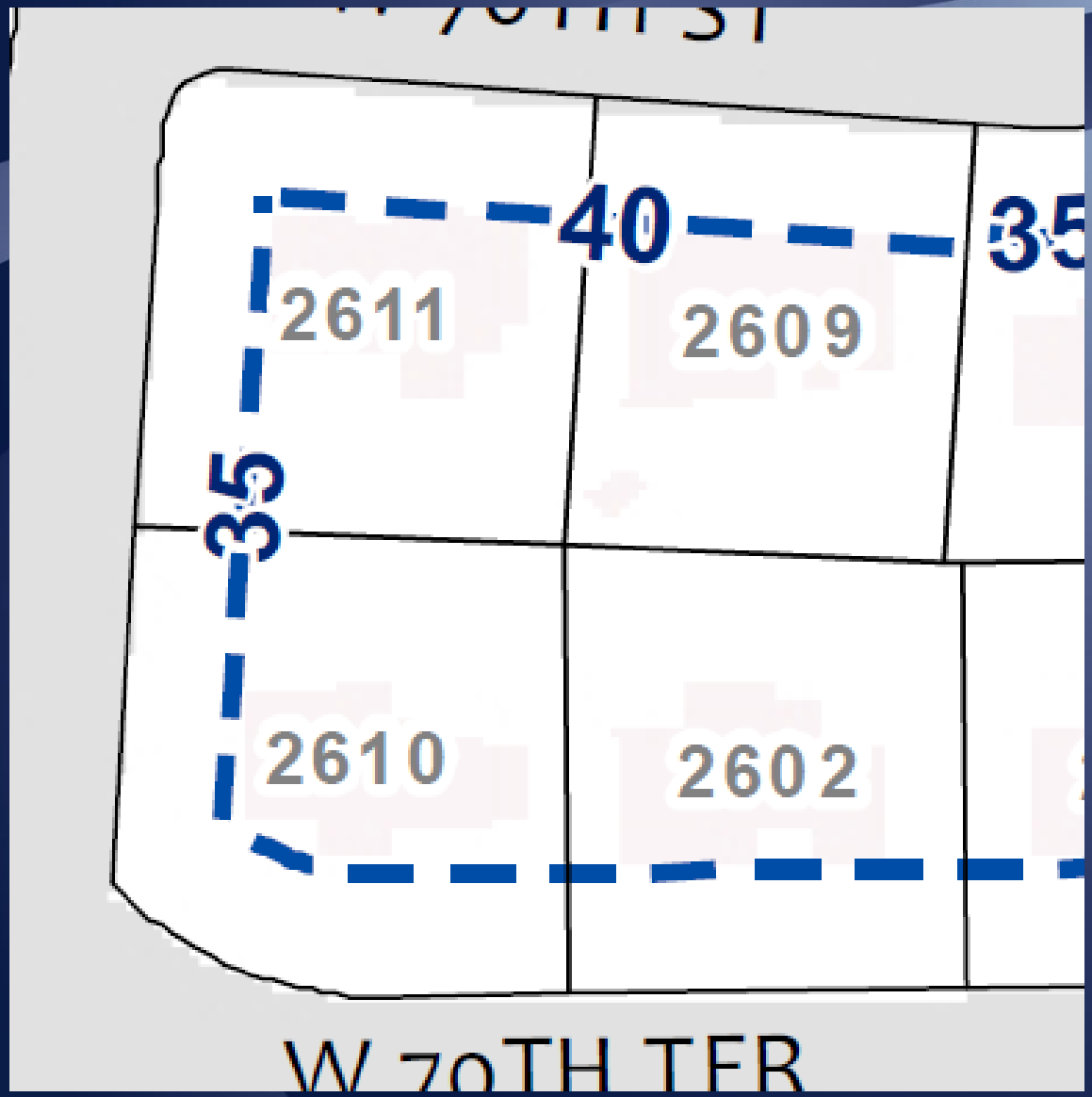

City of Mission Hills
Building Line Setbacks
Mission Hills Country Club
Kansas City Country Club
Indian Hills Country Club



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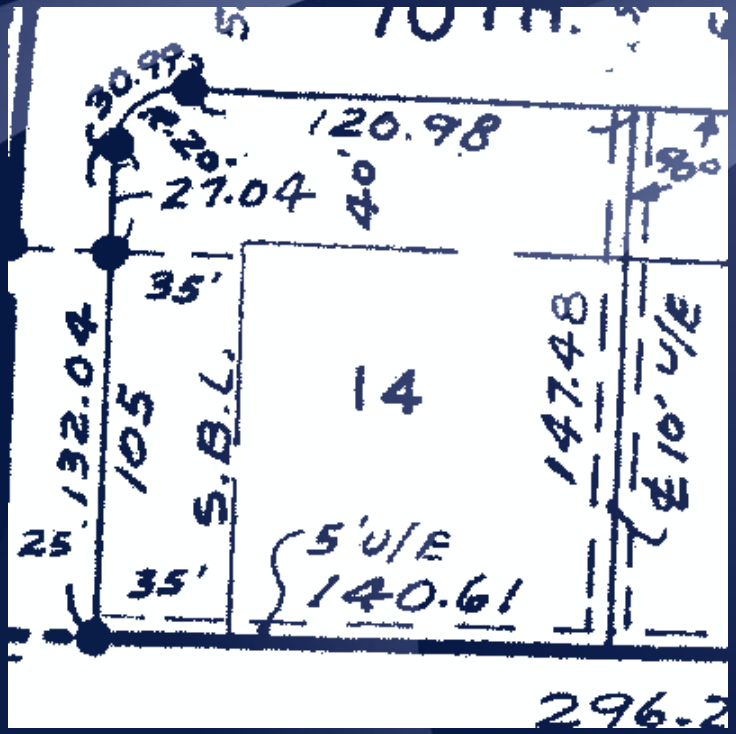
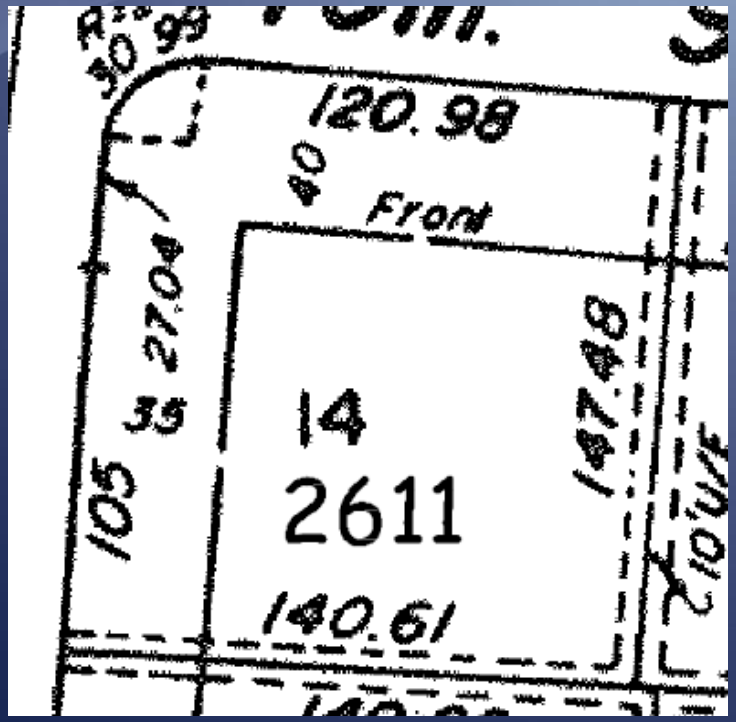
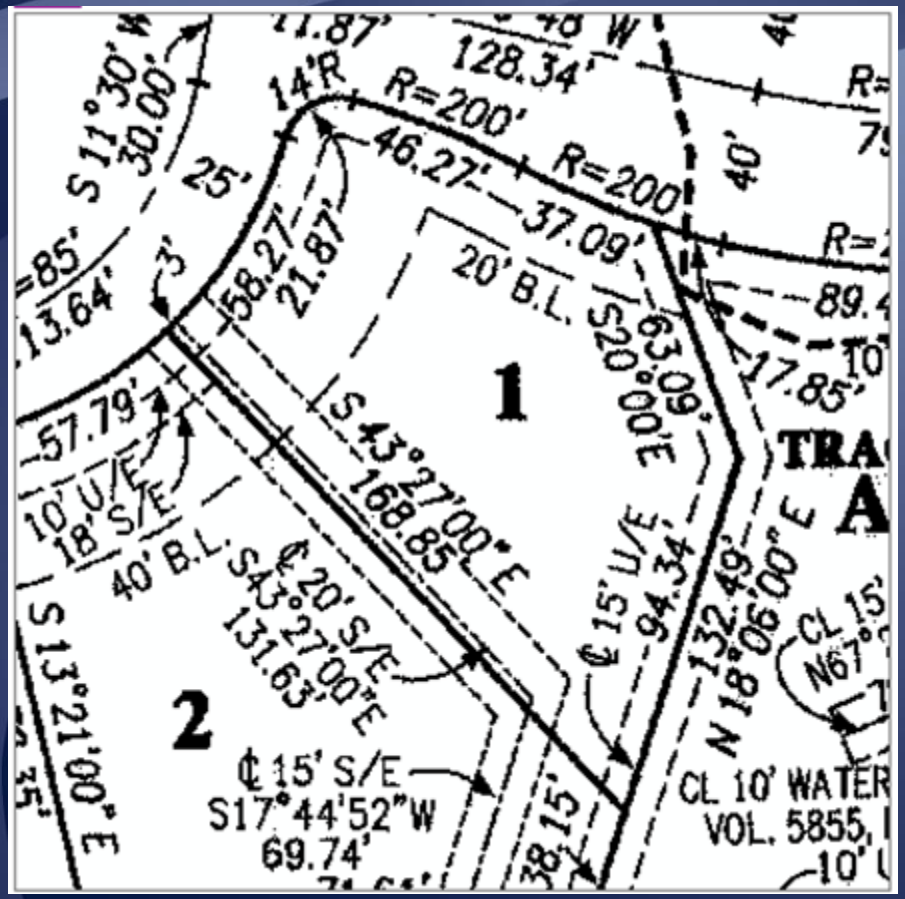
- Alternative to digitizing plats for entire county?
  - *Simple, open access for property owners to access their lot dimensions, setbacks, easement/right-of-way designations from plat.*
  - *Add plat "chips" to our existing Location Services pages (using existing map service)*


30.99
120.98
27.04
40
35'
132.04
105
S.B.L.
14
147.48
10' U/E
25'
35'
5' U/E
140.61


30.99
120.98
40
Front
27.04
35
105
14
2611
147.48
10' U/E
140.61



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- All our plat images were georeferenced (or so we thought!).

AUTOMATED INFORMATION MAPPING SYSTEM

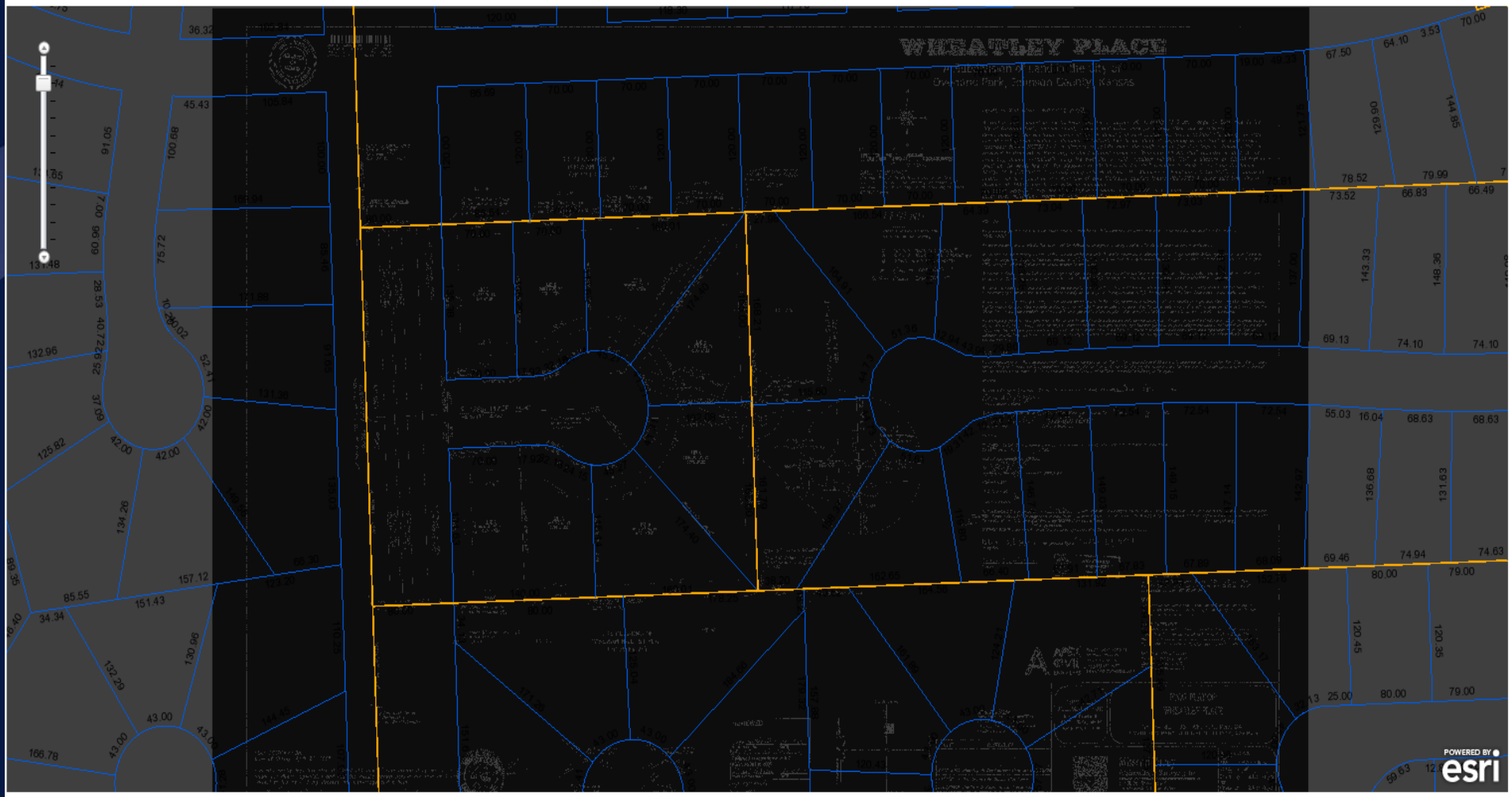
Plat Images

Full Extent | Toggle Map | Search Map | Clear Results | Measure | Identify | View Plat | Download Plat

Copyright © 2012 -- Johnson County, Kansas AIMS

Plat Images

Full Extent | Toggle Map | Search Map | Clear Results | Measure | Identify | View Plat | Download Plat



Copyright © 2012 -- Johnson County, Kansas AIMS

Search for: NP10230000 0001 GO

enter address, property id, owner name, or kupn

Results for 10401 W 169TH ST (NP10230000 0001)

[Create Plot Plan] [Driving Directions]

myAIMS Login | Link | Mobile | Disclaimer | Help

General Information [Collapse All]

Property ID:	NP10230000 0001
Site Address:	10401 W 169TH ST Overland Park, KS 66062
Legal Description:	COFFEE CREEK CROSSING SECOND PLAT LT 1 OPC 13A 2 E 1
Block/Lot:	0000 /0001
Subdivision:	COFFEE CREEK CROSSING
Plat:	COFFEE CREEK CROSSING SECOND PLAT
Plat Book/Page:	200703/005601
Plat Recorded:	03/16/2007
KS Uniform Parcel Num.:	0461562301009018000

Owner Information

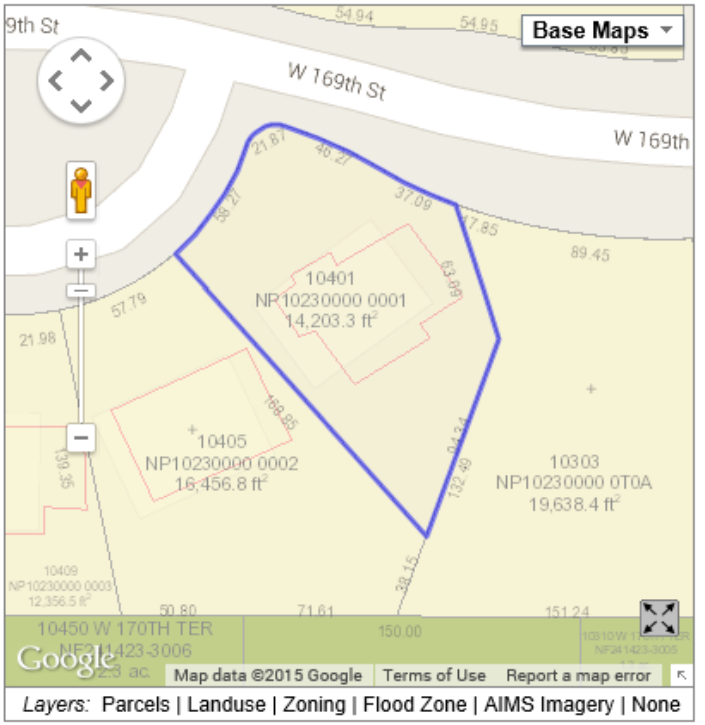
Owner Name 1:	RASHIDZADA, WAHID
Owner Address:	10401 W 169TH ST OVERLAND PARK, KS 66062

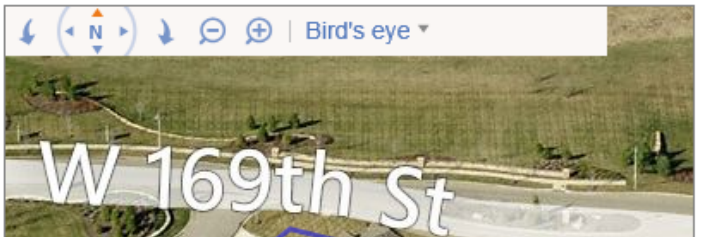
Specials Information

OPC STORMDRG (905):	$24.00

Location Information

Township-Range-Section:	14-24-23
City/Township:	Overland Park
Quarter Section:	NE





KS Board of Education:	John W. Bacon (R) (3rd District)
City Ward:	Overland Park Ward 6 (District N6)

Property Description

LBCS Function:	1101 (Single family residence)
LBCS Site:	6000 (Developed site - with buildings)
LBCS Activity:	1100 (Household activities)
LBCS Ownership:	(Private-fee simple)
LBCS Structure:	1110 (Detached SFR unit)
Zoning:	RN-1J (Residential Neighborhood 1 District*)
Property Type:	Unplatted Property Polygon
General Landuse:	SnglFamRes
Year Built:	1976
Property Area:	1.05 acres
Addresses:	1

School Information

School District	Blue Valley (USD #229)
Elementary School:	Timber Creek (1.0 miles) 16451 Flint St 913-239-7800
Middle School:	Aubry Bend (1.6 miles) 12501 W 175th St 913-624-2300
High School:	Blue Valley Southwest (1.3 miles) 17600 Quivira Rd 913-624-2000
School Board District:	Blue Valley (District 3 & 6)

Stormwater/Flood Information

FEMA Panel:	20091C0112G
Watershed:	Blue River (TMDL Regulated)

Local Flood Plain Administrator Contacts

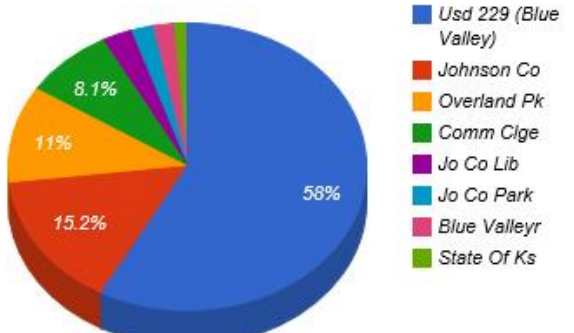
Tax Information

Front Elevation Photos

046-156-23-0-10-01-007.00-0 12/03/2010

Click image thumbnail to display larger image.

Property Taxes - Where Your Property Tax Dollars Go



Property Area:	0.32 acres
Addresses:	1

School Information

School District	Blue Valley (USD #229)
Elementary School:	Timber Creek (0.9 miles) 16451 Flint St 913-239-7800
Middle School:	Aubry Bend (1.6 miles) 12501 W 175th St 913-624-2300
High School:	Blue Valley Southwest (1.4 miles) 17600 Quivira Rd 913-624-2000
School Board District:	Blue Valley (District 3 & 6)

Stormwater/Flood Information

FEMA Panel:	20091C0112G
Watershed:	Blue River (TMDL Regulated)

Local Flood Plain Administrator Contacts

Tax Information

Appraisal Information	Link
Property Taxes	Link (Prior Years)
Taxing Unit:	0769UW

Utility Information

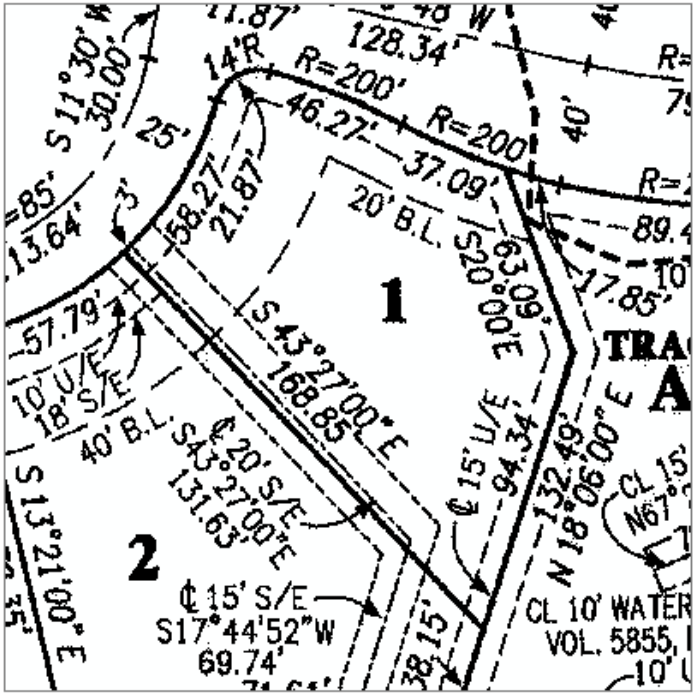
Electric Provider:	Kansas City Power & Light - *(816) 471-5275*
Gas Provider:	Atmos Energy - *(888) 286-6700*
Sewer Provider:	Johnson County Wastewater - *(913) 715-8500*
Water Provder:	WaterOne - *(913) 895-1800*
Stormwater Provider:	City of Overland Park - *(913) 895-6050*
Cable Provider(s):	Time Warner Cable - *(913) 682-2113*

Voting Information

046-156-23-0-10-09-018.00-0 12/03/2010

Click image thumbnail to display larger image.

Plat Image Detail - COFFEE CREEK CROSSING SECOND PLAT

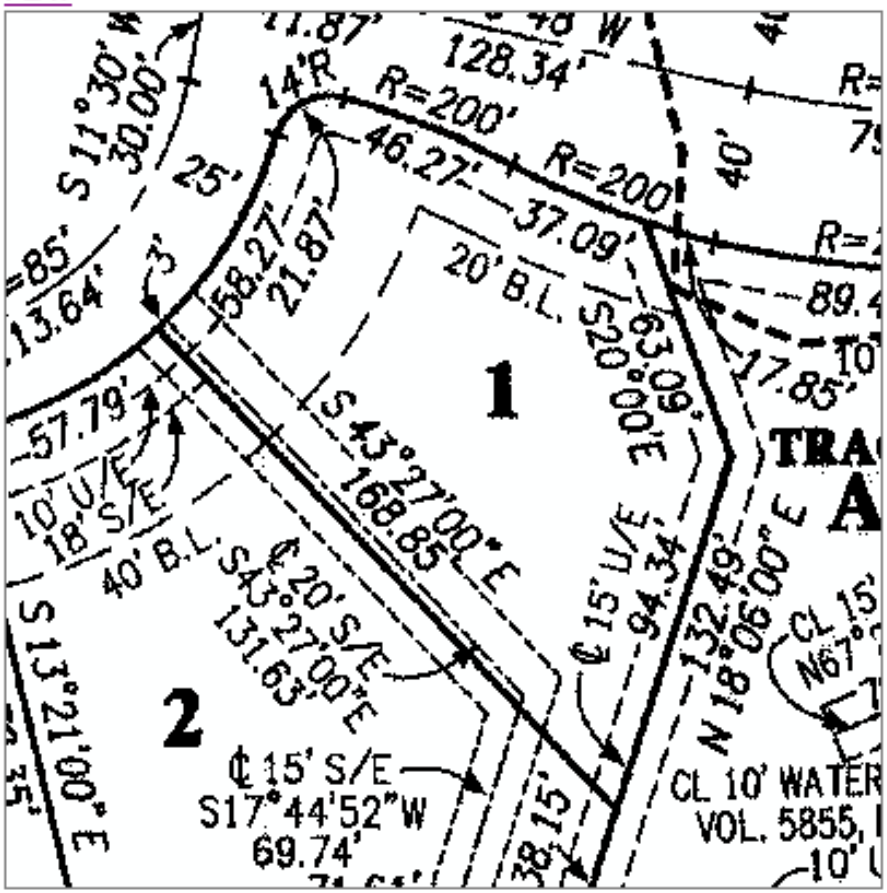


This plat image thumbnail may represent additional easement, setback, and right of way not found on the above property map. The image may not be a full representation of property restrictions and most recent document filings. Use mousewheel to zoom image.

Property Taxes - Where Your Property Tax Dollars Go

- http://ims.jocogov.org/locationservices/?id=NP10230000 0001

Plat Image Detail - COFFEE CREEK CROSSING SECOND PLAT



This plat image thumbnail may represent additional easement, setback, and right of way not found on the above property map. The image may not be a full representation of property restrictions and most recent document filings. Use mousewheel to zoom image.

- How does that work?
  - From Parcel ID go get plat attributes (e.g. id, name, etc) and parcel extent

POST http://ims.jocogov.org/locationservices/mapPlat.ashx 200 OK 322ms

Headers Post Response XML Cookies

```
<platinfo>
  <Table>
    <XMin>2245892.21</XMin>
    <YMin>220620.56</YMin>
    <XMax>2246036.09</XMax>
    <YMax>220736.27</YMax>
    <LatMin>38.892653</LatMin>
    <LngMin>-94.719367</LngMin>
    <LatMax>38.892956</LatMax>
    <LngMax>-94.718847</LngMax>
    <RecType>Plat</RecType>
    <PlatID>NP006004</PlatID>
    <PlatName>AMBER MEADOWS 4TH PLAT</PlatName>
    <ImageName>\Plats\book0074\00740020.tif</ImageName>
    <ImageError>0</ImageError>
  </Table>
</platinfo>
```

- How does that work?
  - From Parcel ID go get plat attributes (e.g. id, name, etc) and parcel extent
  - From parcel extent, get map tile (can do this through the use of dynamic layers in the map service)

Export Map (ImportPlat)

Width: 400
Height: 400
Extent:

XMin: 2245892
YMin: 220605.9999999999
XMax: 2246036
YMax: 220749.9999999999
Spatial Reference: 102677 (3419)

Scale: 43.2

Bounding Box:	2245892,220620,2246036,220736
Bounding Box Spatial Reference:	3419
Layers:	
Layer Definitions:	
Image Size:	400,400
Image Spatial Reference:	
Image Format:	PNG
Background Transparent:	True / False

```
{
 "href": "https://maps.jocogov.org/arcgis/rest/directories/arcgisoutput/Import
 "width": 400,
 "height": 400,
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  "xmin": 2245892,
  "ymin": 220605.99999999991,
  "xmax": 2246036,
  "ymax": 220749.99999999991,
  "spatialReference": {
   "wkid": 102677,
   "latestWkid": 3419
  }
 },
 "scale": 43.200000000000003
}
```
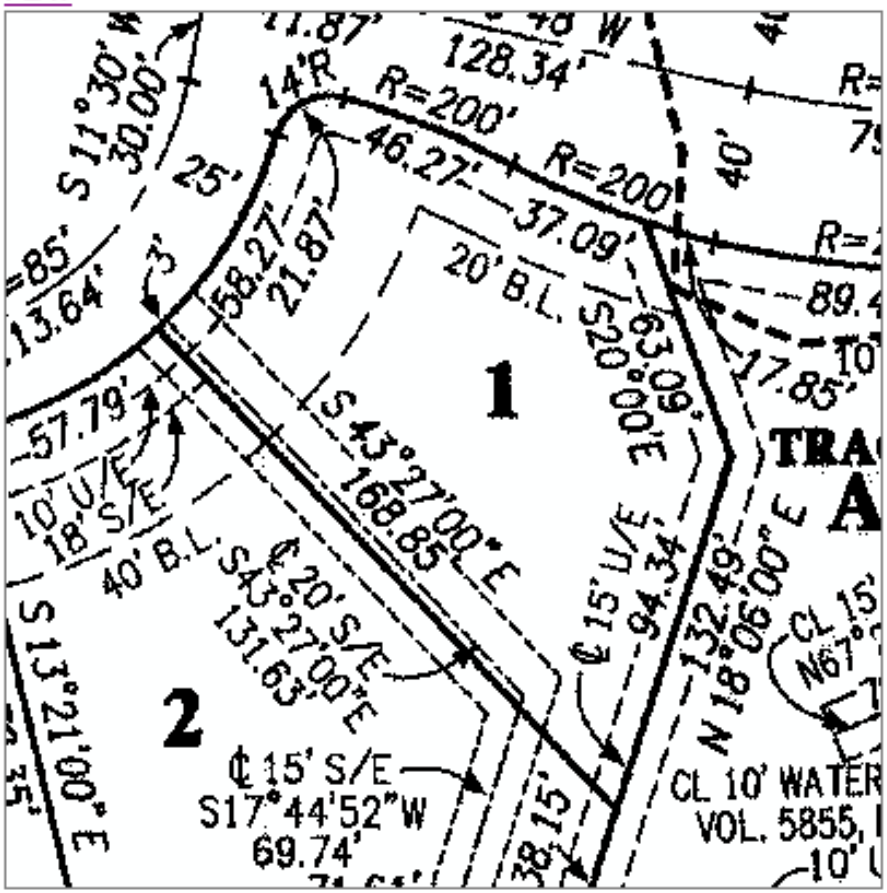

Plat Image Detail - COFFEE CREEK CROSSING SECOND PLAT



This plat image thumbnail may represent additional easement, setback, and right of way not found on the above property map. The image may not be a full representation of property restrictions and most recent document filings. Use mousewheel to zoom image.

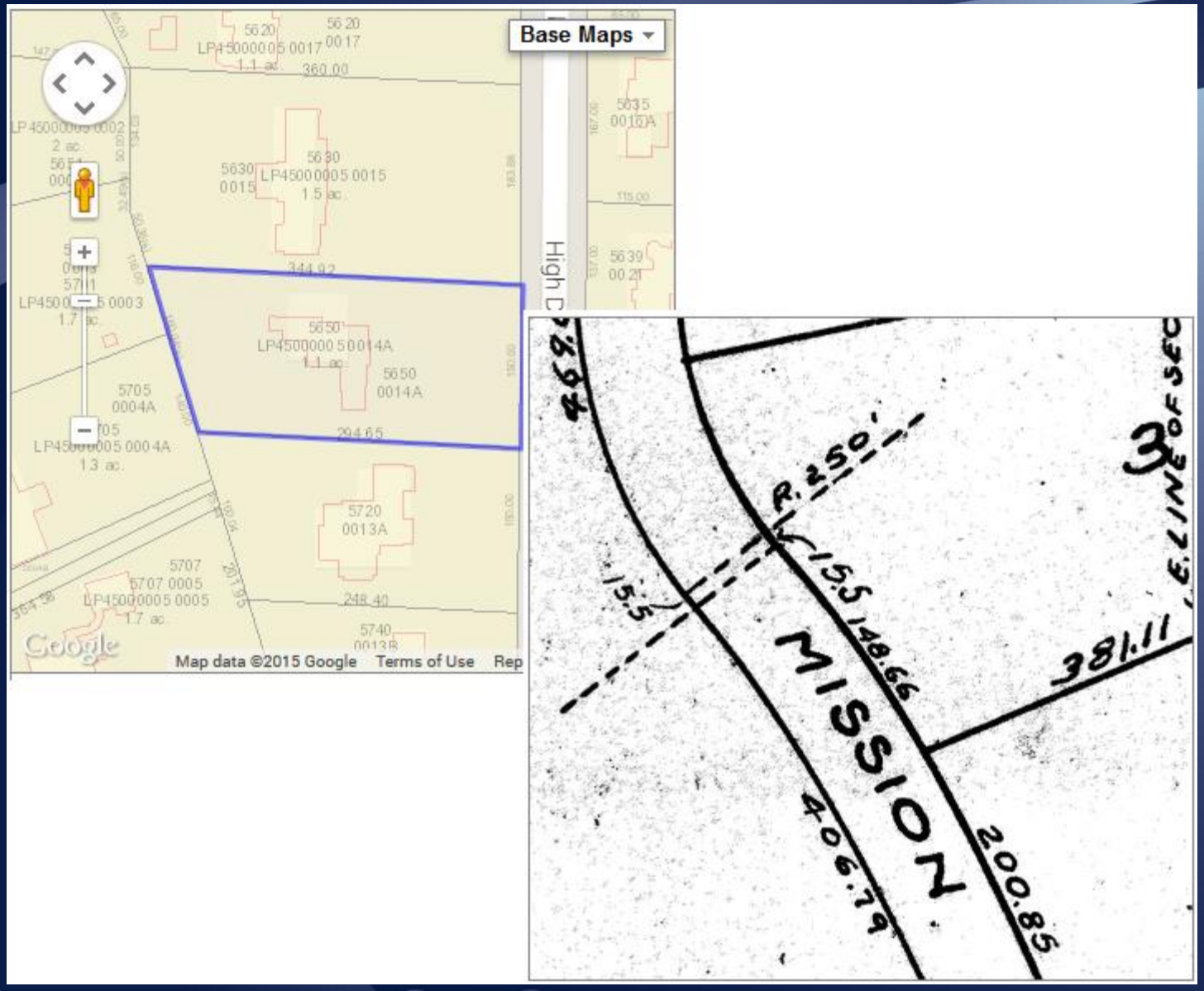
- Uh oh…

Click image thumbnail to display larger image.

Plat Image Detail - FAIRWAY (BLKS 3-5)

This plat image thumbnail may represent additional easement, setback, and right of way not found on the above property map. The image may not be a full representation of property restrictions and most recent document filings. Use mousewheel to zoom image.

Property Taxes - Where Your Property Tax Dollars Go



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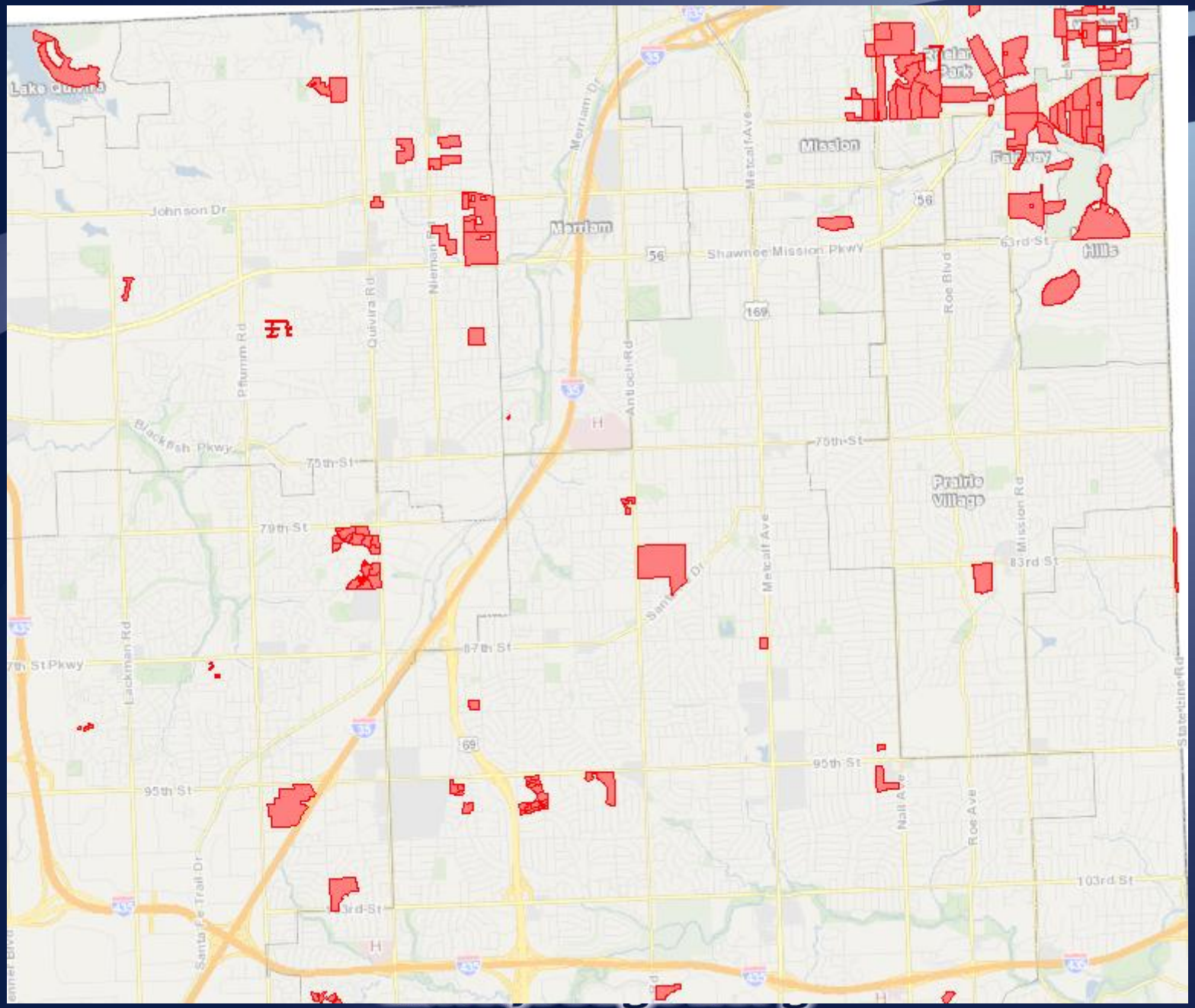
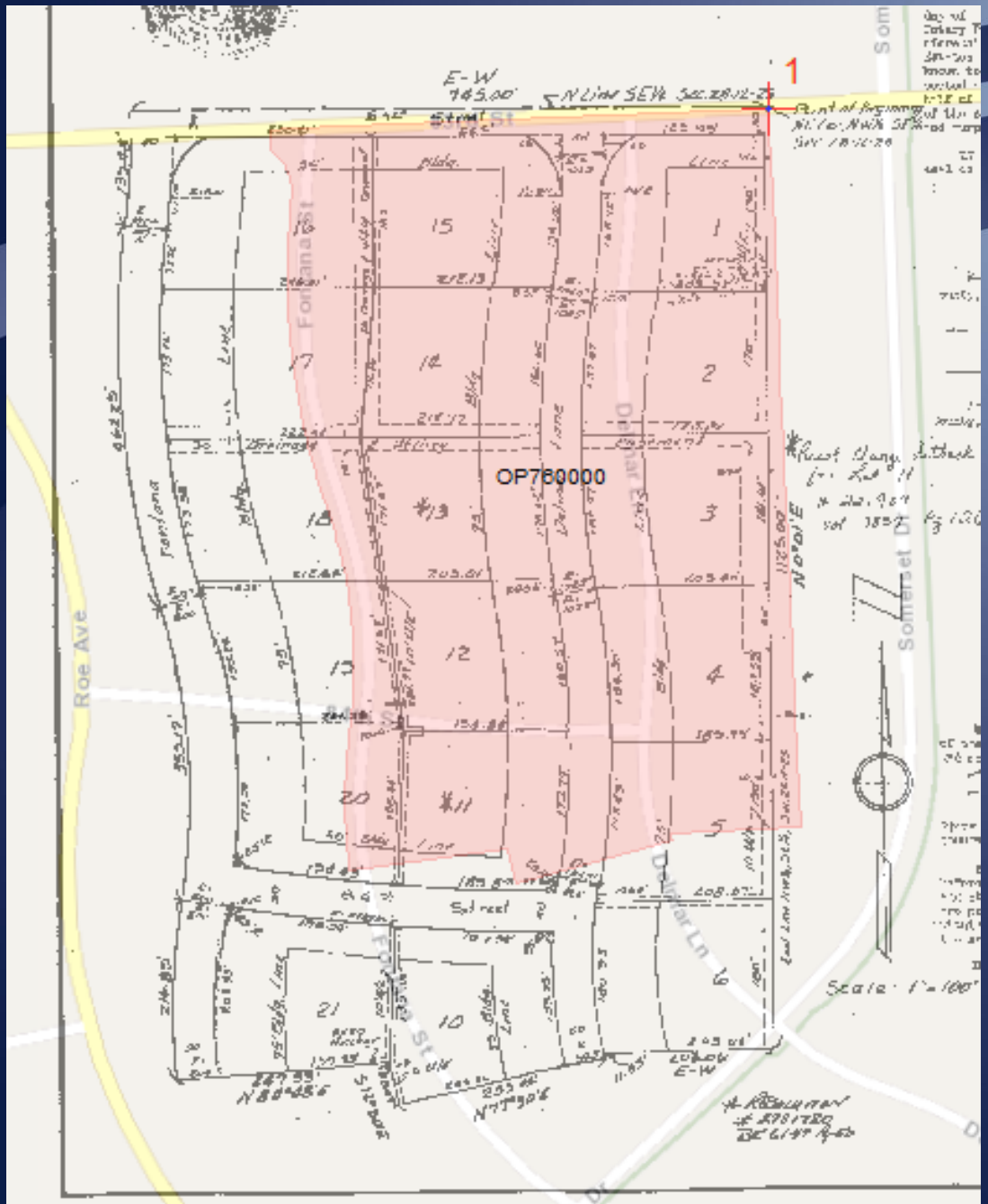
Need for QC & Cleanup

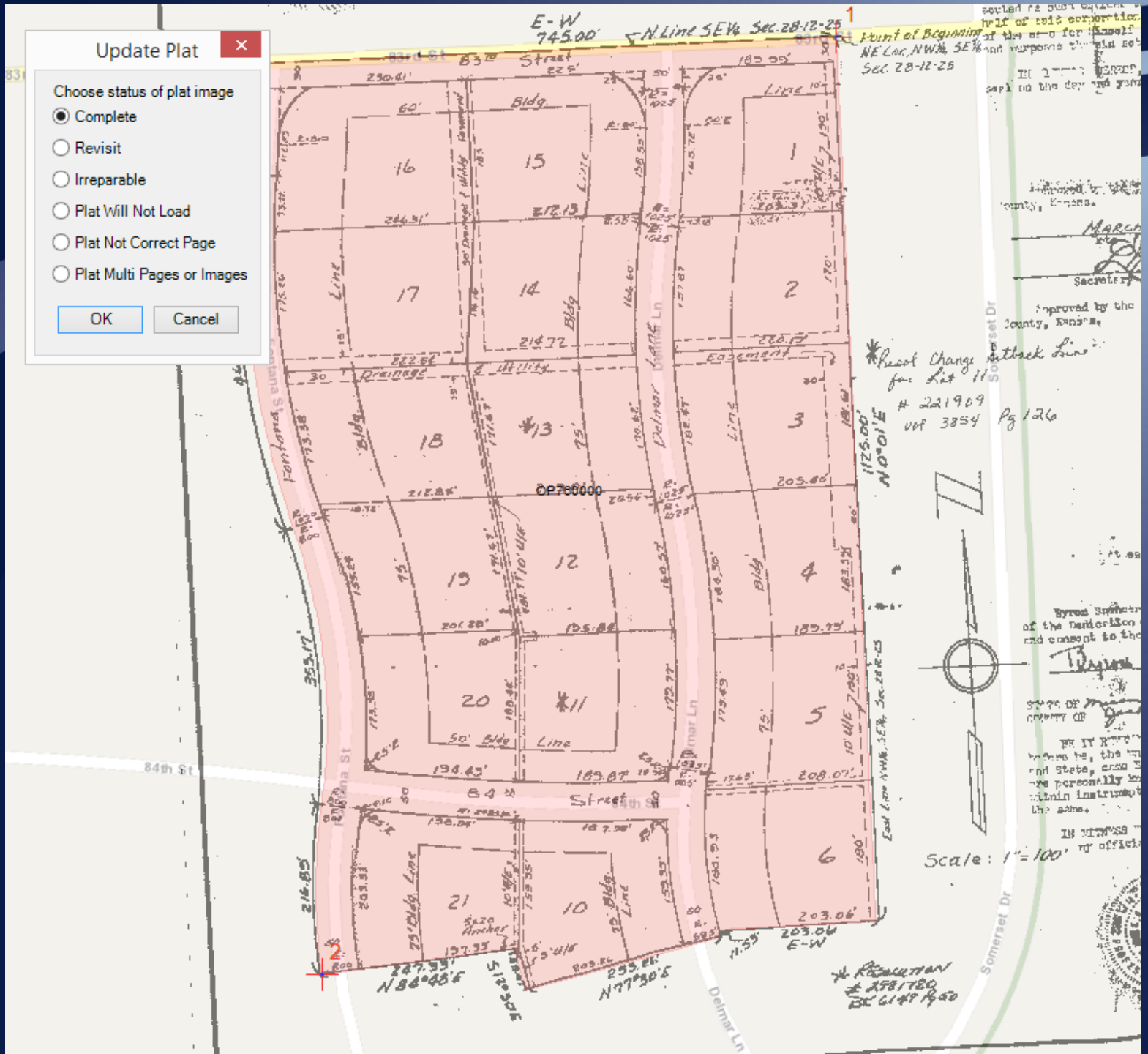
- Ran some file system scripts
- Built quick QC interface
  - http://ims.jocogov.org/locationservices/mapPlatQC.aspx
- Log results to table

- 8,919 Plats
- 75% passed QC
- 2,000 plat images to review – 30% complete


Lake Quivira
Merriam Dr
Metcalf Ave
Mission
Fairway
Johnson Dr
Merriam
56
Shawnee Mission Pkwy
63rd St
Hills
Roe Blvd
Nieman Rd
Quivira Rd
Pflumm Rd
169
Antioch Rd
Blackbob Pkwy
75th St
79th St
Prairie Village
Mission Rd
83rd St
Lackman Rd
87th St
Santa Fe Dr
69
95th St
Nall Ave
Roe Ave
103rd St
Santa Fe Trail Dr



1
OP760000
Roe Ave
Somerset Dr
Fontana St
Delmar Ln
Scale 1"=100'


Update Plat
Choose status of plat image
Complete
Revisit
Irreparable
Plat Will Not Load
Plat Not Correct Page
Plat Multi Pages or Images
OK
Cancel
E-W 745.00'
N Line SE¼ Sec. 28-12-25
Point of Beginning
NE Cor. NW¼ SE¼ Sec. 28-12-25
83rd Street
84th St
Delmar Lane
Somerset Dr
OP700000
Scale: 1" = 100'

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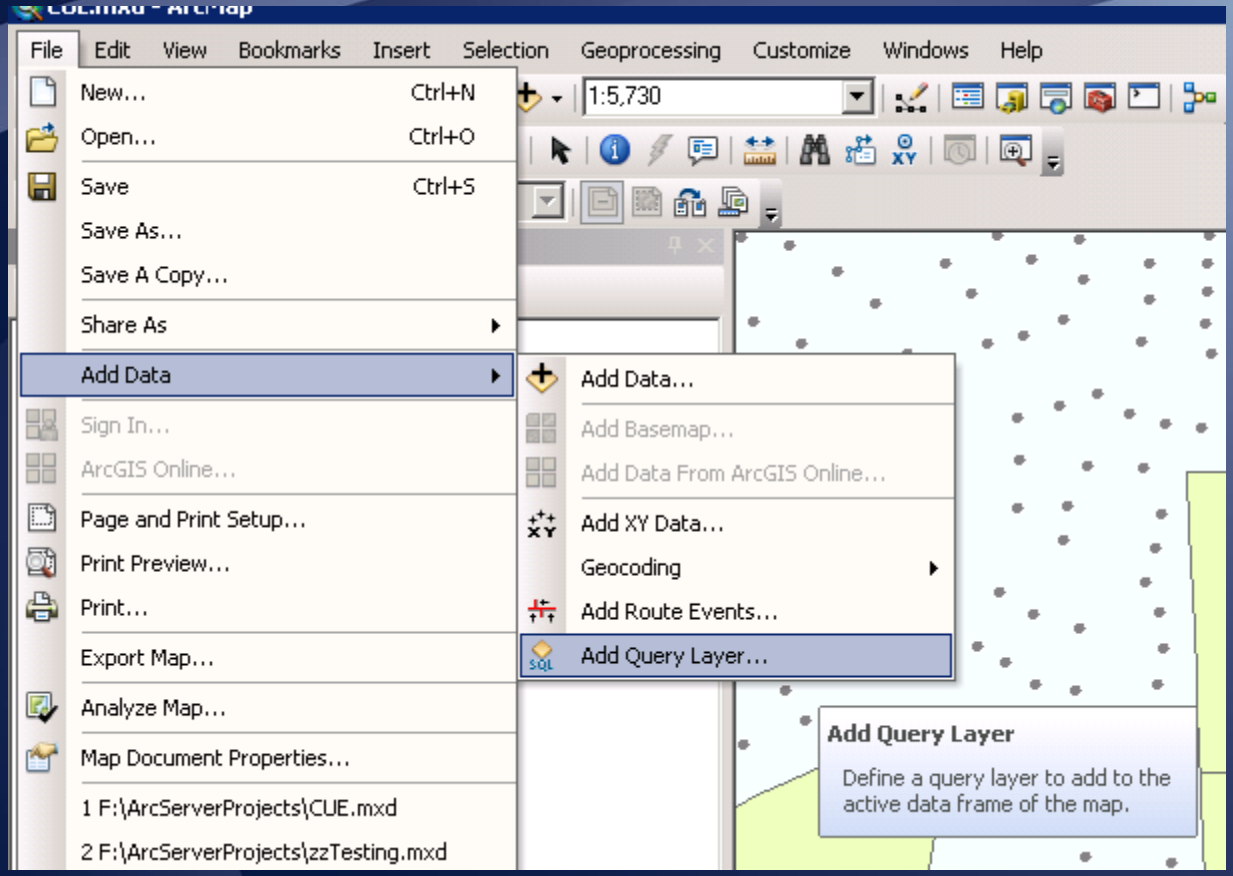
Query Layer Updates

- Use data that doesn't contain system geodatabase repository tables
- Provides ability to join related business tables & disparate sources on the fly to spatial data sources without the overhead of creating additional datasets
  - Benefit is displaying realtime updates to attribute tables without publishing datasets
- Use sql views to keep database logic on the database
  - much easier to manage & edit views than mxd
- Can edit via feature access enabled map service



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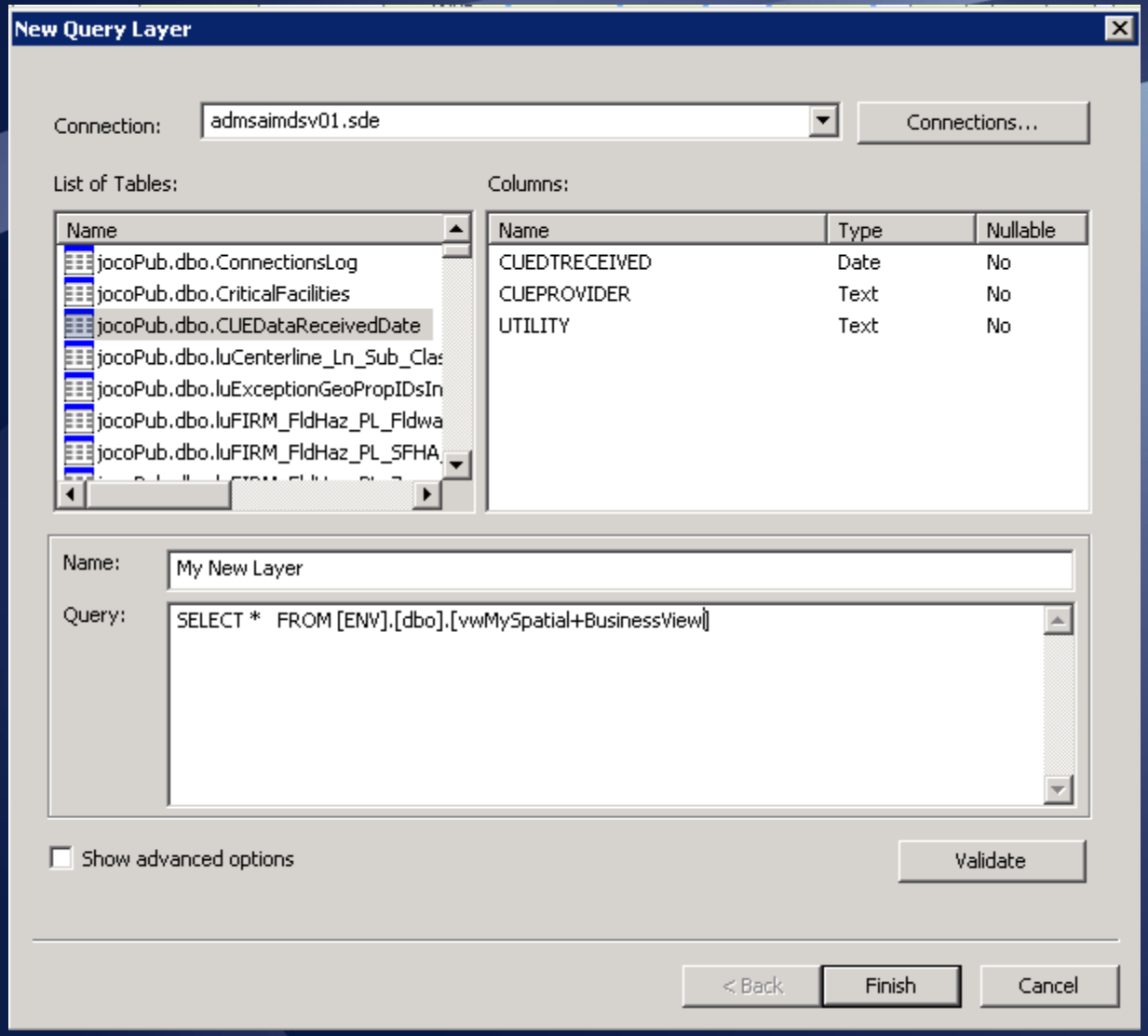
New Query Layer
Connection:
admsaimdsv01.sde
Connections...
List of Tables:
Columns:
Name
jocoPub.dbo.ConnectionsLog
jocoPub.dbo.CriticalFacilities
jocoPub.dbo.CUEDataReceivedDate
jocoPub.dbo.luCenterline_Ln_Sub_Cla
jocoPub.dbo.luExceptionGeoPropIDsIn
jocoPub.dbo.luFIRM_FldHaz_PL_Fldwa
jocoPub.dbo.luFIRM_FldHaz_PL_SFHA
Name
Type
Nullable
CUEDTRECEIVED
Date
No
CUEPROVIDER
Text
No
UTILITY
Text
No
Name:
My New Layer
Query:
SELECT * FROM [ENV].[dbo].[vwMySpatial+BusinessView]
Show advanced options
Validate
< Back
Finish
Cancel

Using SQL Views & Query Layers to make decisions - JCW Sewer Rehab

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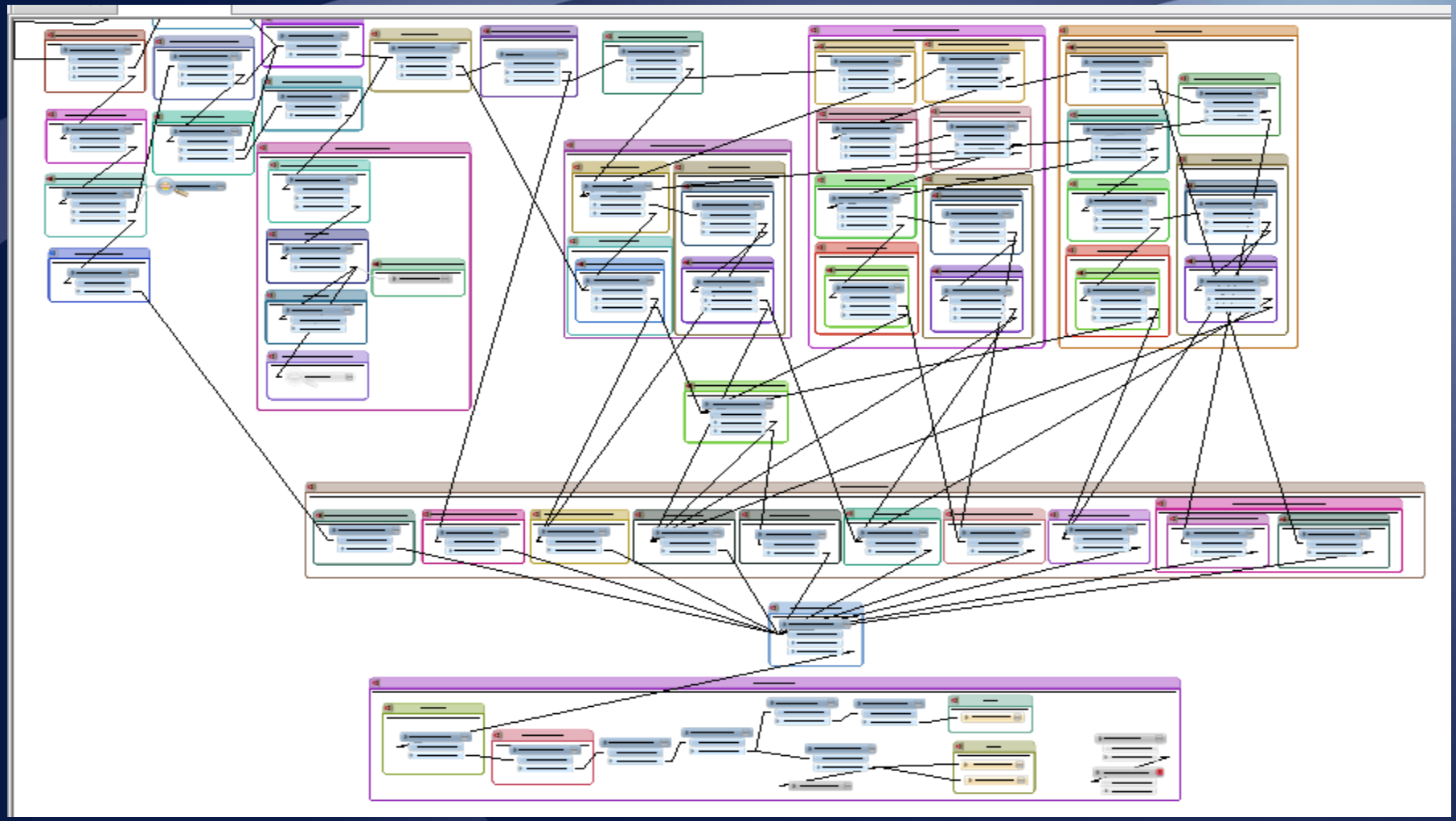
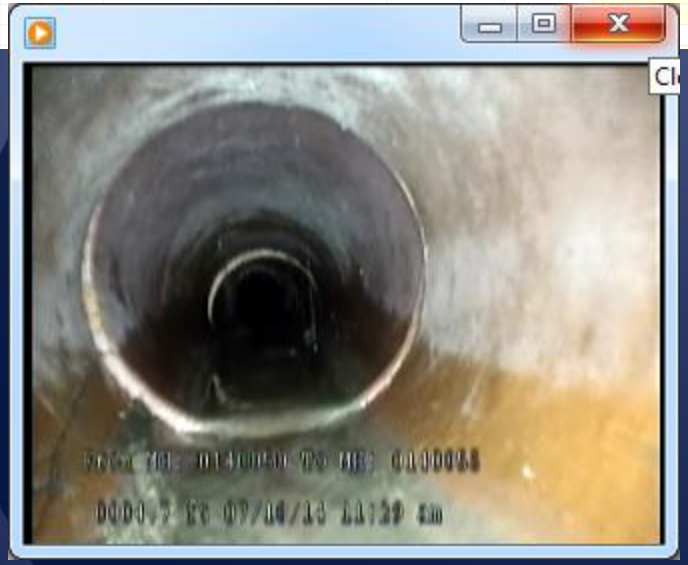
Line Inspection Model (FME)



Review Process

Results | Messages

	USMH	DSMH	StructuralAction	StructuralRiskScore	Diameter	Material	PointRepairCost	BuelerCleanCost	CIPPCost	PipeReplaceCost	CLEANING_COST	CCTV_COST	FinalActionCode	FinalAction	ReviewerCode	ReviewedBy	ReviewDate	FinalSRS	Comments
1	0101018	0101017	40 YR Monitor	19	10	Vitrified Clay Pipe	$13,750.00	$1,800.00	$2,516.00	$12,165.28	$254.36	$138.24	NULL	NULL	NULL	NULL	NULL	NULL	NULL
2	0101153	0101031	40 YR Monitor	14	8	Vitrified Clay Pipe	$13,750.00	$1,800.00	$1,323.79	$5,295.18	$135.32	$73.54	NULL	NULL	NULL	NULL	NULL	NULL	NULL
3	0101045	0101044	Point Repair	51	10	Vitrified Clay Pipe	$13,750.00	$1,800.00	$2,377.85	$11,497.27	$240.40	$130.65	75	Pipe Patch	2	Jeff Stacy	2014-09-01	NULL	Pipe patch
4	0101064	0101063	40 YR Monitor	9	8	Vitrified Clay Pipe	$13,750.00	$1,800.00	$440.26	$1,907.78	$45.00	$24.46	NULL	NULL	NULL	NULL	NULL	NULL	NULL
5	0101072	0101064	40 YR Monitor	9	8	Vitrified Clay Pipe	$13,750.00	$1,800.00	$1,231.67	$4,926.69	$125.90	$68.43	NULL	NULL	NULL	NULL	NULL	NULL	NULL
6	0101065	0101064	10 YR Monitor	32	8	Vitrified Clay Pipe	$13,750.00	$1,800.00	$2,448.44	$9,793.77	$250.29	$136.02	NULL	NULL	NULL	NULL	NULL	NULL	NULL
7	0101086	0101085	40 YR Monitor	9	8	Vitrified Clay Pipe	$13,750.00	$1,800.00	$5,836.60	$25,291.95	$596.63	$324.26	NULL	NULL	NULL	NULL	NULL	NULL	NULL
8	0101087	0101086	20 YR Monitor	9	8	Vitrified Clay Pipe	$13,750.00	$1,800.00	$7,054.03	$30,567.48	$721.08	$391.89	10	10 YR Monitor	2	Jeff Stacy	2014-09-01	NULL	Slipping
9	0101103	0101102	10 YR Monitor	30	8	Vitrified Clay Pipe	$13,750.00	$1,800.00	$2,550.19	$10,200.77	$260.69	$141.68	NULL	NULL	NULL	NULL	NULL	NULL	NULL
10	0101119	0101118	CIPP	46	8	Vitrified Clay Pipe	$13,750.00	$1,800.00	$6,939.00	$27,755.99	$709.32	$385.50	90	CIPP	1	Joe Barnes	2014-09-01	NULL	NULL
11	0101120	0101119	40 YR Monitor	9	8	PolyVinyl Chloride	$13,750.00	$1,800.00	$7,475.39	$29,901.58	$764.15	$415.30	NULL	NULL	NULL	NULL	NULL	NULL	NULL
12	0101122	0101121	40 YR Monitor	14	8	Vitrified Clay Pipe	$13,750.00	$1,800.00	$3,673.19	$15,917.16	$375.48	$204.07	NULL	NULL	NULL	NULL	NULL	NULL	NULL
13	0101126	0101121	10 YR Monitor	37	8	Vitrified Clay Pipe	$13,750.00	$1,800.00	$5,941.83	$23,767.33	$607.39	$330.10	NULL	NULL	NULL	NULL	NULL	NULL	NULL
14	0101142	0101141	10 YR Monitor	32	8	Vitrified Clay Pipe	$13,750.00	$1,800.00	$6,782.53	$32,405.40	$693.32	$376.81	NULL	NULL	NULL	NULL	NULL	NULL	NULL
15	0102004	0102001	40 YR Monitor	9	12	PolyVinyl Chloride	$13,750.00	$1,800.00	$266.75	$1,309.06	$25.19	$12.35	NULL	NULL	NULL	NULL	NULL	NULL	NULL
16	0102015	0102014	10 YR Monitor	35	8	Vitrified Clay Pipe	$13,750.00	$1,800.00	$925.03	$3,700.13	$94.56	$51.39	NULL	NULL	NULL	NULL	NULL	NULL	NULL
17	0102017	0102014	10 YR Monitor	39	8	Vitrified Clay Pipe	$13,750.00	$1,800.00	$2,587.94	$0.00	$264.54	$143.77	NULL	NULL	NULL	NULL	NULL	NULL	NULL
18	0102016	0102015	40 YR Monitor	9	8	Vitrified Clay Pipe	$13,750.00	$1,800.00	$9,303.65	$37,214.62	$951.04	$516.87	NULL	NULL	NULL	NULL	NULL	NULL	NULL
19	0102018	0102017	40 YR Monitor	14	8	Vitrified Clay Pipe							NULL	NULL	NULL	NULL	NULL	NULL	NULL
20	0102031	0102030	10 YR Monitor	20	8	Vitrified Clay Pipe								Point Repair	2	Jeff Stacy	2014-11-04	NULL	Hole at crown of pipe 138' DS



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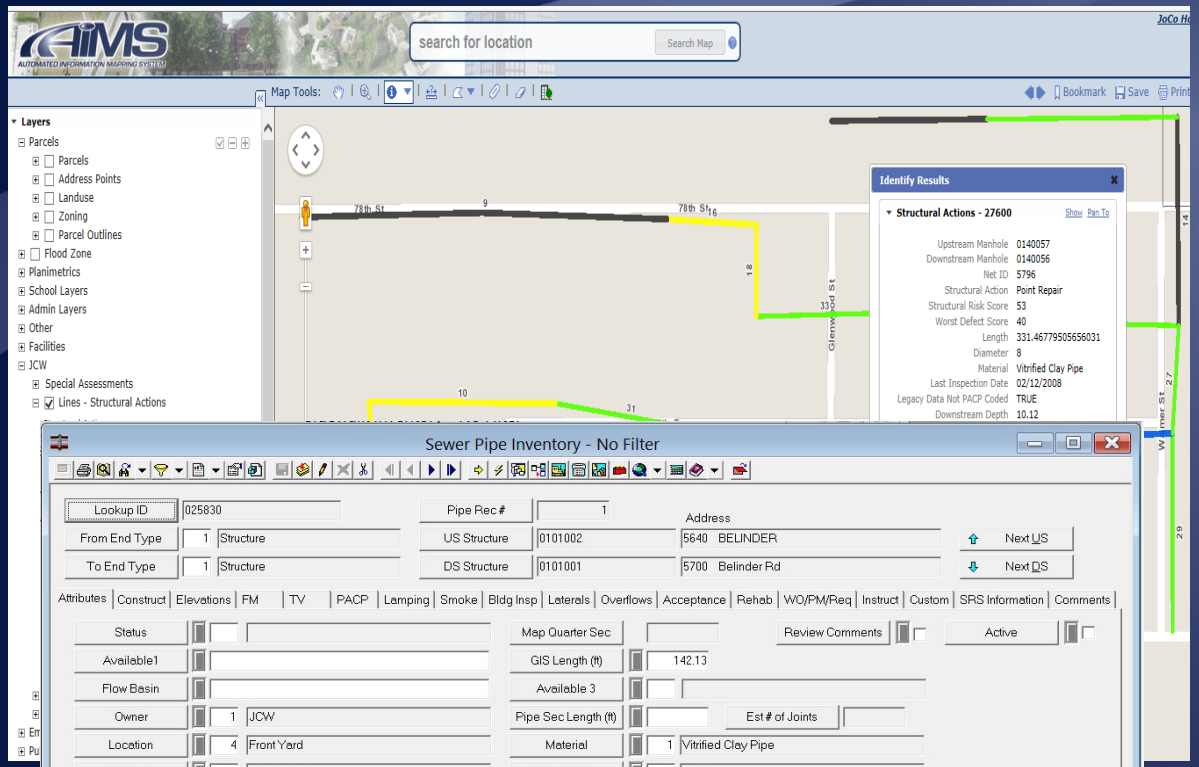
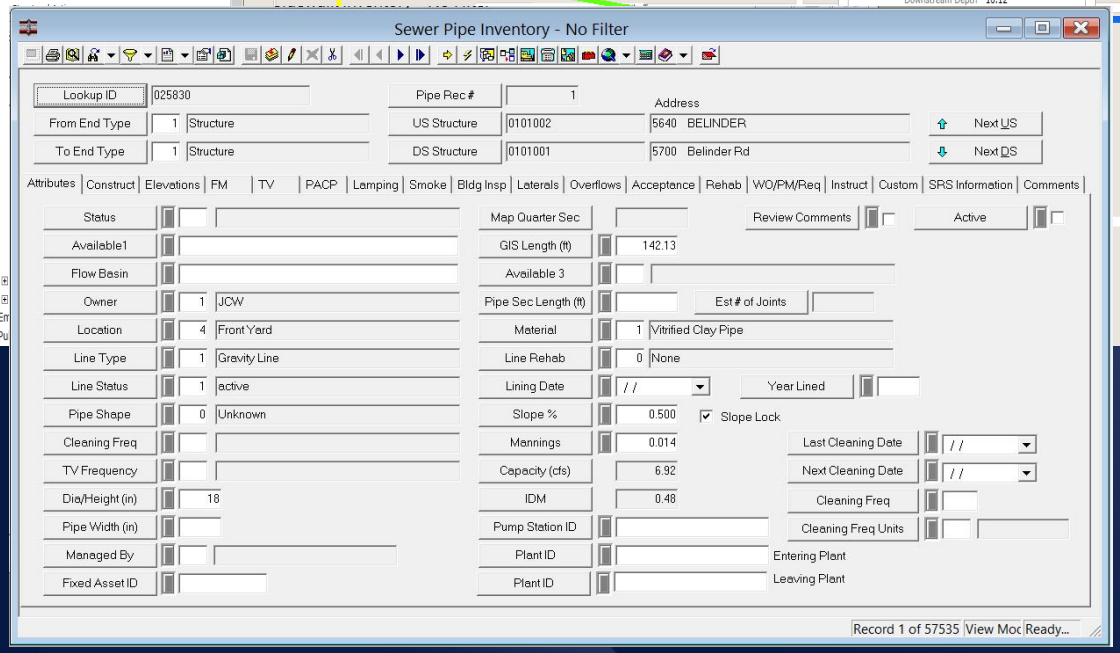
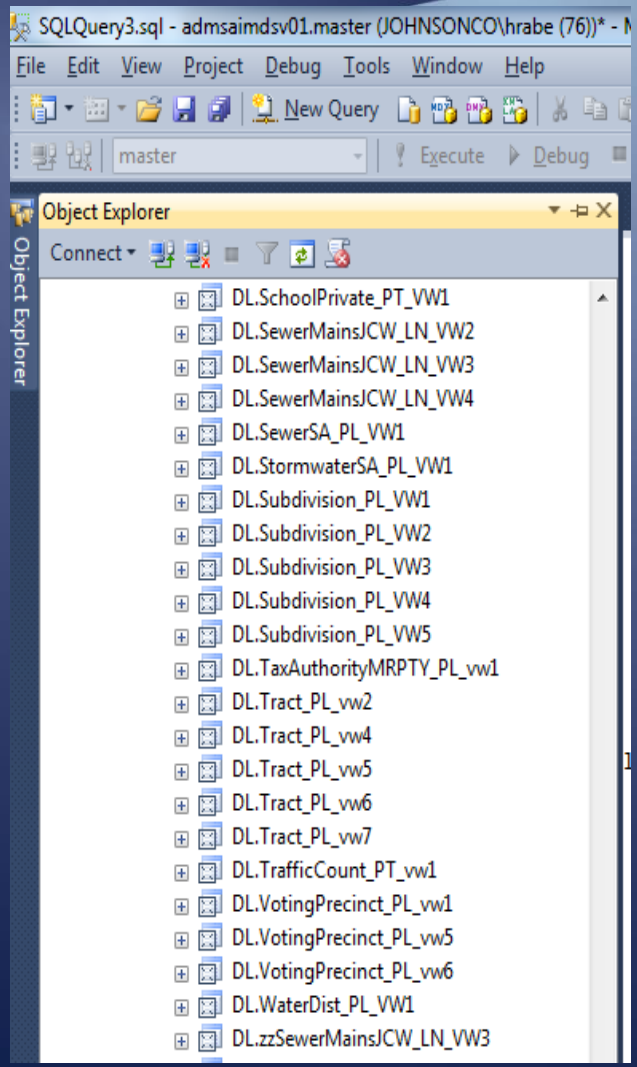
Needs

- Map based review
- Place to make revisions –web editing?
- Way to feed revisions back to Lucity

Decision







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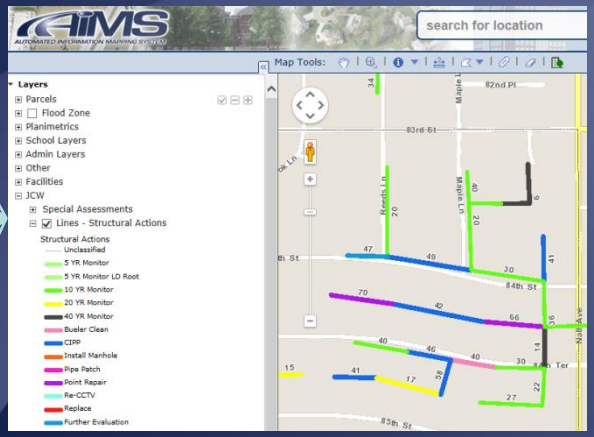
What did SQL VW's/query layers allow us to do?

Owner	1	JCW
Location	4	Front Yard
Line Type	1	Gravity Line
Line Status	1	active
Pipe Shape	0	Unknown

Results | Messages

	StructuralAction	StructuralRiskScore
1	40 YR Monitor	19
2	40 YR Monitor	14
3	Point Repair	51

jcw.DLJCW.LWC1_GPS_PT
jcw.DLJCW.MAINS_LN
jcw.DLJCW.MANHOLES_PT



Contents | Preview | Description

Name	Type
AddVantage	Map Service
AIRORion	Map Service
CaseWorkerResourceCenter2	Map Service
CrimeMappingSecure	Map Service
CUE	Map Service
Districts	Map Service
Editing_HOA	Map Service
Editing_HOA	Feature Service
Edits	Map Service
Edits	Feature Service
EnvSepticsMap	Map Service
ImageryCurrentESRI	Map Service
ImageryCurrentGoogle	Map Service
ImageryCurrentMICOGoogle	Map Service
ImageryCurrentSP	Map Service
ImageryGoogle	Map Service
Operations	Map Service
Parcels3	Map Service
Plani	Map Service
RTA	Map Service
SH_SignEdit	Map Service
SH_SignEdit	Feature Service
Transportation	Map Service
USDEdits	Map Service
USDedits	Feature Service
USDMap	Map Service
zzTesting	Map Service

ArcGIS 10.2.2 for Desktop

ArcGIS 10.2.2 for Desktop
License type: Advanced
Copyright ©1999-2014 Esri Inc. All Rights Reserved

- DL.SewerMainsJCW_LN_VW4
  - Columns
    - USMH (char(20), null)
    - DSMH (char(20), null)
    - NetID (int, null)
    - AbandonedSurvey (char(20), null)
    - StructuralAction (char(20), null)
    - StructuralRiskScore (int, null)
    - WorstDefectScore (int, null)
    - Length (float, null)
    - Diameter (int, null)
    - Material (char(20), null)

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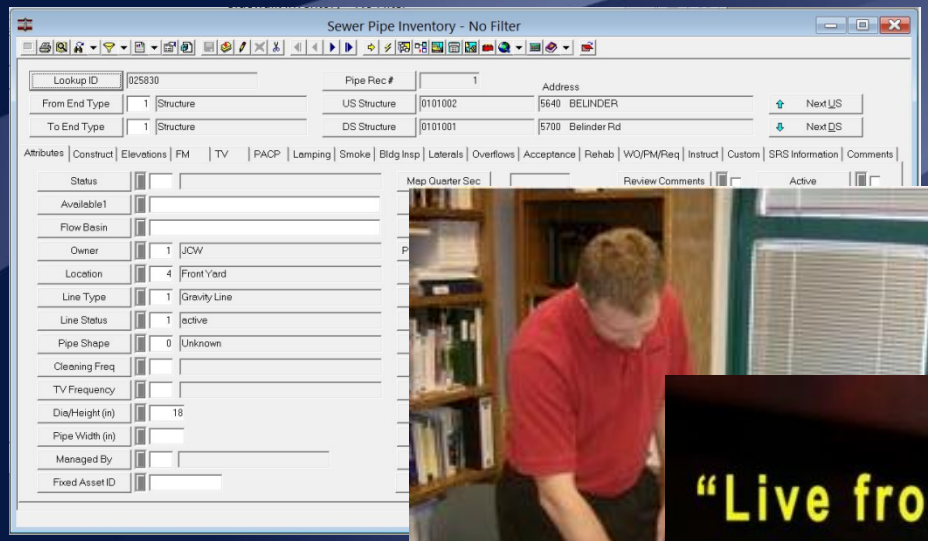
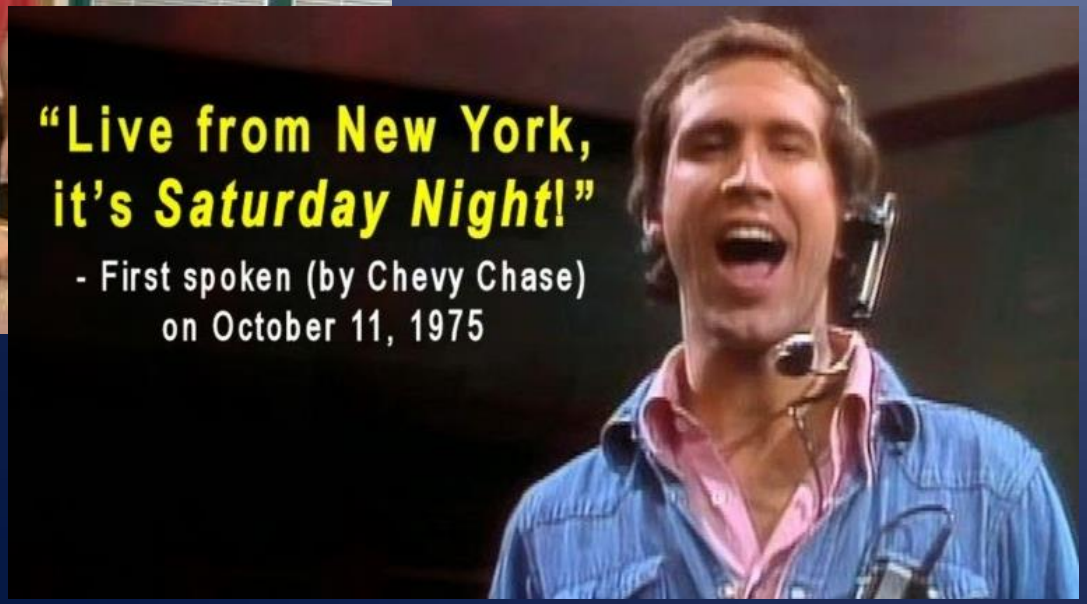
And how does JCW benefit?





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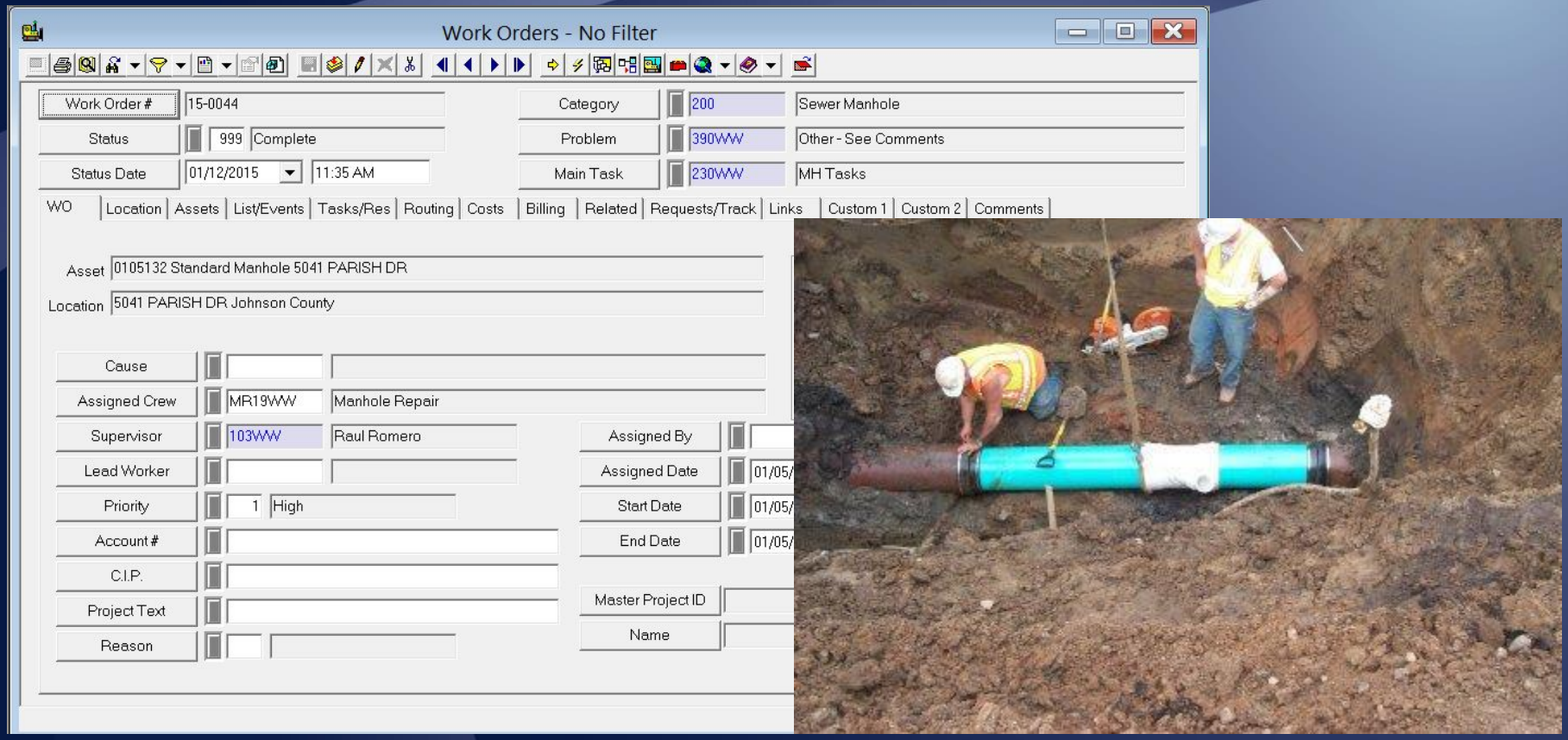
The *Ultimate* benefit



Better Decision Making

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Create Views

- Don’t put this in your .mxd

```
SELECT jocoPub.DL.PROPERTY_PL.SHAPE, jocoPub.DL.PROPERTY_PL.TaxUnit, jocoPub.DL.PROPERTY_PL.Own1Name AS Owner1Name,
                tbl.ObjectID, tbl.GeoPropID, tbl.TaxPropID, tbl.AreaCAcre, tbl.LBCSFunctn,
                tbl.in_ord, tbl.IsRightofWay, tbl.IsEnvSepticPermit, tbl.IsJCWSewerSA,
                tbl.IsJCWBilled, tbl.IsJCWOasisSpecial, tbl.IsJCWLaresSpecial, tbl.Codes,
                tbl.JCWOasisSpecialValue, tbl.JCWOASISSpecialCodes,
                tbl.JCWLaresSpecialValue, tbl.JCWLaresSpecialCodes, tbl.AsOf, tbl.URL_OnlineMaps, tbl.URL_TaxBill
FROM (SELECT DISTINCT ObjectID, GeoPropID, TaxPropID, AreaCAcre, LBCSFunctn, in_ord, IsRightofWay, IsEnvSepticPermit,
                      IsJCWSewerSA, IsJCWBilled, IsJCWOasisSpecial, IsJCWLaresSpecial, Codes,
                      JCWOasisSpecialValue, JCWOASISSpecialCodes, JCWLaresSpecialValue, JCWLaresSpecialCodes, AsOf,
                      'http://maps.jocogov.org/ims/?sval=' + GeoPropID AS URL_OnlineMaps,
                      'http://taxbill.jocogov.org/retaxbill.aspx?taxYear=' + CONVERT(char(4),
                      YEAR(GETDATE()) - (CASE WHEN month(GetDate()) < 11 THEN 1 ELSE 0 END)) + '&parcelID=' + TaxPropID AS URL_TaxBill
      FROM dbo.jcwParcelConditions
      WHERE (IsRightofWay = 0)) AS tbl LEFT OUTER JOIN jocoPub.DL.PROPERTY_PL ON tbl.ObjectID = jocoPub.DL.PROPERTY_PL.OBJECTID
```

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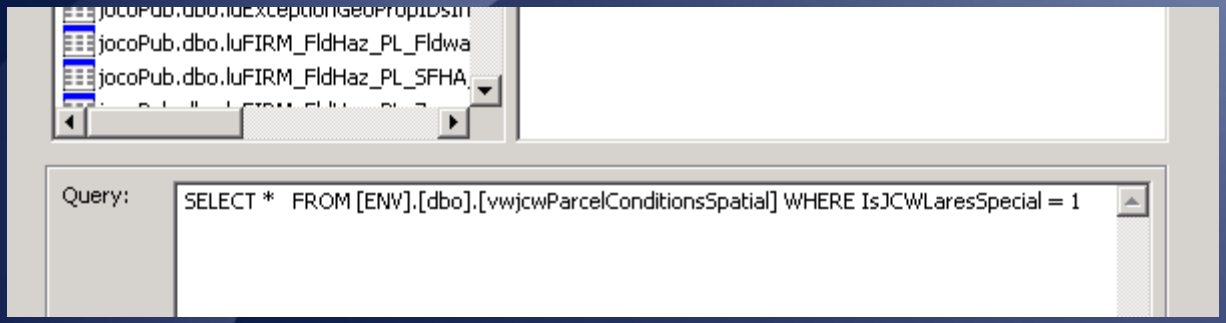
```
SELECT        jocoPub.DL.PROPERTY_PL.SHAPE,
jocoPub.DL.PROPERTY_PL.TaxUnit, jocoPub.DL.PROPERTY_PL.Own1Name AS
Owner1Name, tbl.ObjectID, tbl.GeoPropID, tbl.TaxPropID, tbl.AreaCAcre,
tbl.LBCSFunctn,
                         tbl.in_ord, tbl.IsRightofWay,
tbl.IsEnvSepticPermit, tbl.IsJCWSewerSA, tbl.IsJCWBilled,
tbl.IsJCWOasisSpecial, tbl.IsJCWLaresSpecial, tbl.Codes,
tbl.JCWOasisSpecialValue, tbl.JCWOASISSpecialCodes,
                         tbl.JCWLaresSpecialValue,
tbl.JCWLaresSpecialCodes, tbl.AsOf, tbl.URL_OnlineMaps,
tbl.URL_TaxBill
FROM            (SELECT DISTINCT
                                                  ObjectID,
GeoPropID, TaxPropID, AreaCAcre, LBCSFunctn, in_ord, IsRightofWay,
IsEnvSepticPermit, IsJCWSewerSA, IsJCWBilled, IsJCWOasisSpecial,
IsJCWLaresSpecial, Codes,

JCWOasisSpecialValue, JCWOASISSpecialCodes, JCWLaresSpecialValue,
JCWLaresSpecialCodes, AsOf, 'http://maps.jocogov.org/ims/?sval=' +
GeoPropID AS URL_OnlineMaps,

'http://taxbill.jocogov.org/retaxbill.aspx?taxYear=' + CONVERT(char
(4), YEAR(GETDATE()) - (CASE WHEN month(GetDate()) < 11 THEN 1 ELSE 0
END)) + '&parcelID=' + TaxPropID AS URL_TaxBill
                          FROM            dbo.jcwParcelConditions
                          WHERE        (IsRightofWay = 0)) AS tbl LEFT
OUTER JOIN
                         jocoPub.DL.PROPERTY_PL ON tbl.ObjectID =
jocoPub.DL.PROPERTY_PL.OBJECTID
```



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JCW & Special Assessments

```
SELECT *   FROM jocoPub.dbo.vwAddress_PT_JCWBilledParcels
SELECT *   FROM [ENV].[dbo].[vwjcwParcelConditionsSpatial] WHERE IsJCWLaresSpecial = 1
SELECT *   FROM [ENV].[dbo].[vwjcwParcelConditionsSpatial] WHERE IsJCWOasisSpecial = 1
SELECT *   FROM [ENV].[dbo].[vwjcwParcelConditionsSpatial] WHERE IsJCWSewerSA = 1 AND IsJCWBilled = 0
       AND IsJCWOasisSpecial=0 AND IsJCWLaresSpecial = 0  AND (LBCSFunctn not like '1155'
       AND (Owner1Name not like 'JO% CO%' and Owner1Name not like 'CITY OF%')
```

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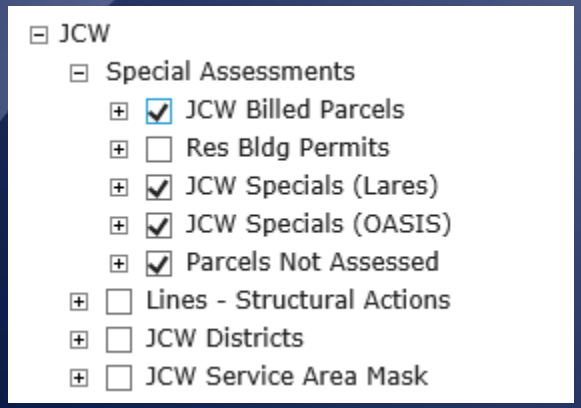
JCW & Special Assessments



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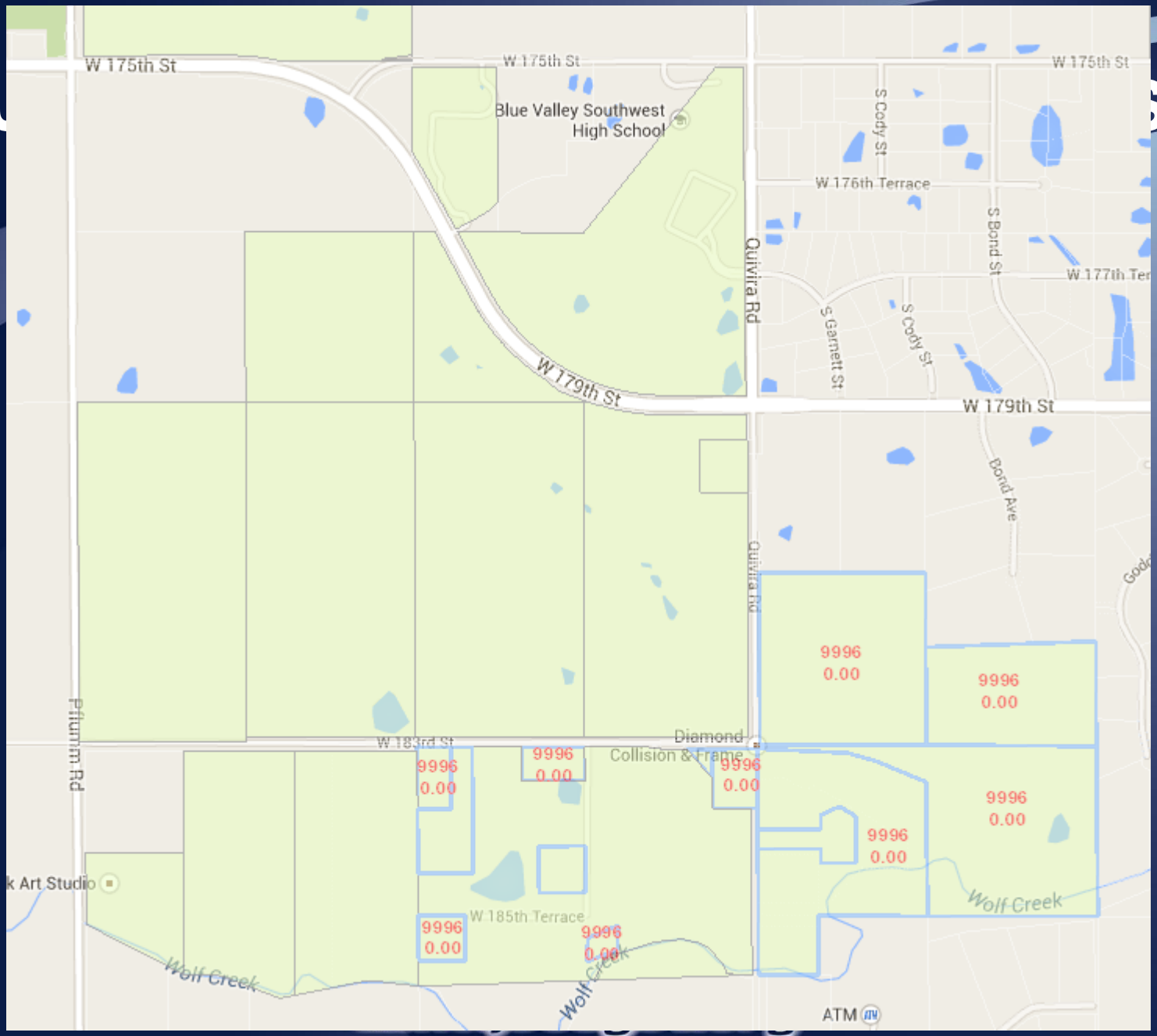
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W 175th St
W 175th St
Blue Valley Southwest High School
S Cody St
W 176th Terrace
S Bond St
W 177th Ter
Quivira Rd
S Garnett St
S Cody St
W 179th St
W 179th St
Bond Ave
Quivira Rd
Pflumm Rd
W 183rd St
Diamond Collision & Frame
9996 0.00
9996 0.00
9996 0.00
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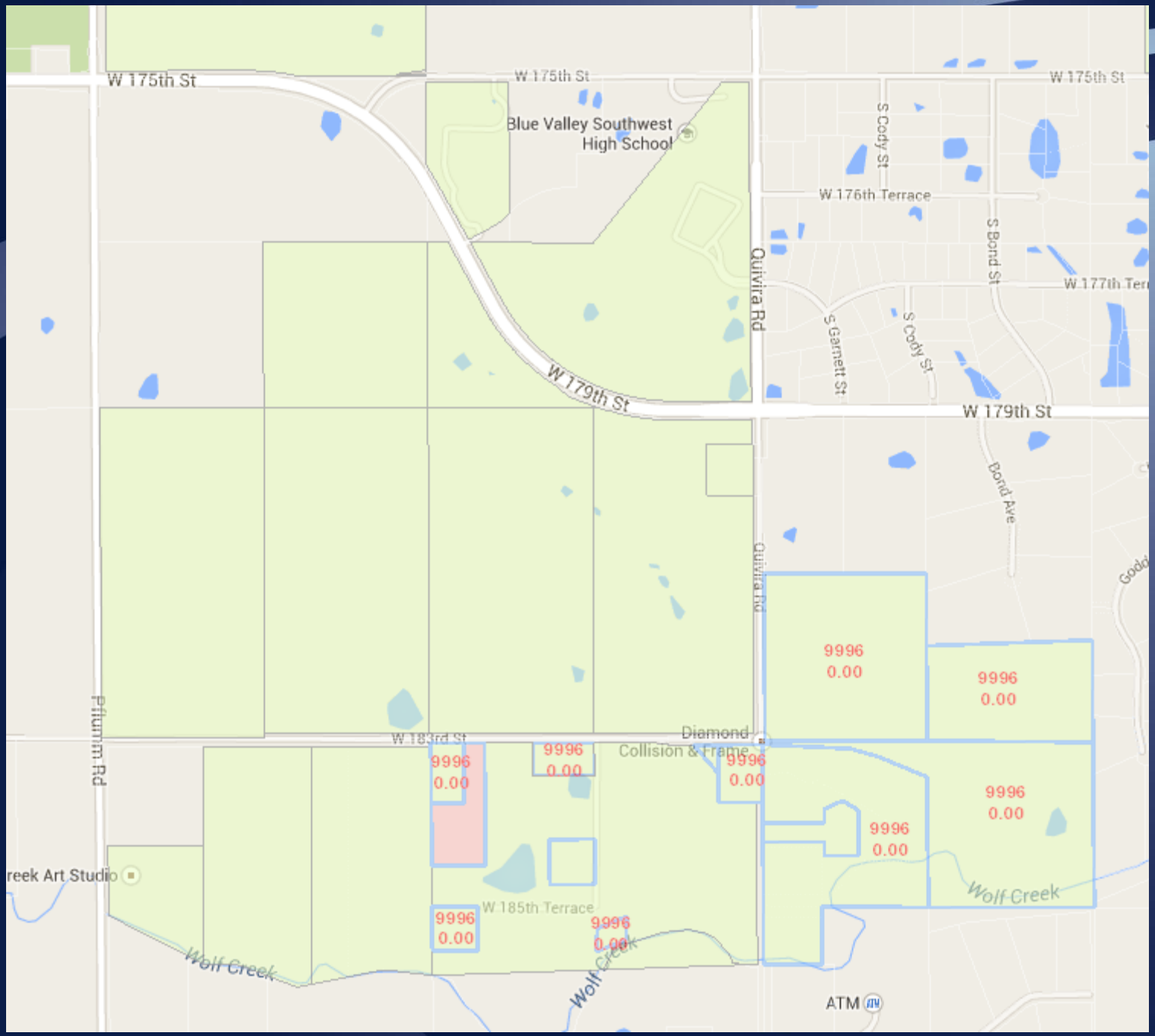
9996 0.00
9996 0.00
W 185th Terrace
Wolf Creek
Wolf Creek
Wolf Creek
ATM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W 175th St
W 175th St
Blue Valley Southwest High School
S Cody St
W 176th Terrace
S Bond St
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Quivira Rd
S Garnett St
S Cody St
W 179th St
W 179th St
Bond Ave
Quivira Rd
Pflumm Rd
W 183rd St
Diamond Collision & Frame
9996 0.00
9996 0.00
9996 0.00
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9996 0.00
W 185th Terrace
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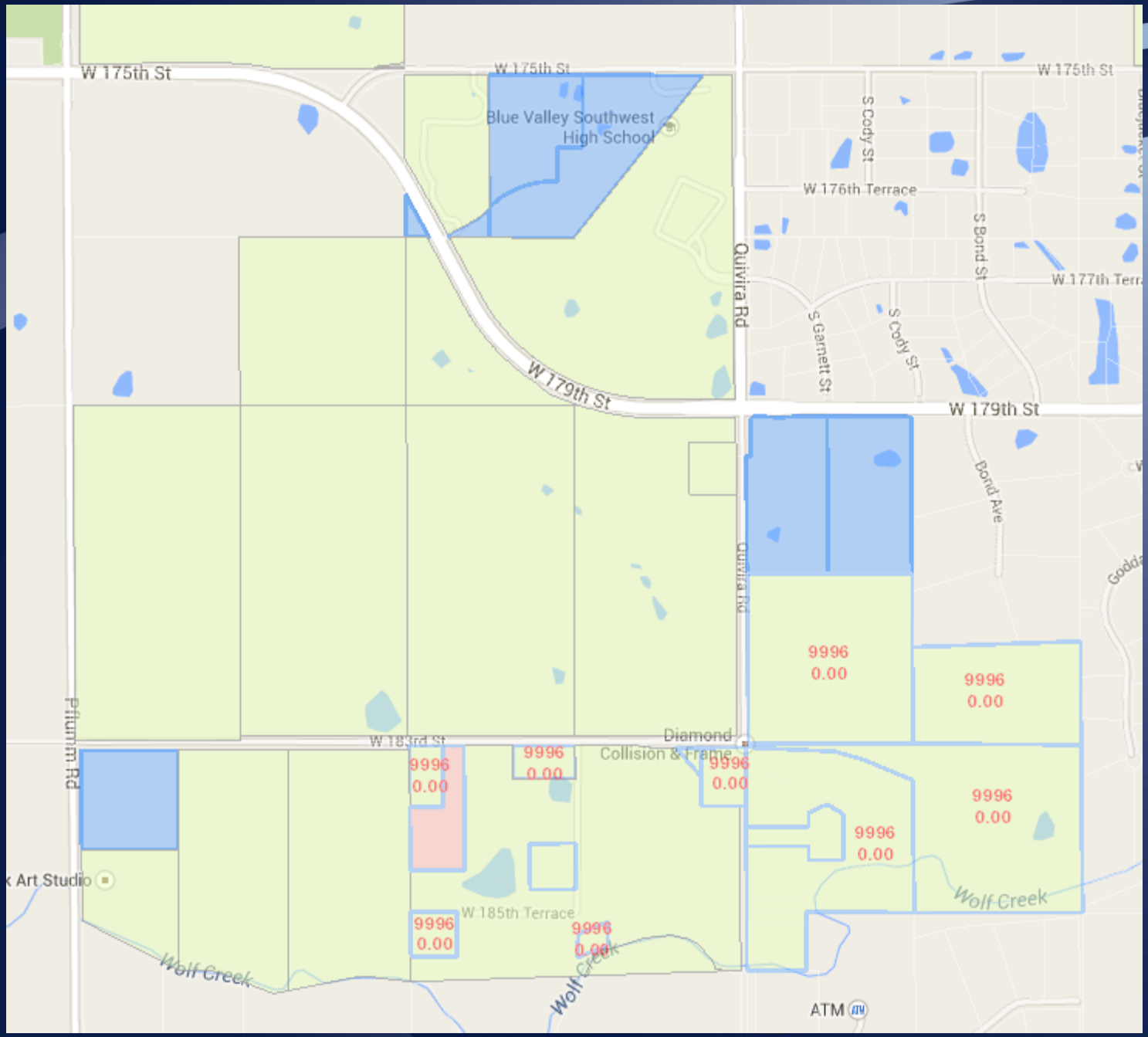
Wolf Creek
Wolf Creek
Wolf Creek
ATM


W 175th St
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W 175th St
Blue Valley Southwest High School
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W 176th Terrace
S Bond St
W 177th Terr
Quivira Rd
S Garnett St
S Cody St
W 179th St
W 179th St
Bond Ave
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Pflumm Rd
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W 185th Terrace
Wolf Creek
Wolf Creek
Wolf Creek
ATM

NP09150000.0T0U
2.1 ac.
NP09150000.0T0N
4.2 ac.
NP09150000.0T0C
1.8 ac.
NP09150000.0T0S
1.3 ac.
NP09150000.0T0A
2 ac.
9996
108.66
9996
0.00
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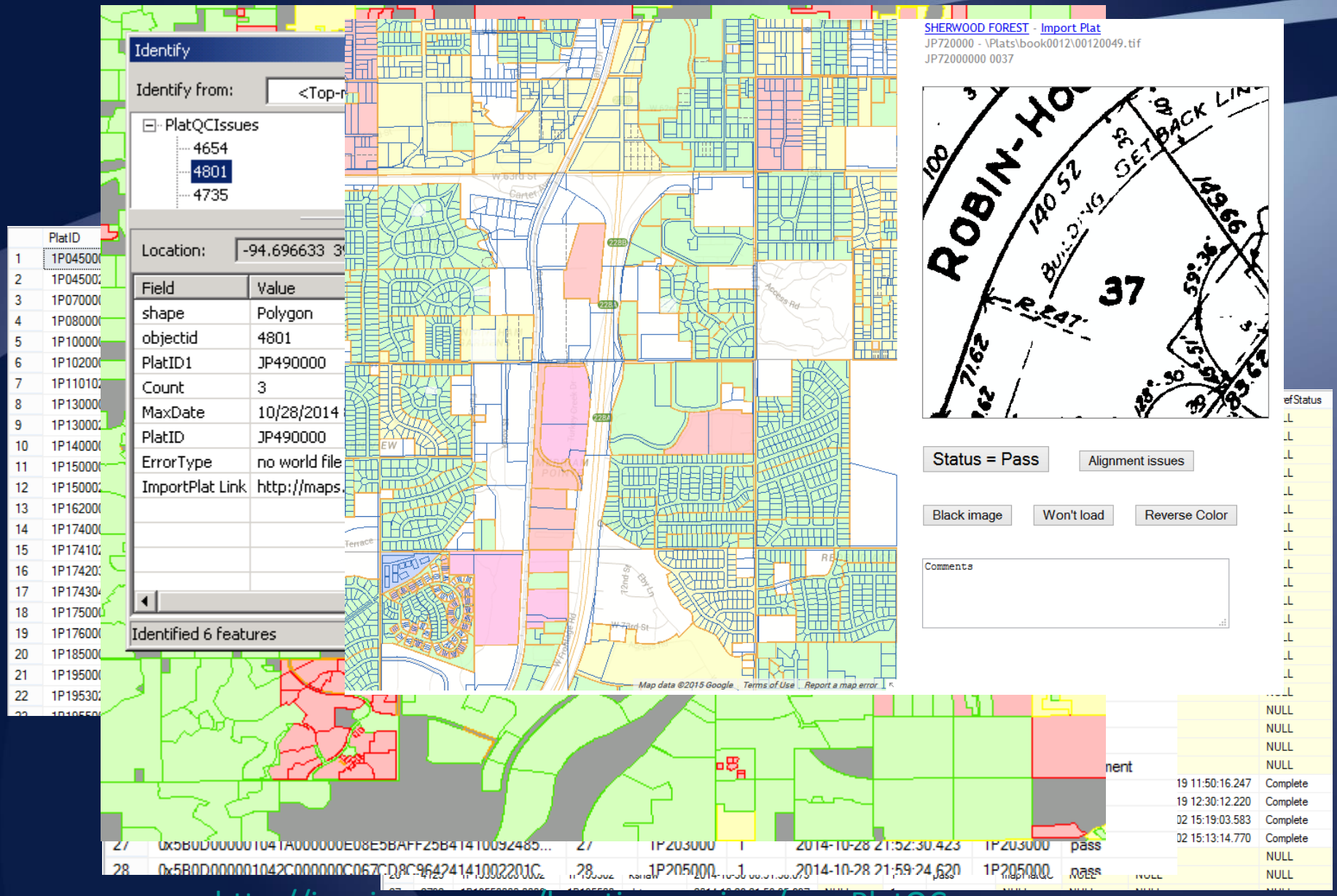
National Weather Service

Plat QC

- Real-time display of business table updates.



- http://ims.jocogov.org/locationservices/mapPlatQC.aspx

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SQL Spatial

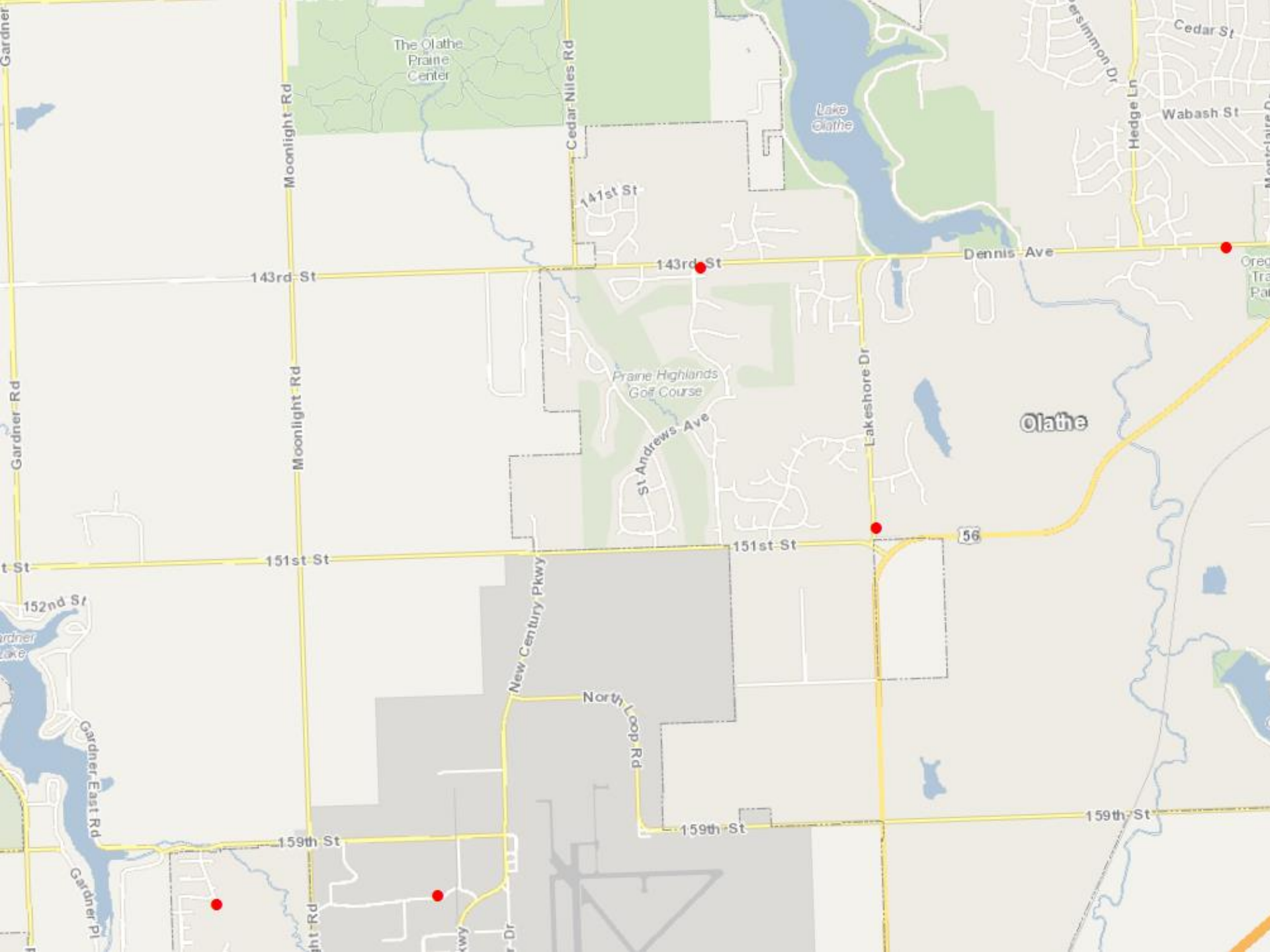
- Can use SQL Spatial methods to create view that do the spatial processing (geoprocessing) on fly.

e.g. Geometry.STBuffer(500)

Use SQL Spatial

- SIRENS

  SELECT TOP 100 PERCENT OBJECTID, SHAPE FROM SIREN_PT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Cedar Niles Rd
Moonlight Rd
Lake Olathe
Cedar St
Wabash St
Hedge Ln
141st St
143rd St
Dennis Ave
Prairie Highlands Golf Course
St Andrews Ave
Lakeshore Dr
Olathe
Gardner Rd
56
151st St
152nd St
New Century Pkwy
North Loop Rd
159th St
Gardner East Rd

Use SQL Spatial

- SIRENS

```
SELECT TOP 100 PERCENT OBJECTID, SHAPE FROM SIREN_PT
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- BUFFER

```
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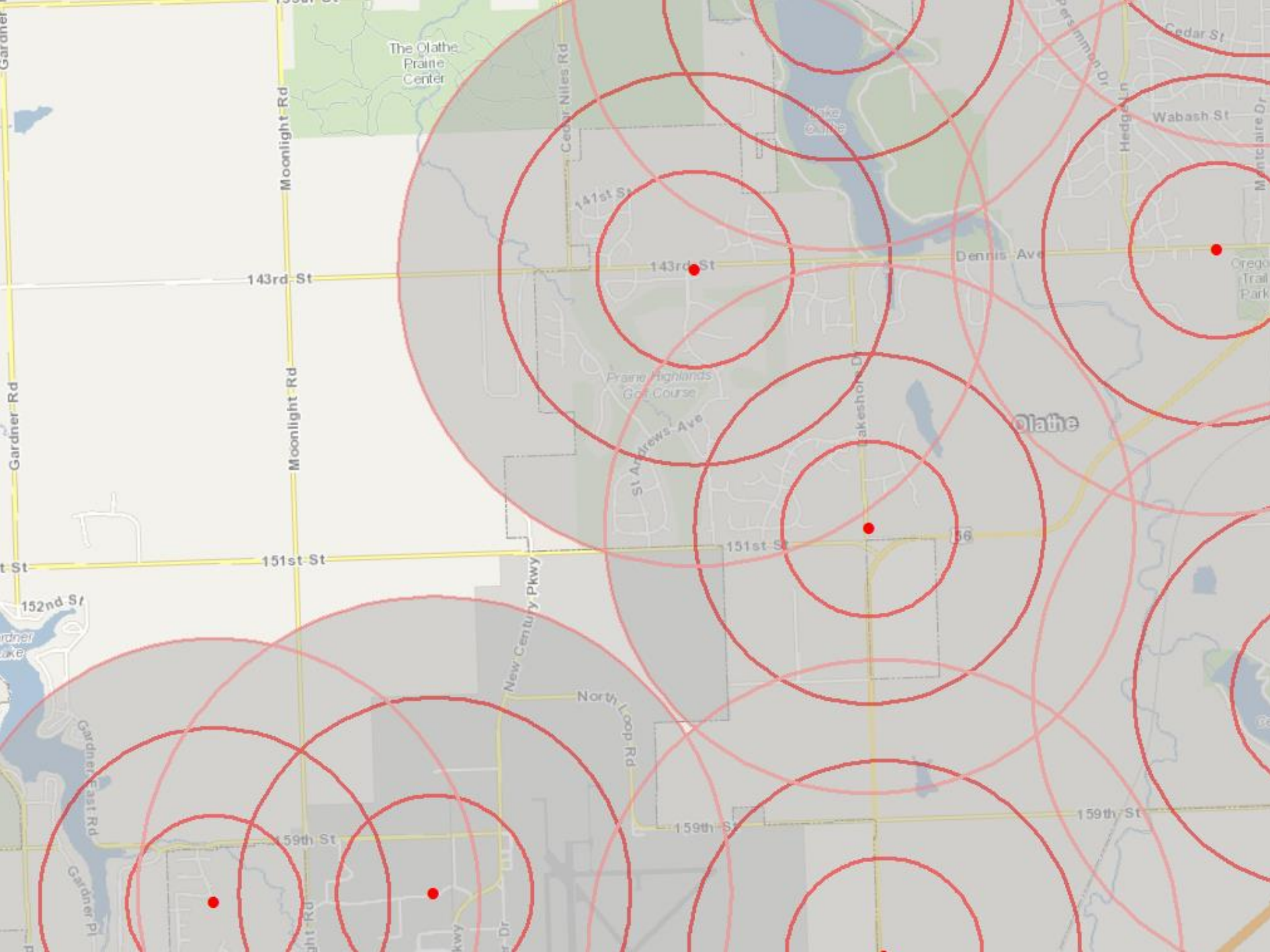
SHAPE.STBuffer(RADIUS_FT) [SHAPE]
FROM SIREN_PT
```


The Olathe Prairie Center
Moonlight Rd
Cedar Niles Rd
141st St
143rd St
Dennis Ave
Cedar St
Wabash St
Hedge Ln
Gardner Rd
Prairie Highlands Golf Course
St Andrews Ave
Lakeshore Dr
Olathe
56
151st St
152nd St
New Century Pkwy
North Loop Rd
159th St
Gardner East Rd
Gardner Pl

Use SQL Spatial

- SIRENS

```
SELECT TOP 100 PERCENT OBJECTID, SHAPE FROM SIREN_PT
```

- BUFFER

```
SELECT TOP 100 PERCENT
OBJECTID,
SHAPE.STBuffer(RADIUS_FT) [SHAPE]
FROM SIREN_PT
```

- UNION

```
SELECT TOP 100 PERCENT
1 [OBJECTID],
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FROM SIREN_PT
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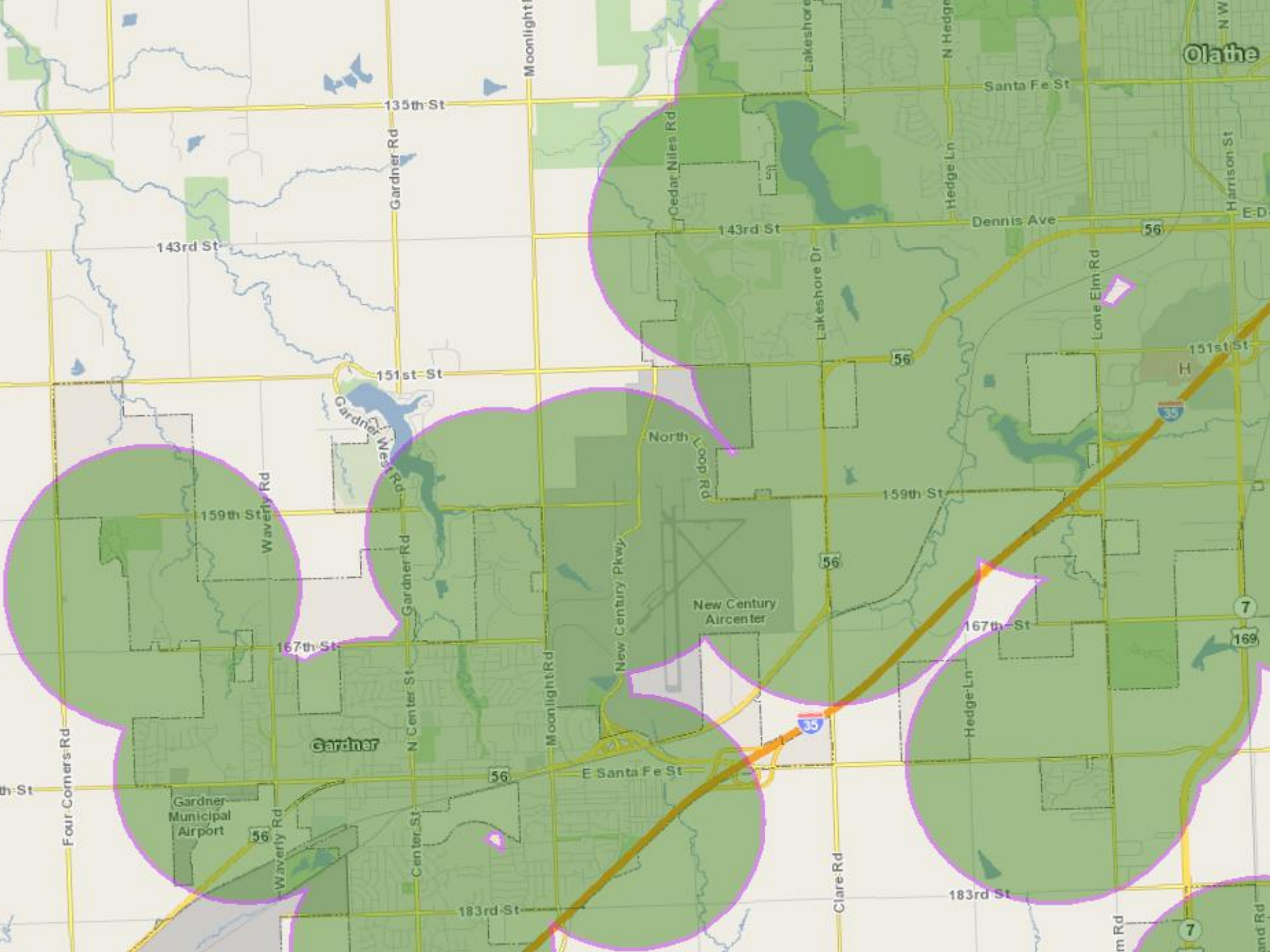
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Santa Fe St
135th St
Gardner Rd
Moonlight Rd
Lakeshore Dr
N Hedge Ln
Cedar Niles Rd
Hedge Ln
Harrison St
143rd St
Dennis Ave
56
Lone Elm Rd
151st St
H
35
North Loop Rd
159th St
Waverly Rd
Gardner West Rd
New Century Pkwy
New Century Aircenter
167th St
7
169
Gardner
N Center St
Moonlight Rd
E Santa Fe St
Four Corners Rd
Gardner Municipal Airport
Waverly Rd
Center St
Clare Rd
183rd St

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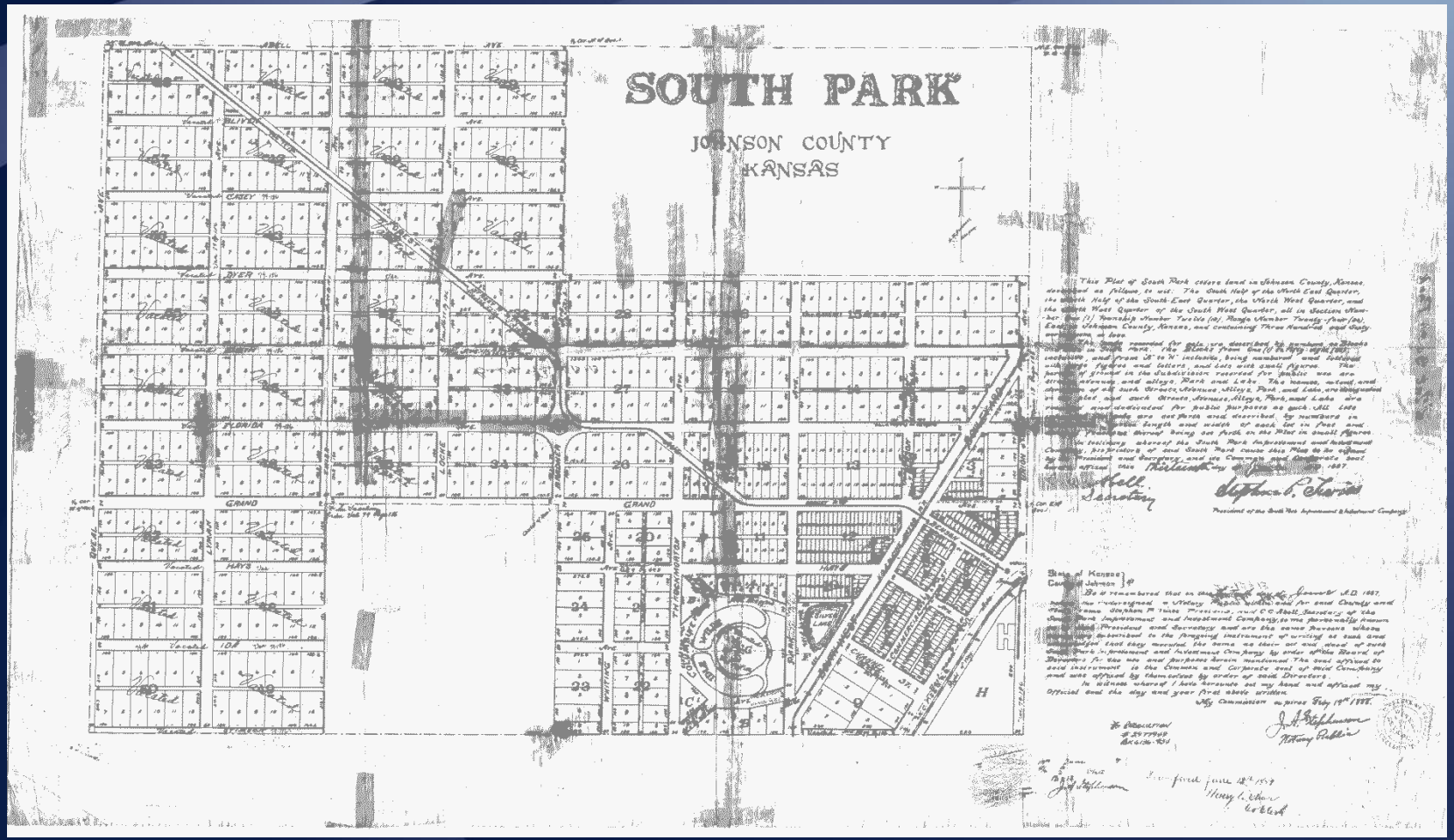
Parcel Mapping Techniques

- Legal descriptions
  - Metes and Bounds, Aliquot Parts (PLSS), lot/block system (subdivision) and strip description
- Older Plats
  - Sometimes they have a few Metes and Bounds calls and maybe even a reference to PLSS
  - Most of the time they call boundary dimensions and Right-of-Way widths
- Newer Plats
  - Mostly metes and bounds calls and good reference to PLSS
- Fractional Sections
  - Protraction of lines and corners

Older Plats



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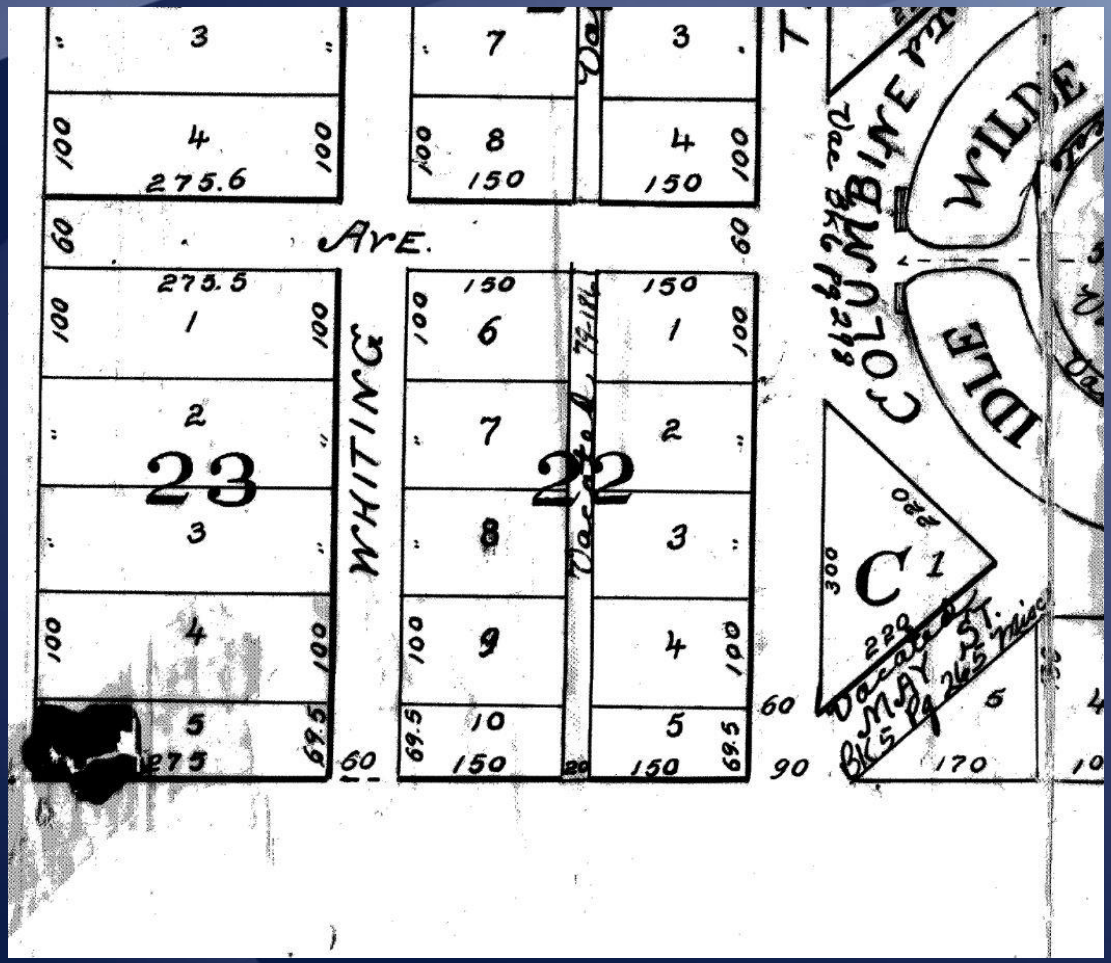
Older Plats



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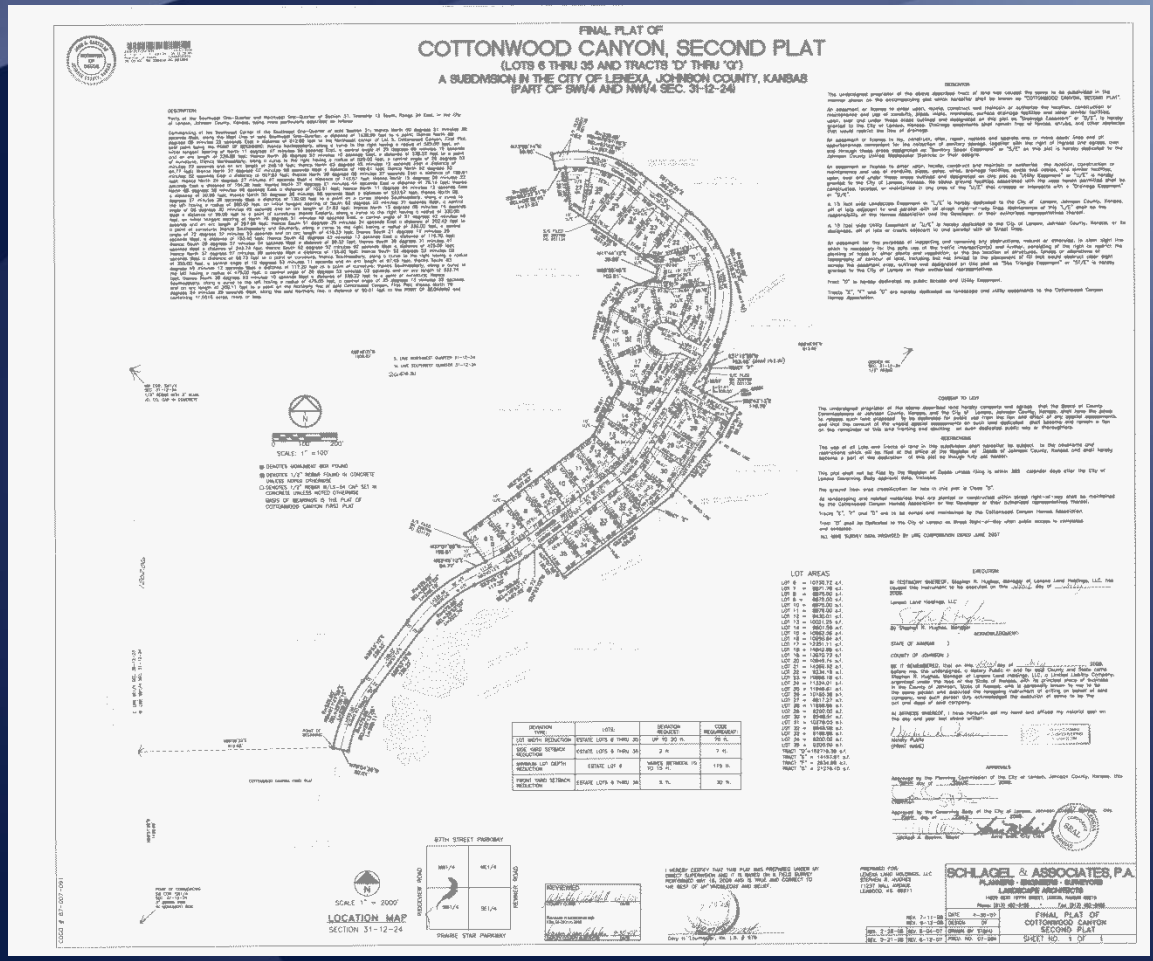
Newer Plats



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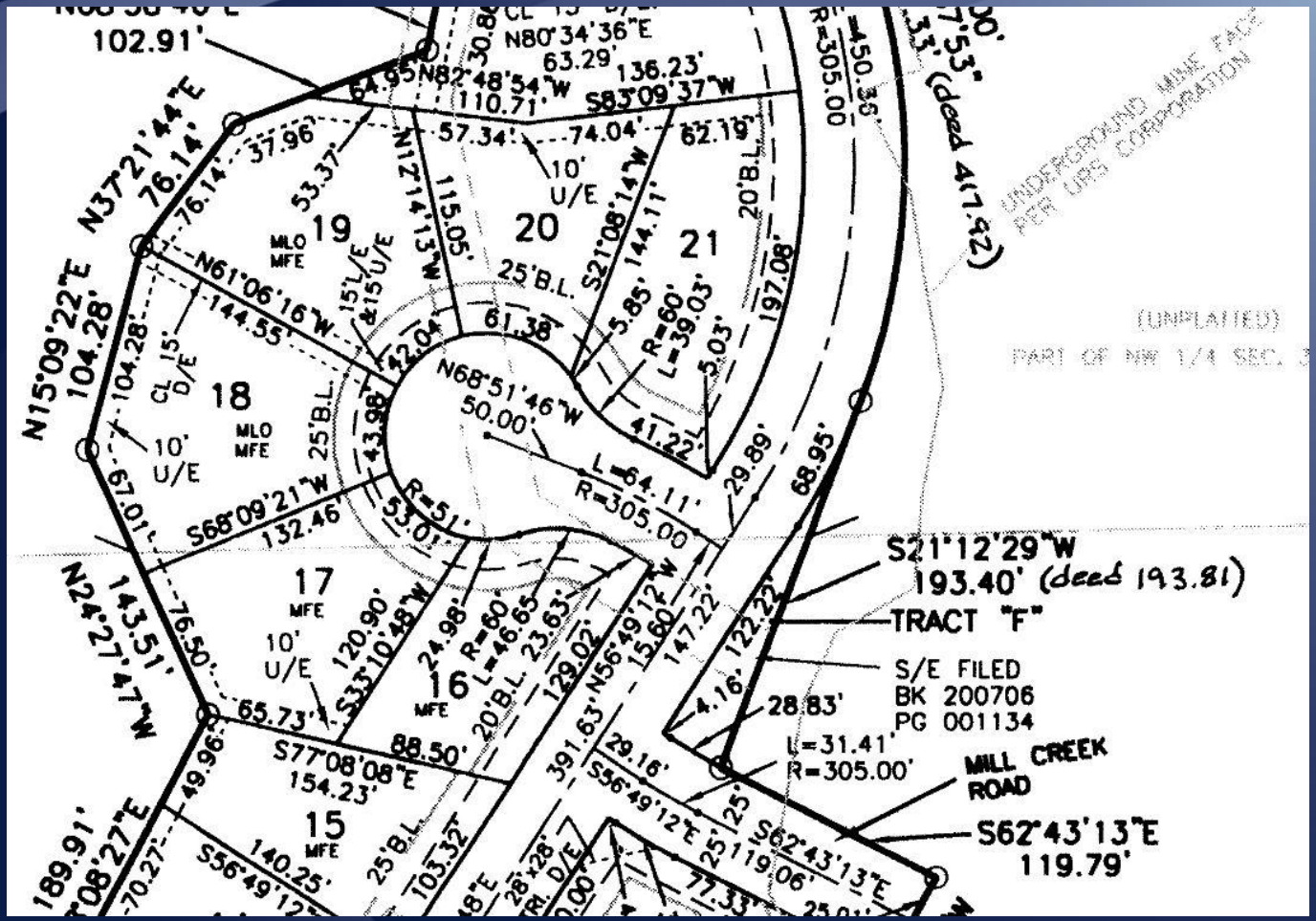
Newer Plats



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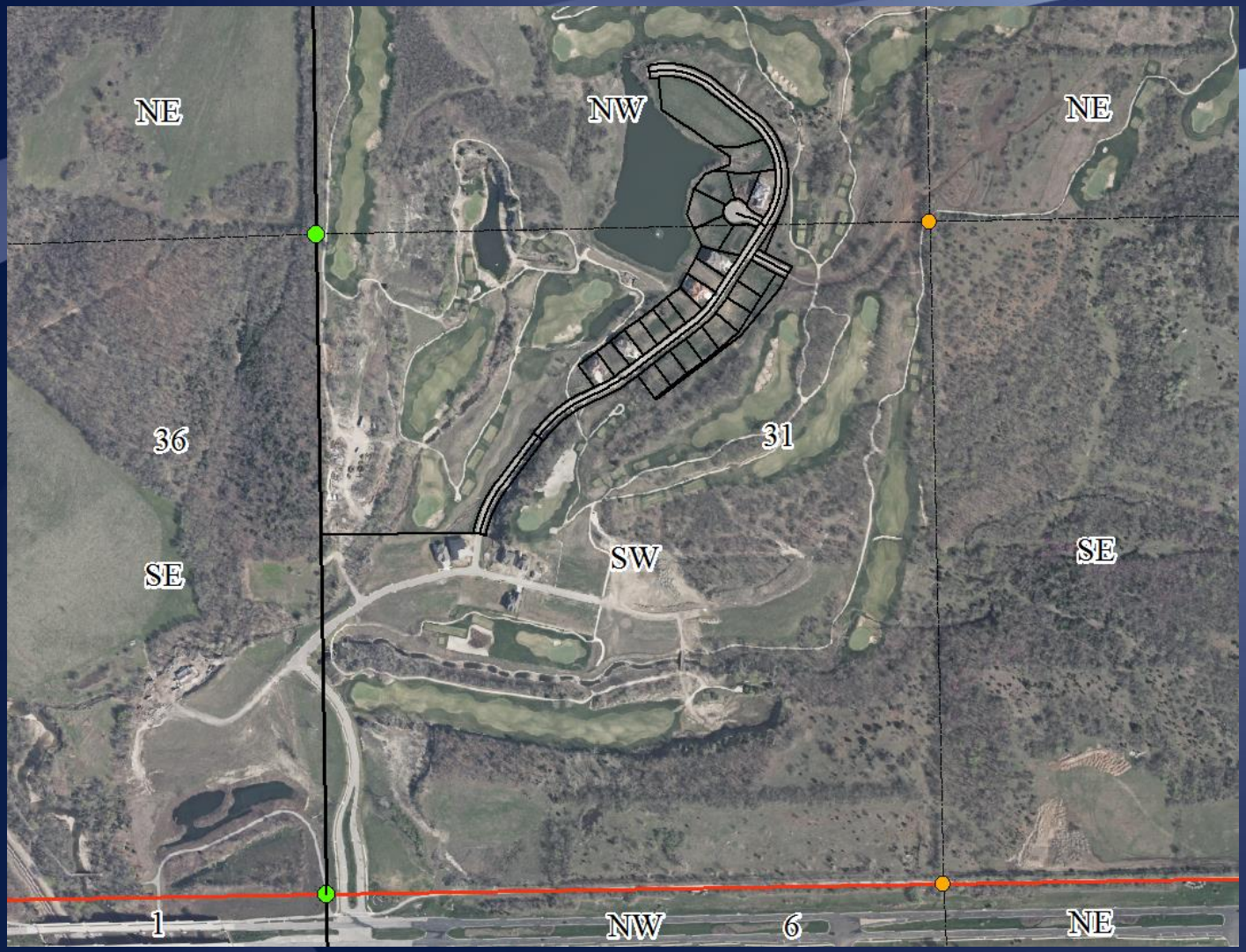

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Fractional Sections

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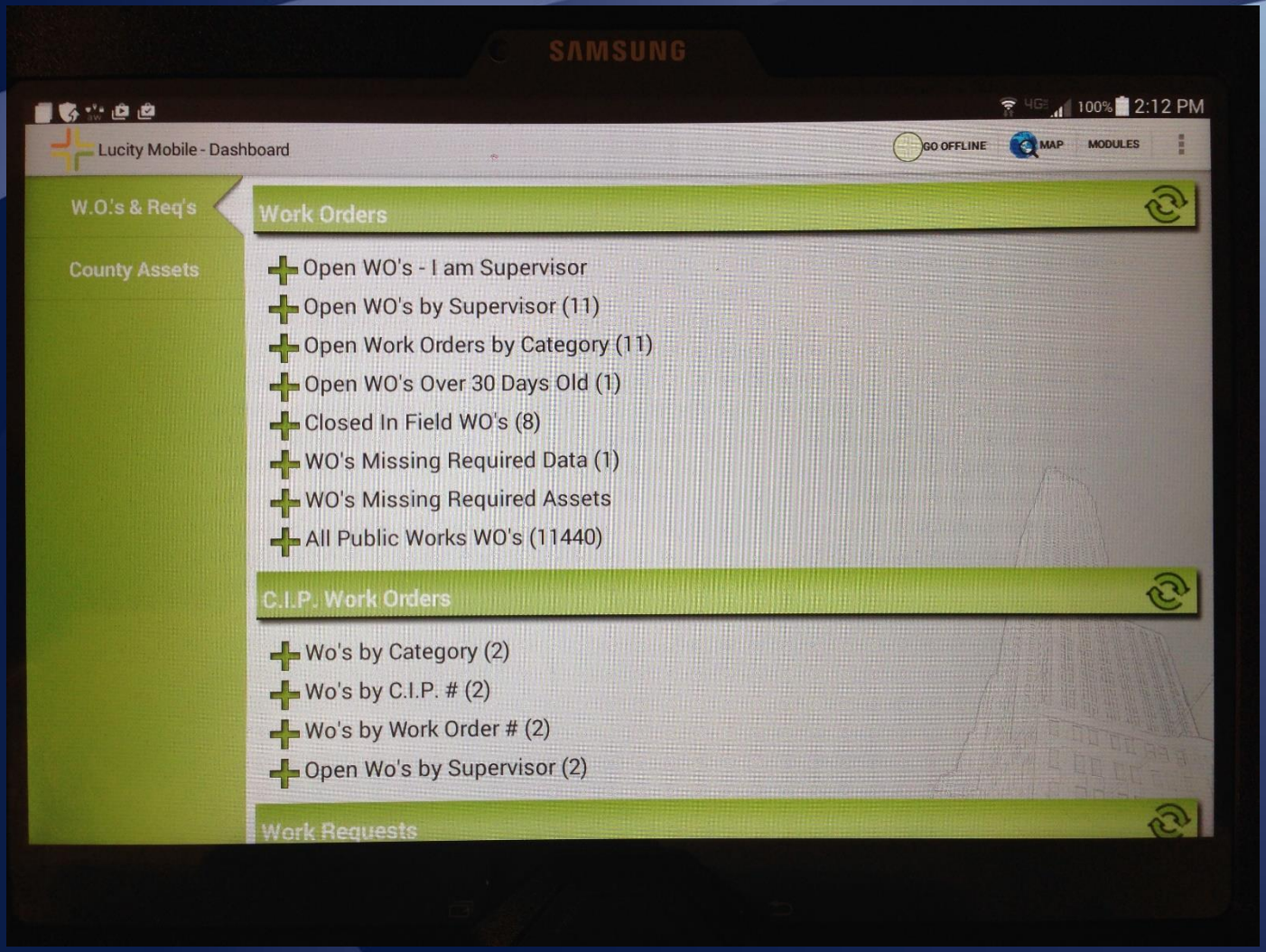
Lucity Project

- Software used by JCW and PWK
- Merged/Integrated in September
- Cost savings and shared work development
- Expand how we use Lucity
- Dashboard and Web Map
- Mobile

Lucity Mobile

- Work crews can now go Mobile
- Samsung Tab4 Android Tablets
- 9 for Road Crew Foreman
- Mobile Dashboard with a Map
- Will need to upgrade to 2014r2 for offline maps
- Can edit with Collector while connected with tablets

Mobile Dashboard



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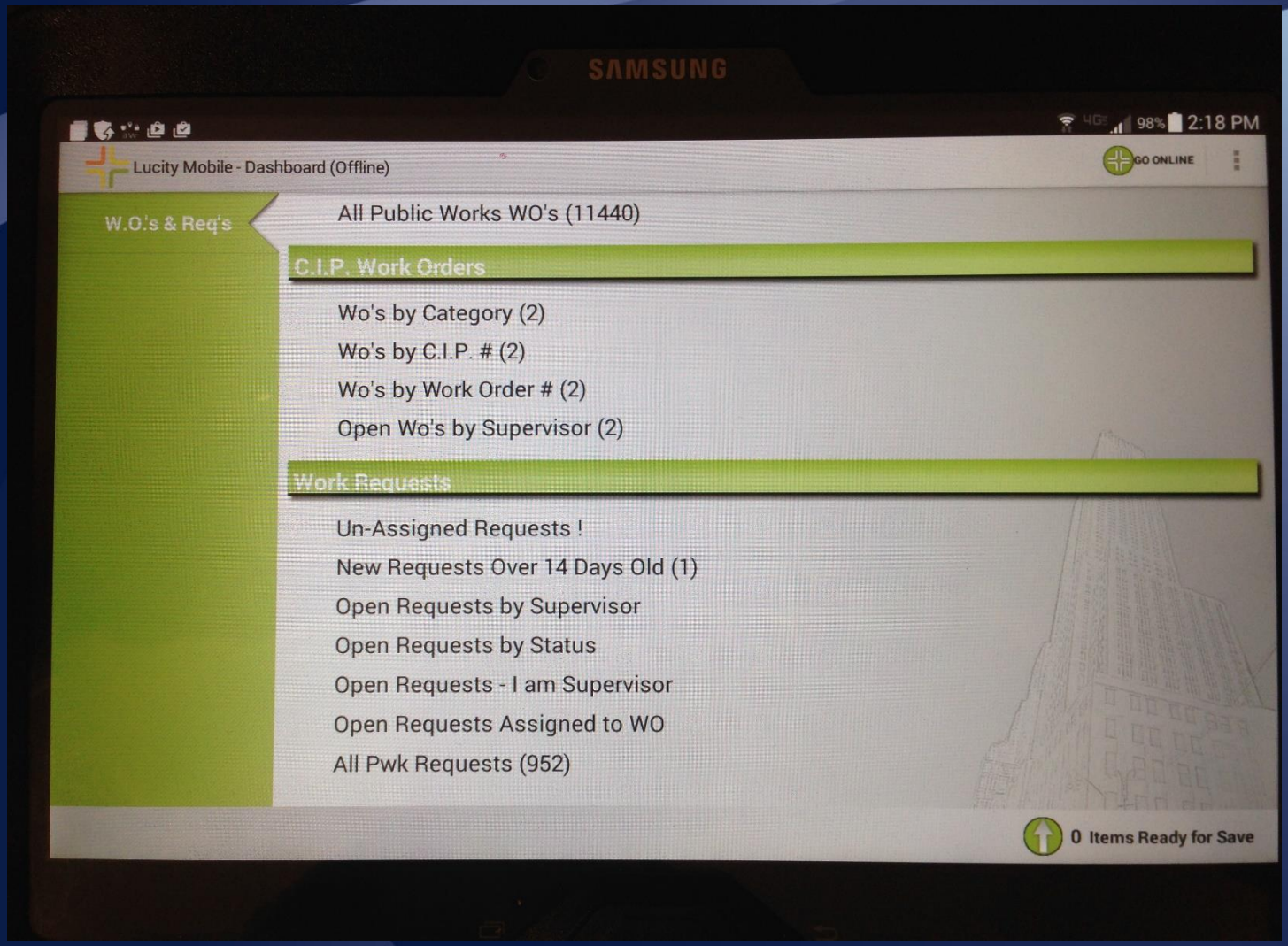
Mobile Offline



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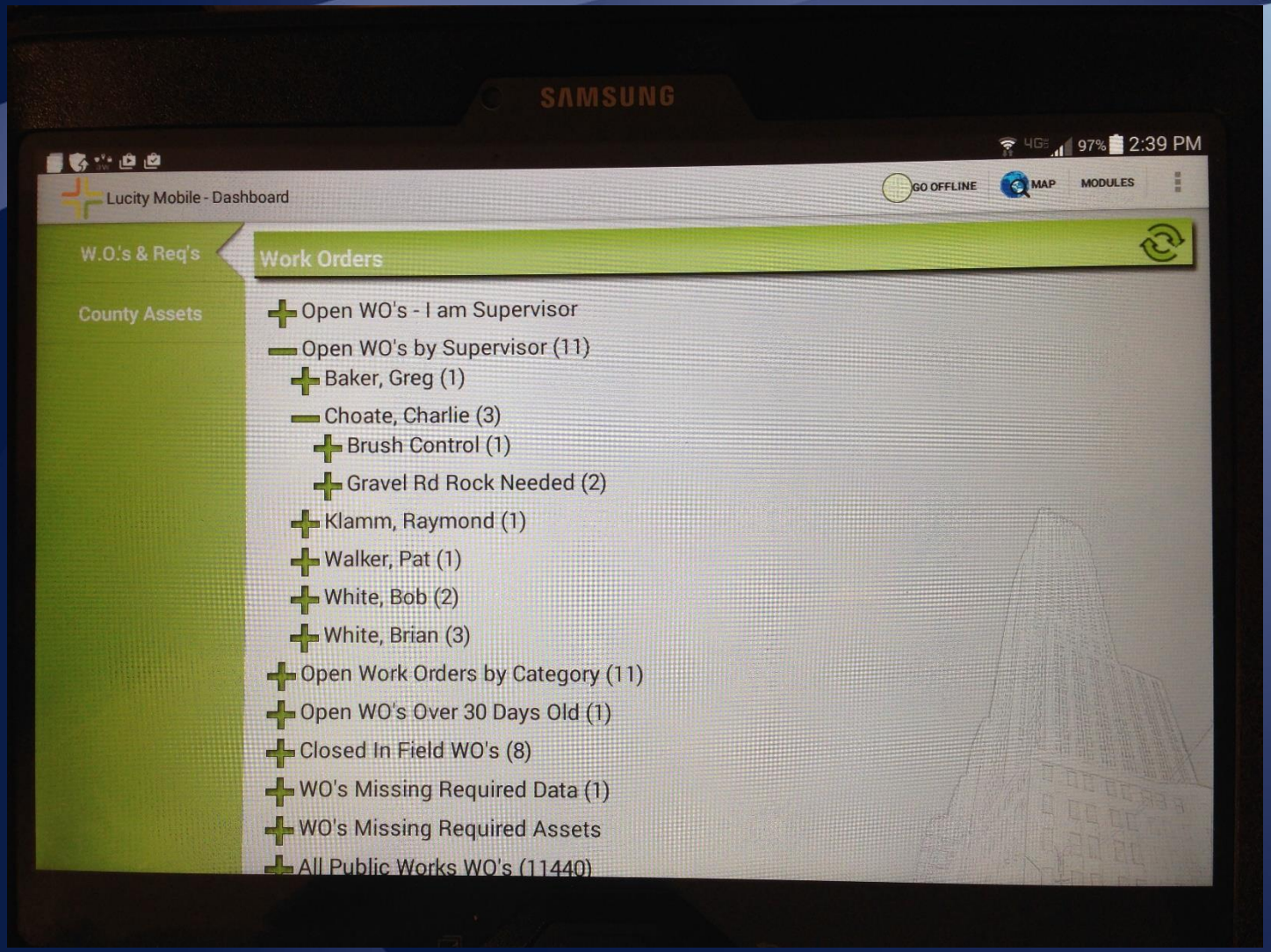
Work Orders



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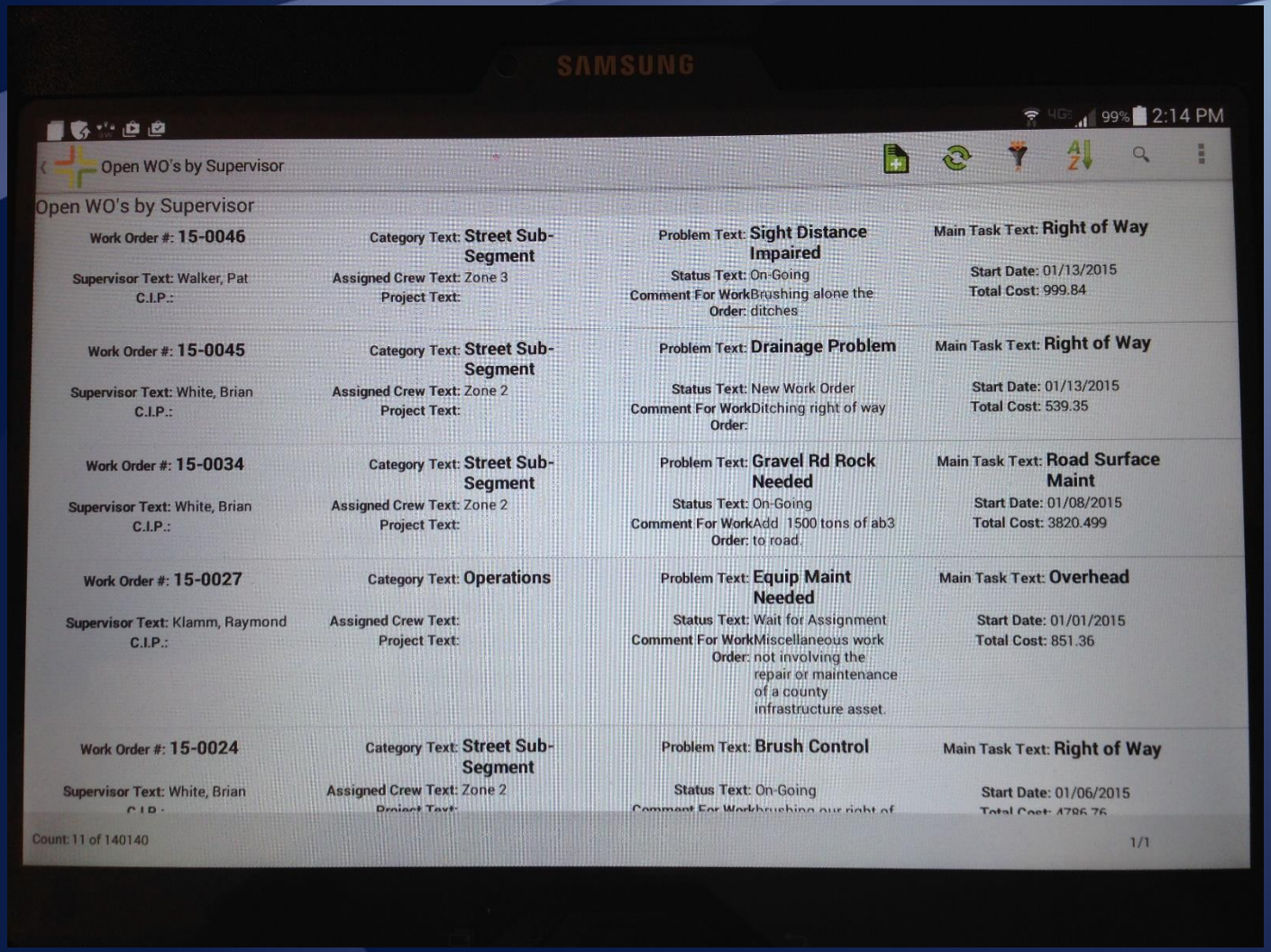
See all Work Orders



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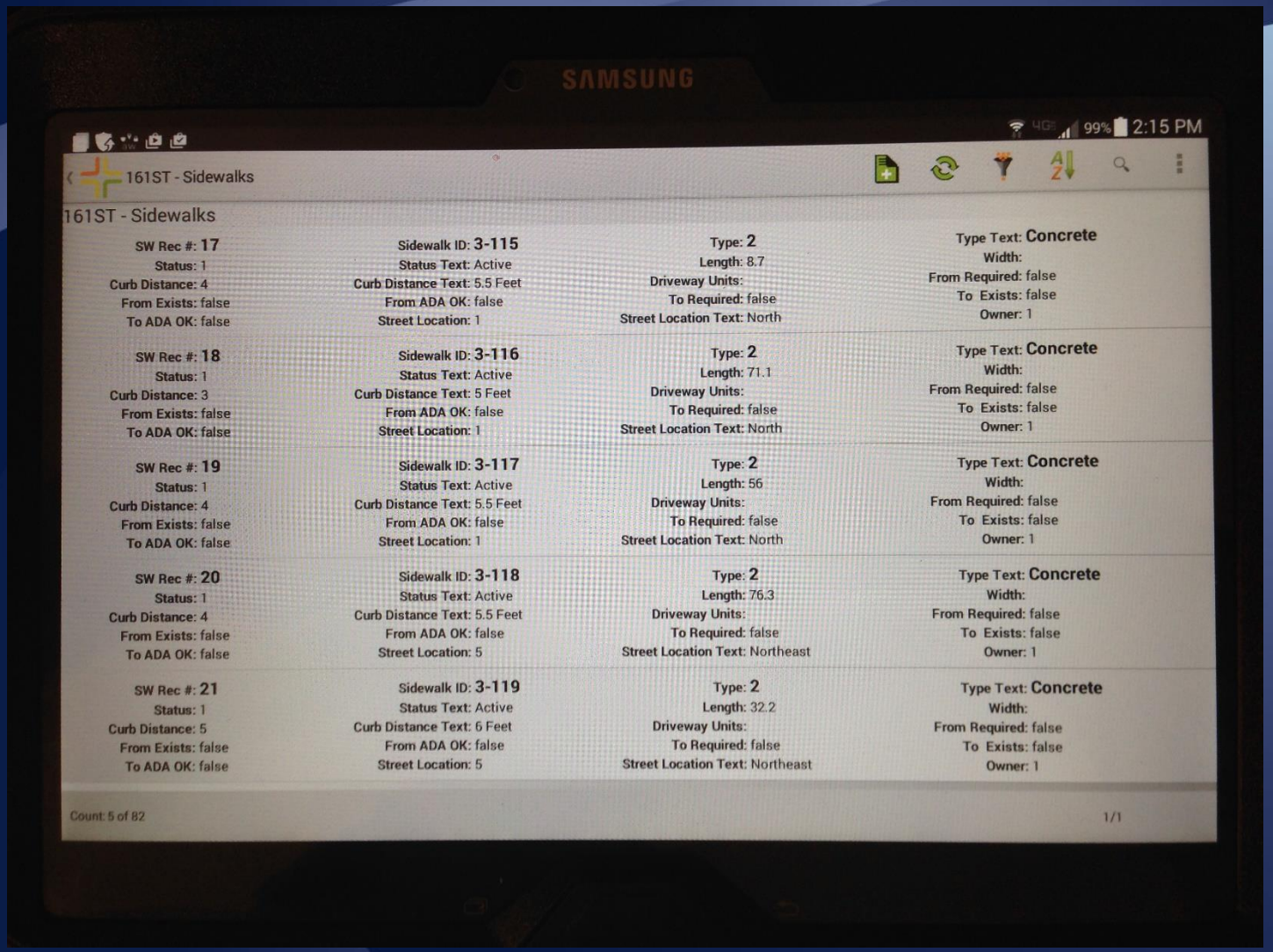
Assets



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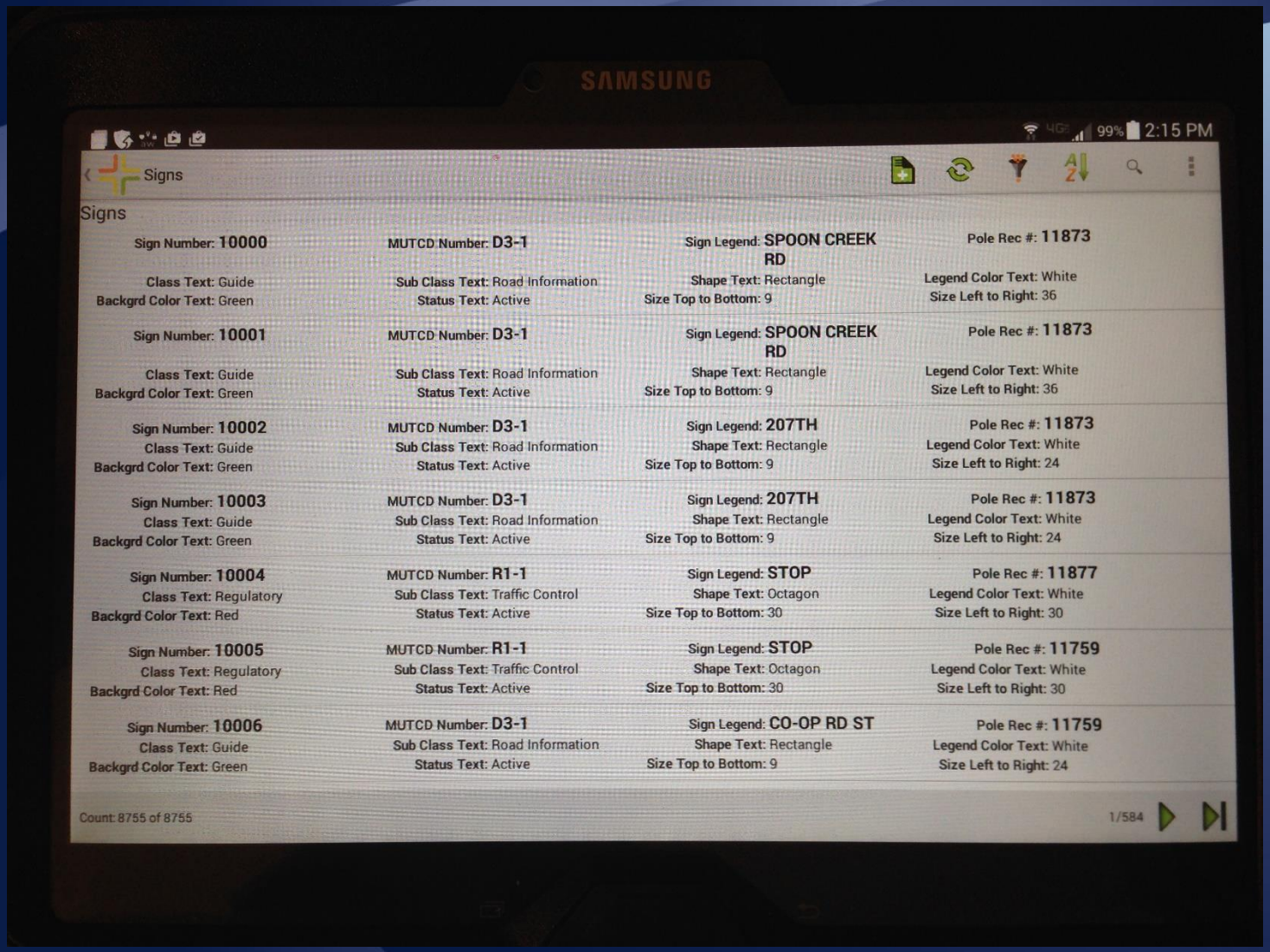

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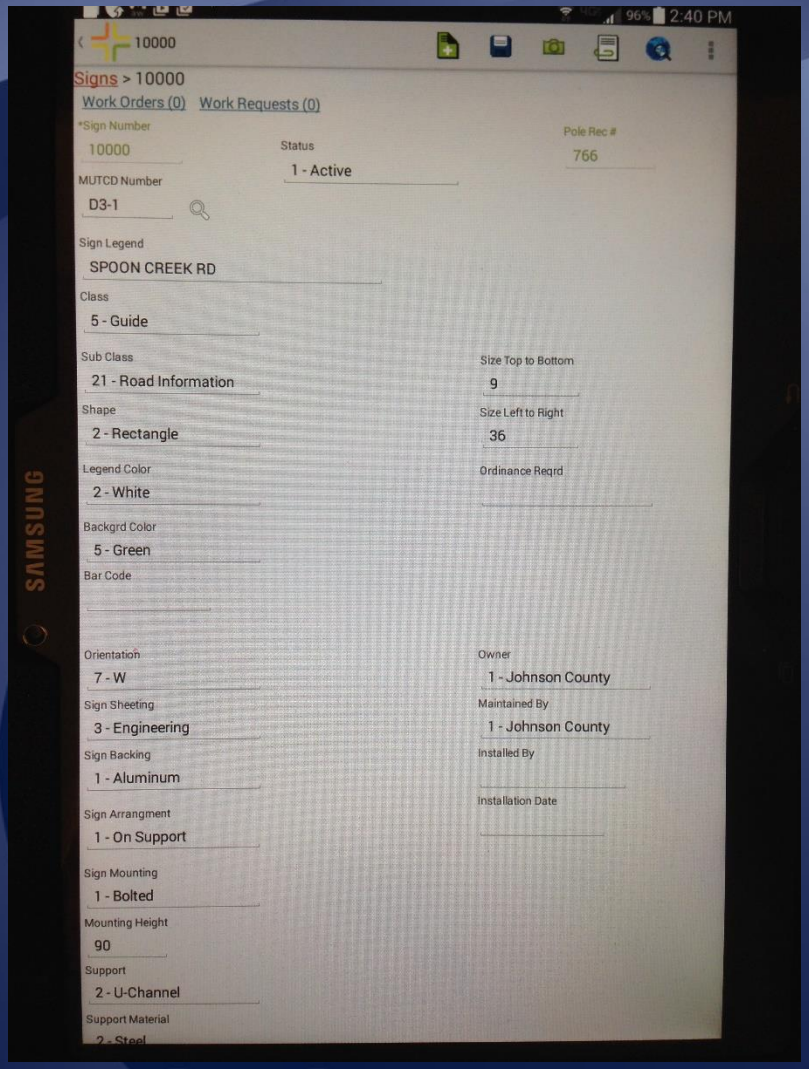
Asset Details



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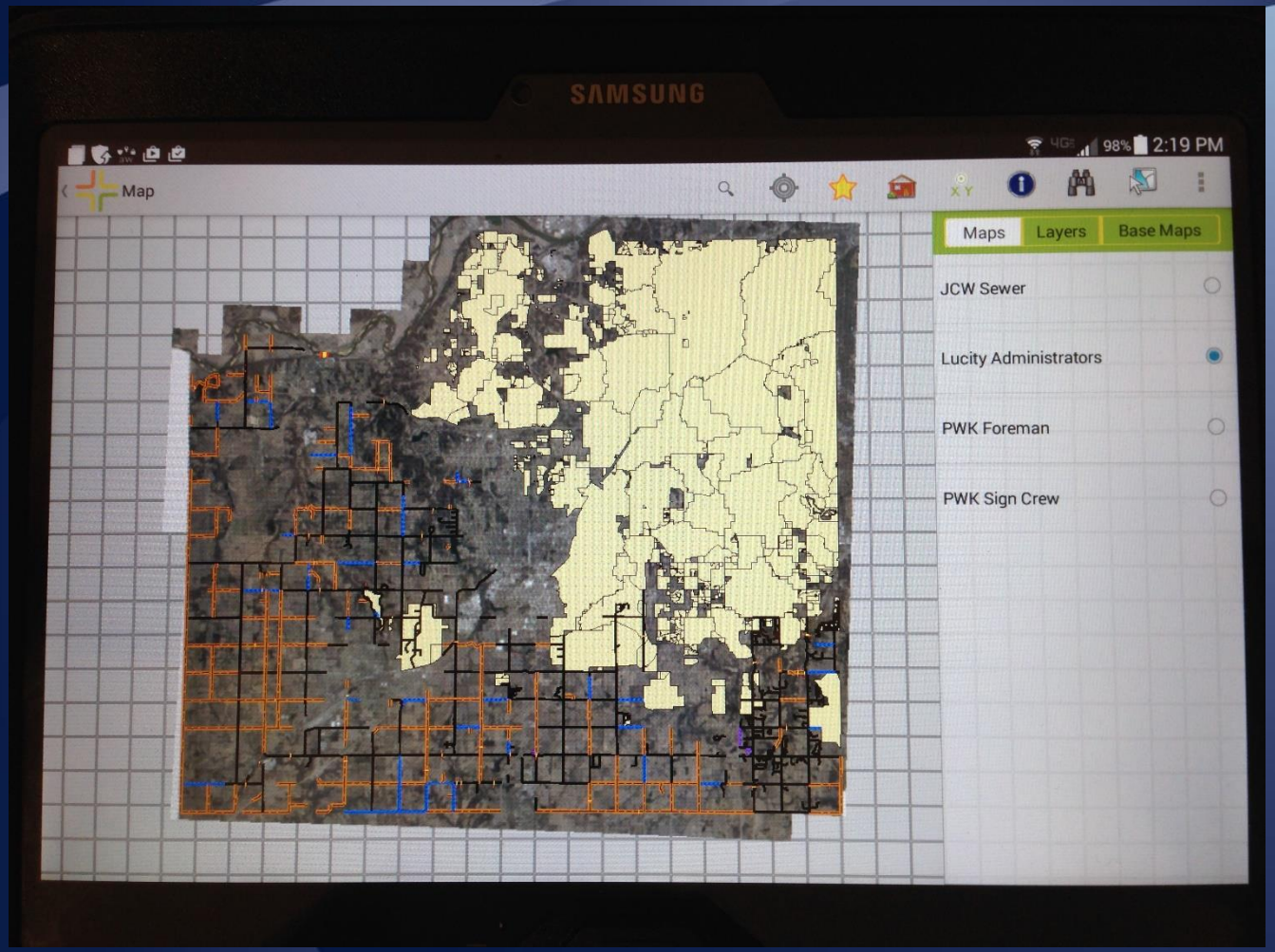
Mobile Map



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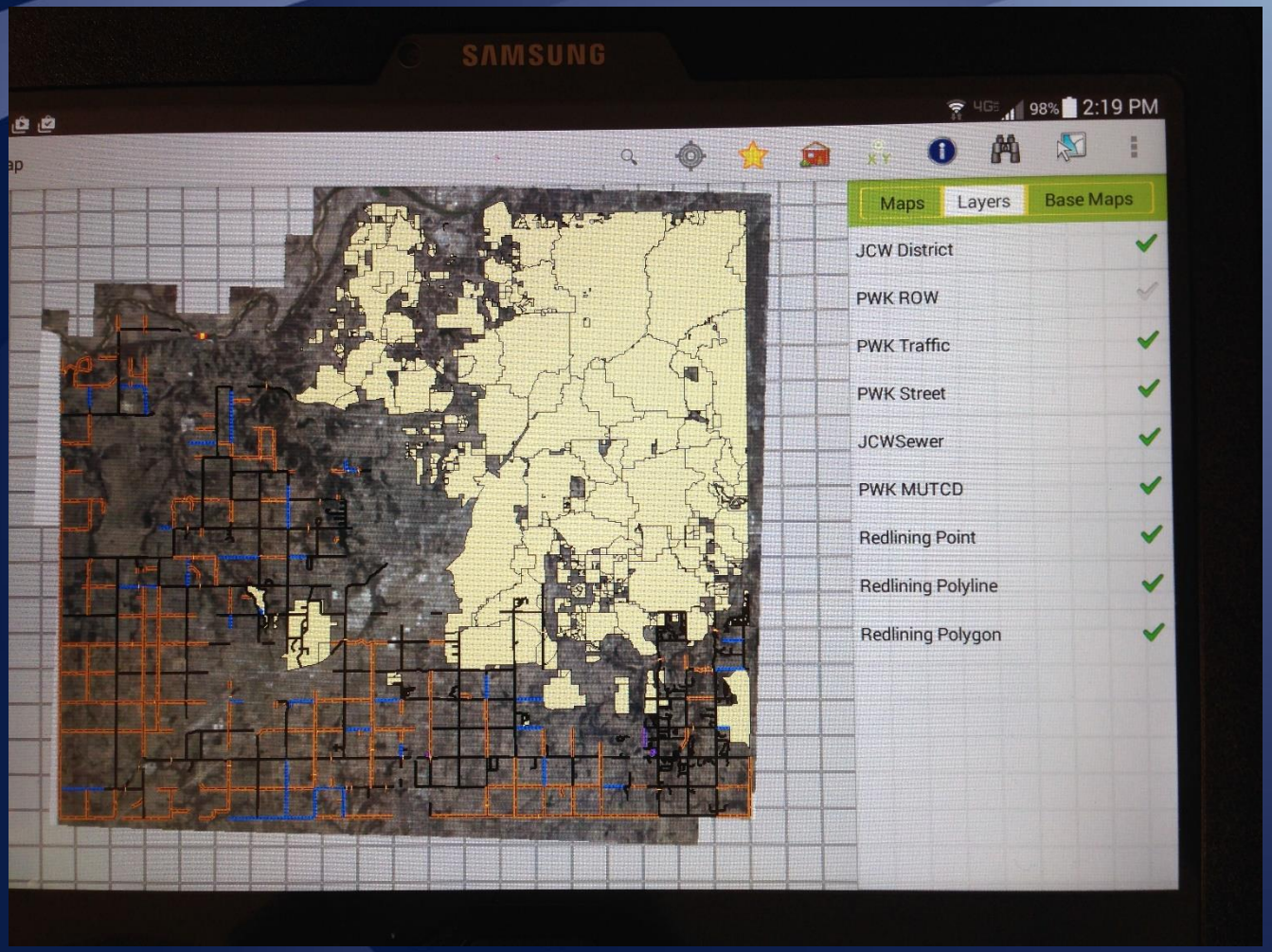
Layer Options



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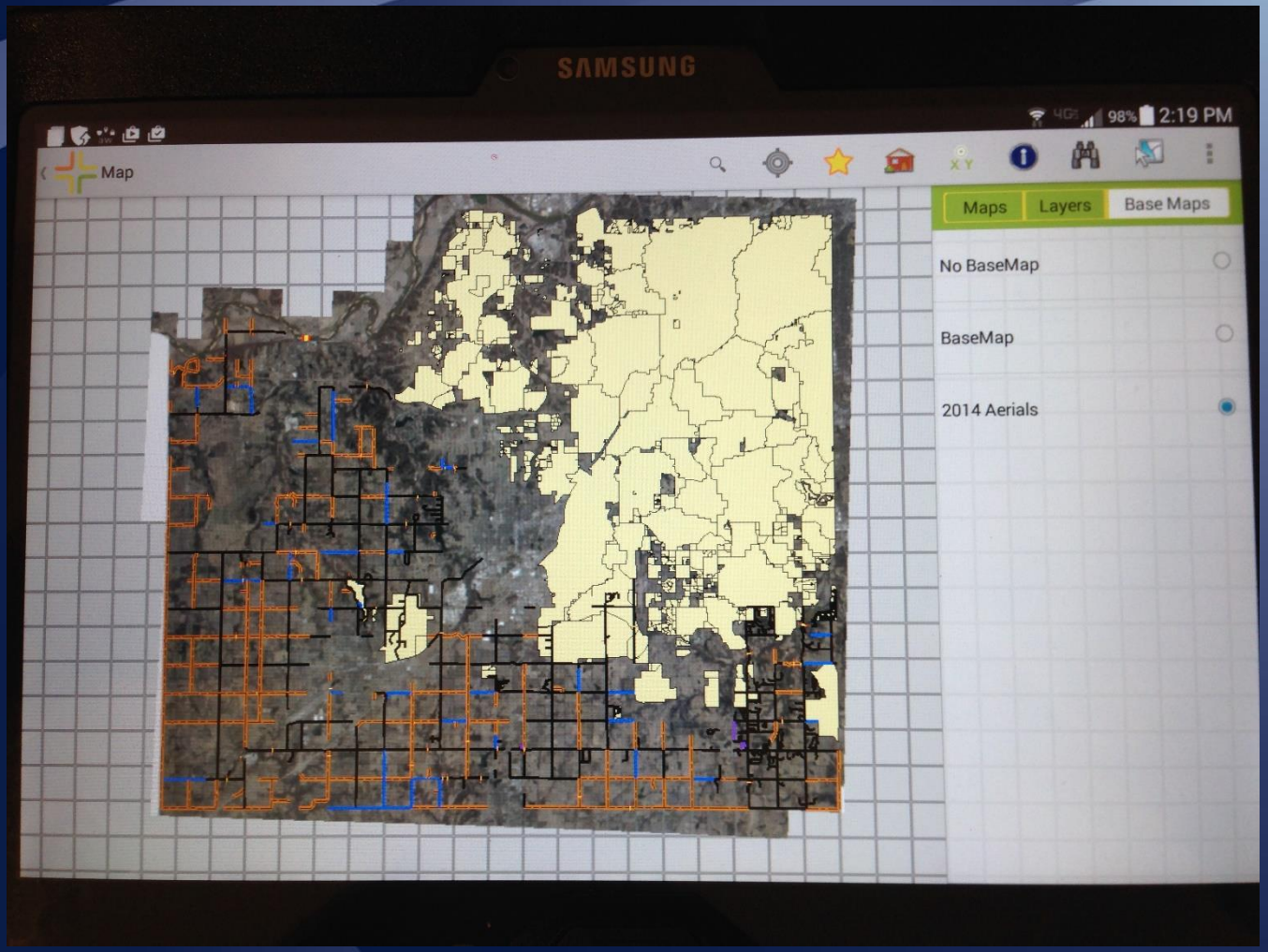
Base Maps



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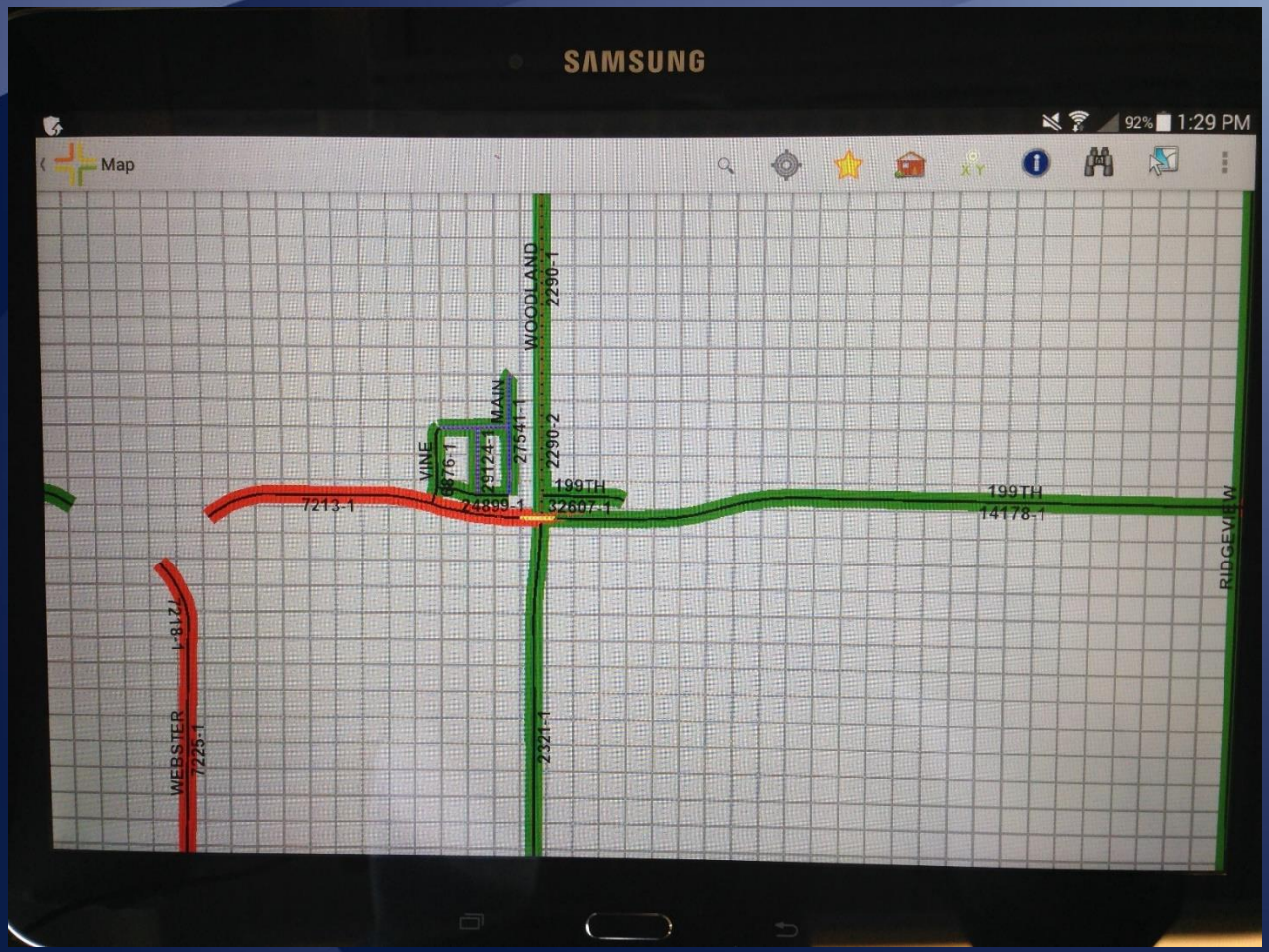
Maintenance



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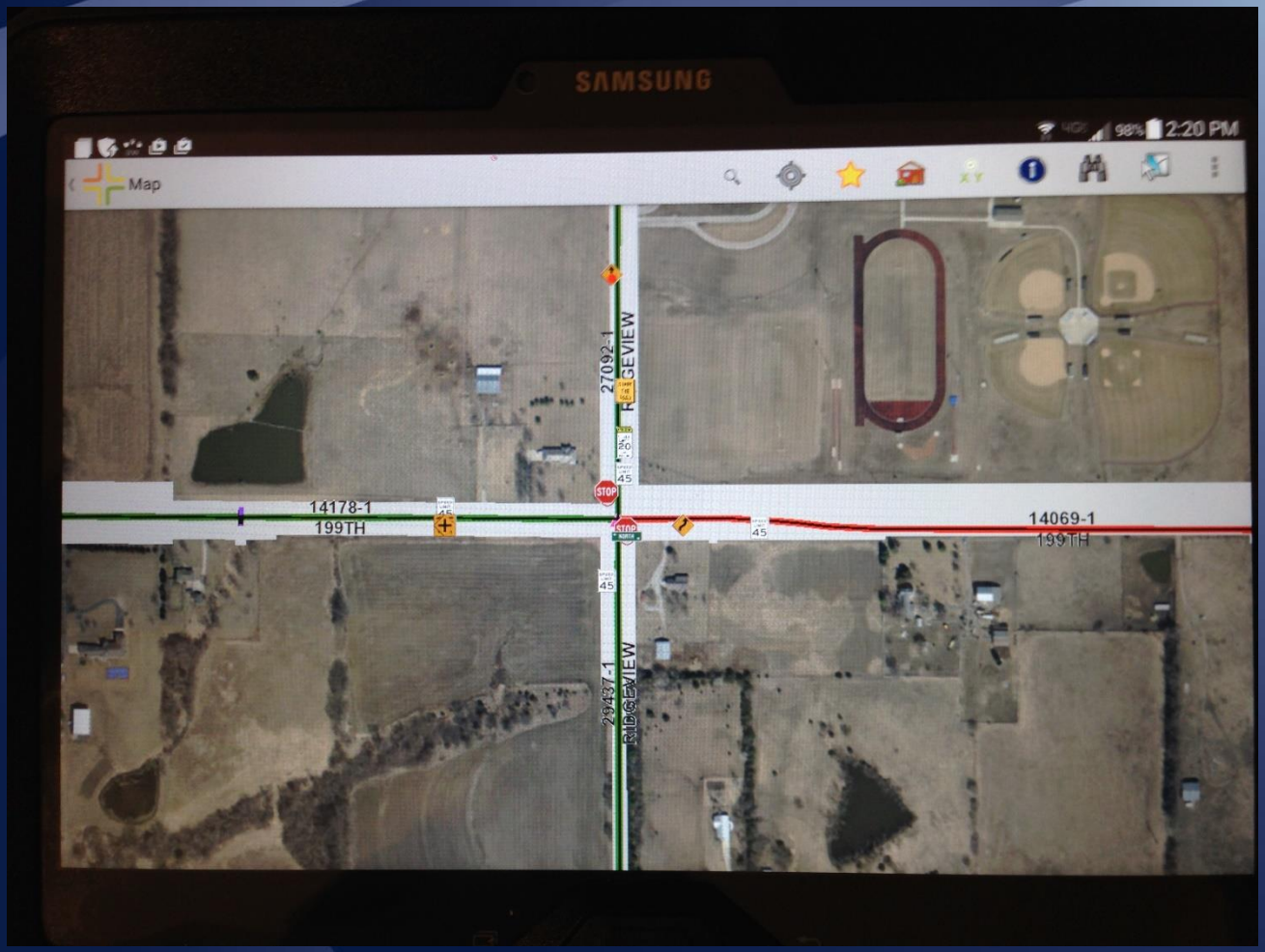
ROW



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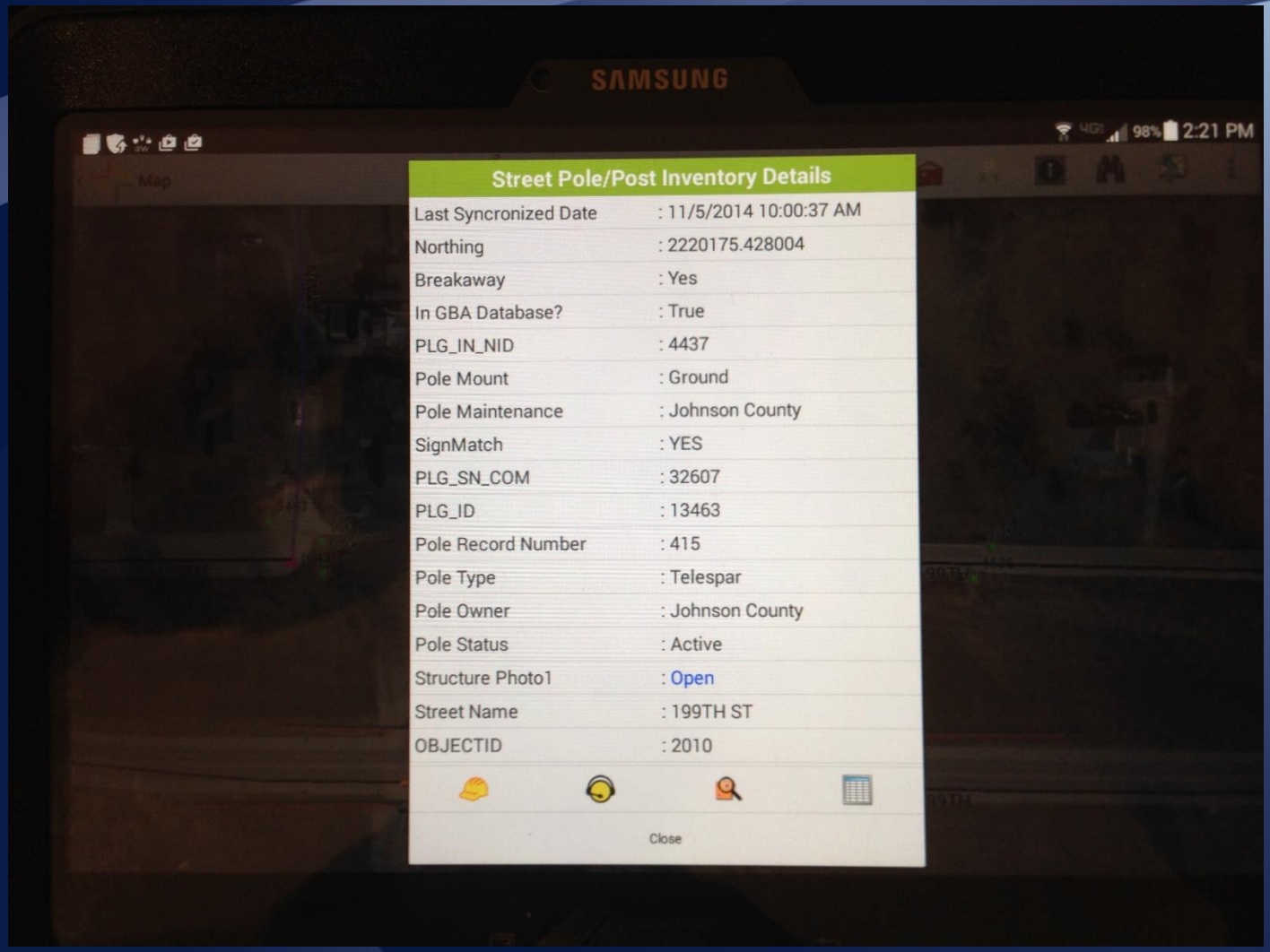
Attribute Data



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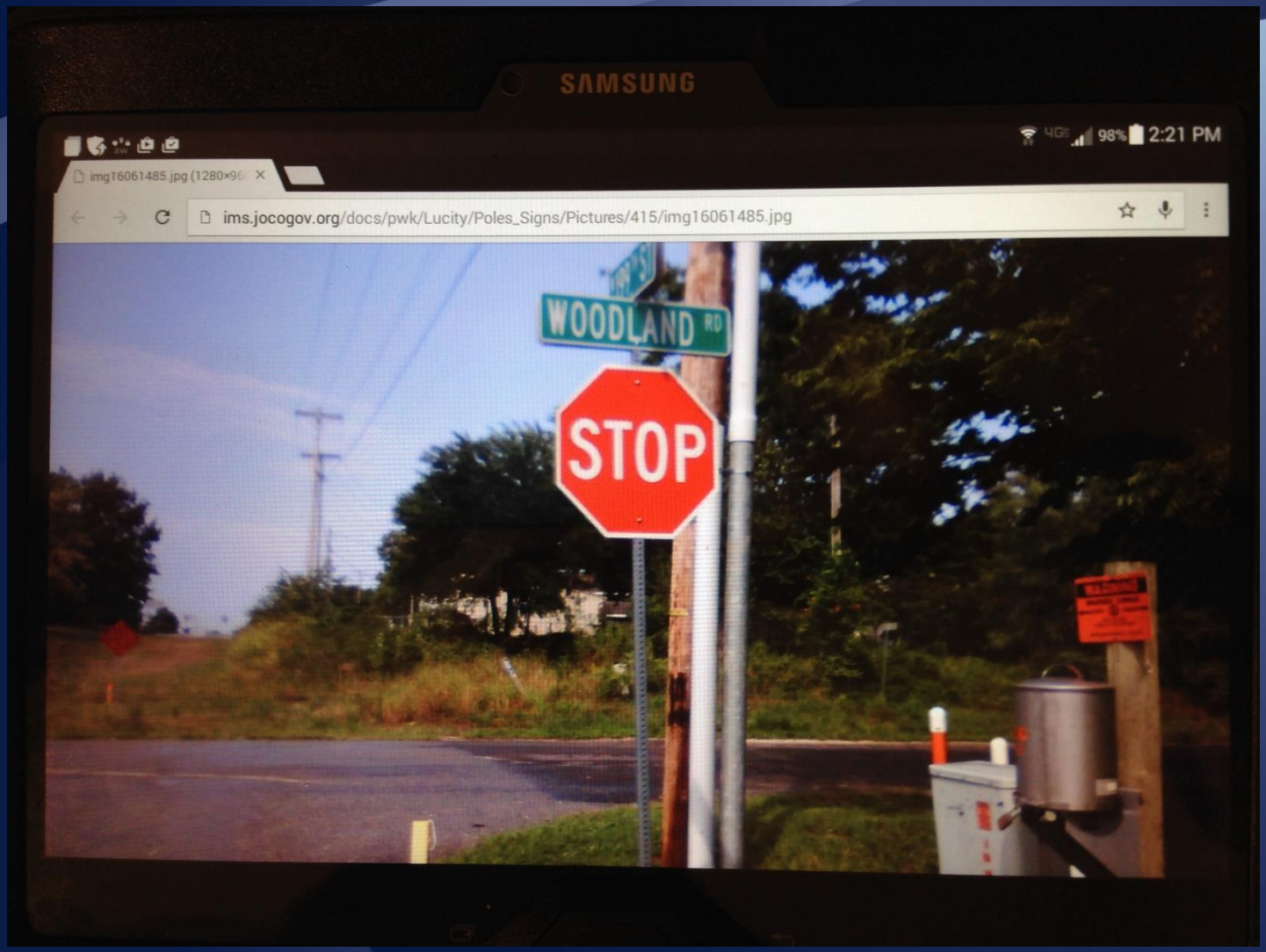
View Photos



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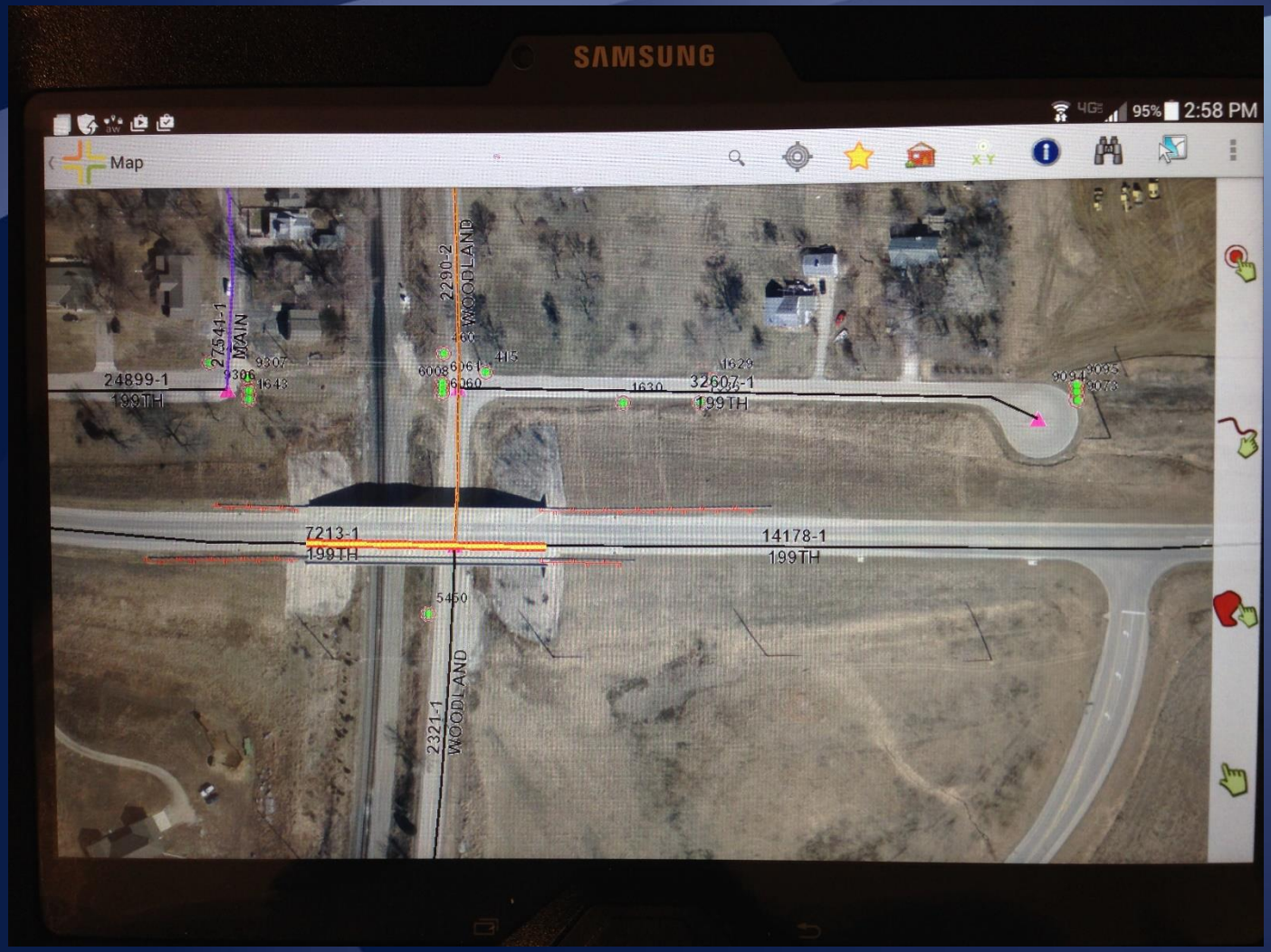
Redlining



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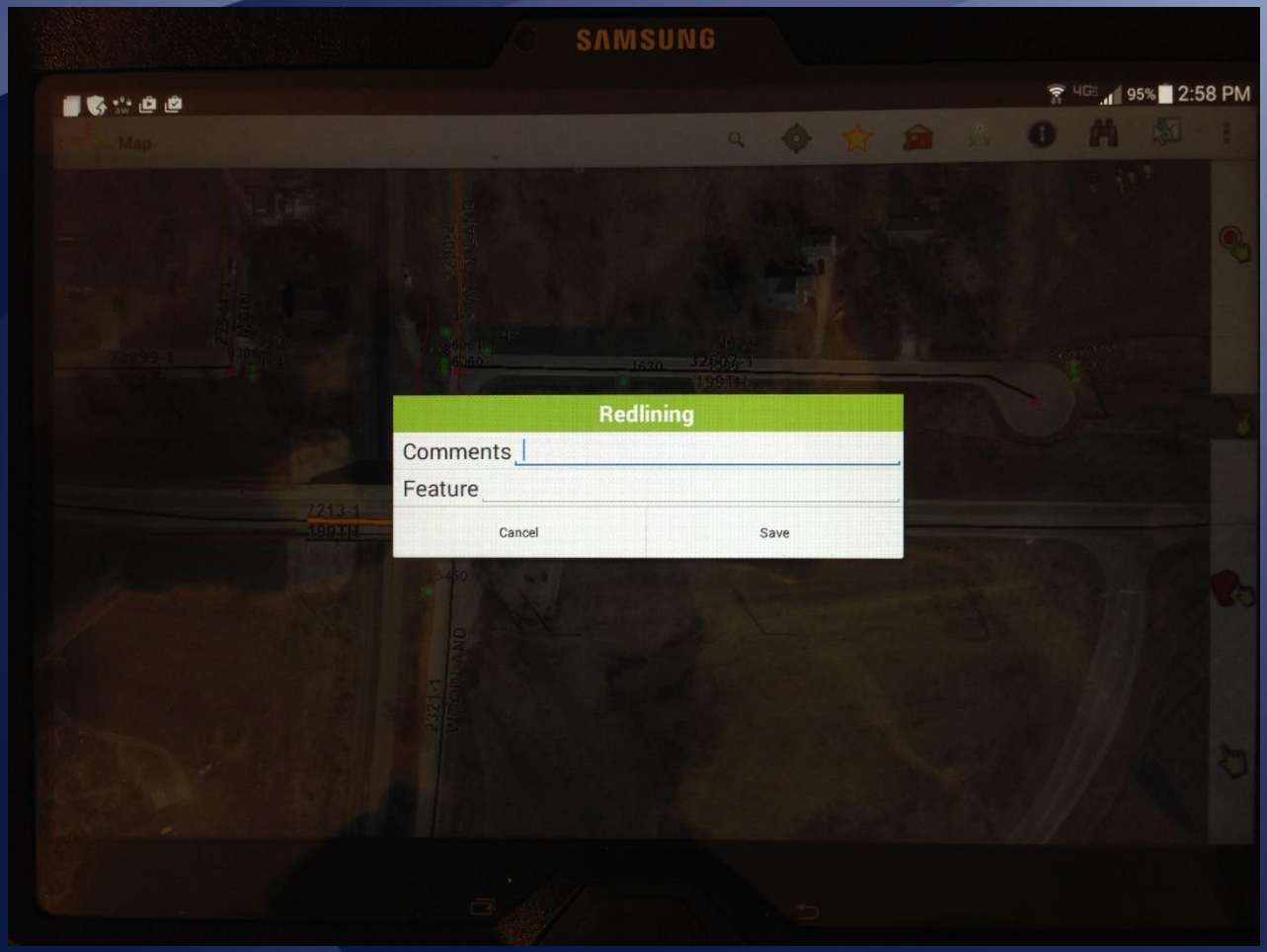
Redlining Options



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United States National Grid

USNG

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How Did It Happen

1. Larry Moore's USNG.js
2. Convert the JavaScript to SQL
   - Failure – SQL math does not match JavaScript math
     - 6386515.923737298,0.643938650896694 2
     - 6386515.92169432 ,0.643938393293852
3. Convert JavaScript to VB.NET CLR function
   - Voila, works beautifully
   - SELECT addrep.dbo.fnUSNG(Latitude,Longitude)
4. Add write ability to ESRI AddIn
   - Dim convertPnt As ESRI.ArcGIS.Geometry.IConversionMGRS = TryCast(pPoint, ESRI.ArcGIS.Geometry.IConversionMGRS)
   - sUSNG = convertPnt.CreateMGRS(5, True, ESRI.ArcGIS.Geometry.esriMGRSModeEnum.esriMGRSMode_USNG)

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Web Editing

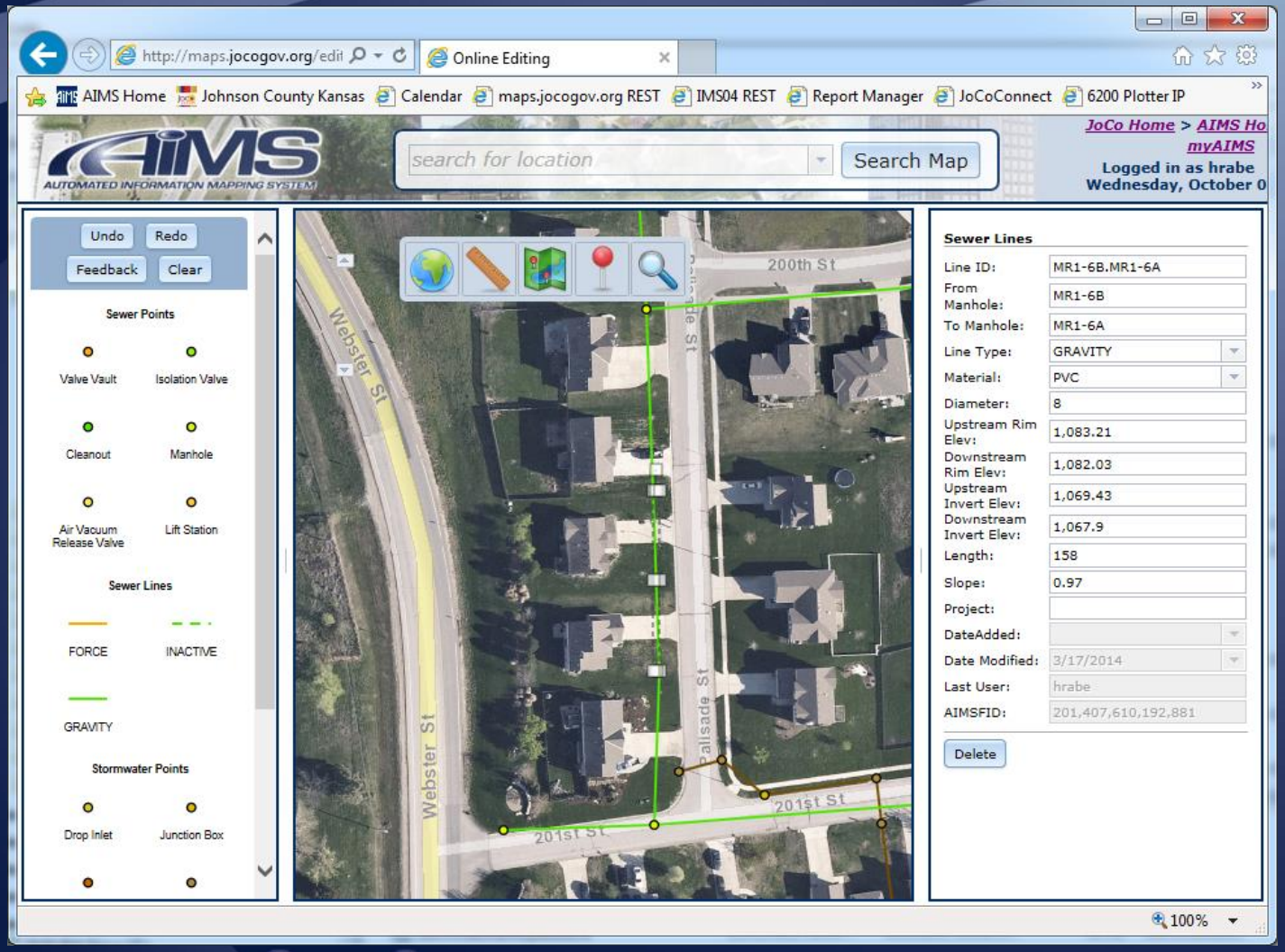
- Utilities & Signs
- Mowing
- Home Owners Assoc attributes
- Livestock
- School District asset management
- Permit and public art updates
- Parks

Highlight 1 - Utility Editing

- Project - Provide web interface for Spring Hill myAIMS users to edit municipal utility data.
- Prior practice
  - City engineer sends dwg to AIMS for new plats.
  - Typically there were no attributes/minimal anno.
  - Occasionally a pdf with attributes was included.
  - Errors/Changes were communicated via email.
  - AIMS add/edit data as time allowed.

Utility Editing

- Utility Managers control data.
- Domains to control data entry.
- Snapping enabled for connectivity.
- Centralized data sources (SDE).
- AIMS listeners for non-edit fields (Date Added, Modified, etc.)



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Highlight 2 - Sign Editing

- Project - Provide web interface for Asst. Public Works Director to capture sign inventory.
  - Needed for Federal retroreflectivity requirements.
- Prior practice
  - Excel document with little data.
  - Non standard field names.

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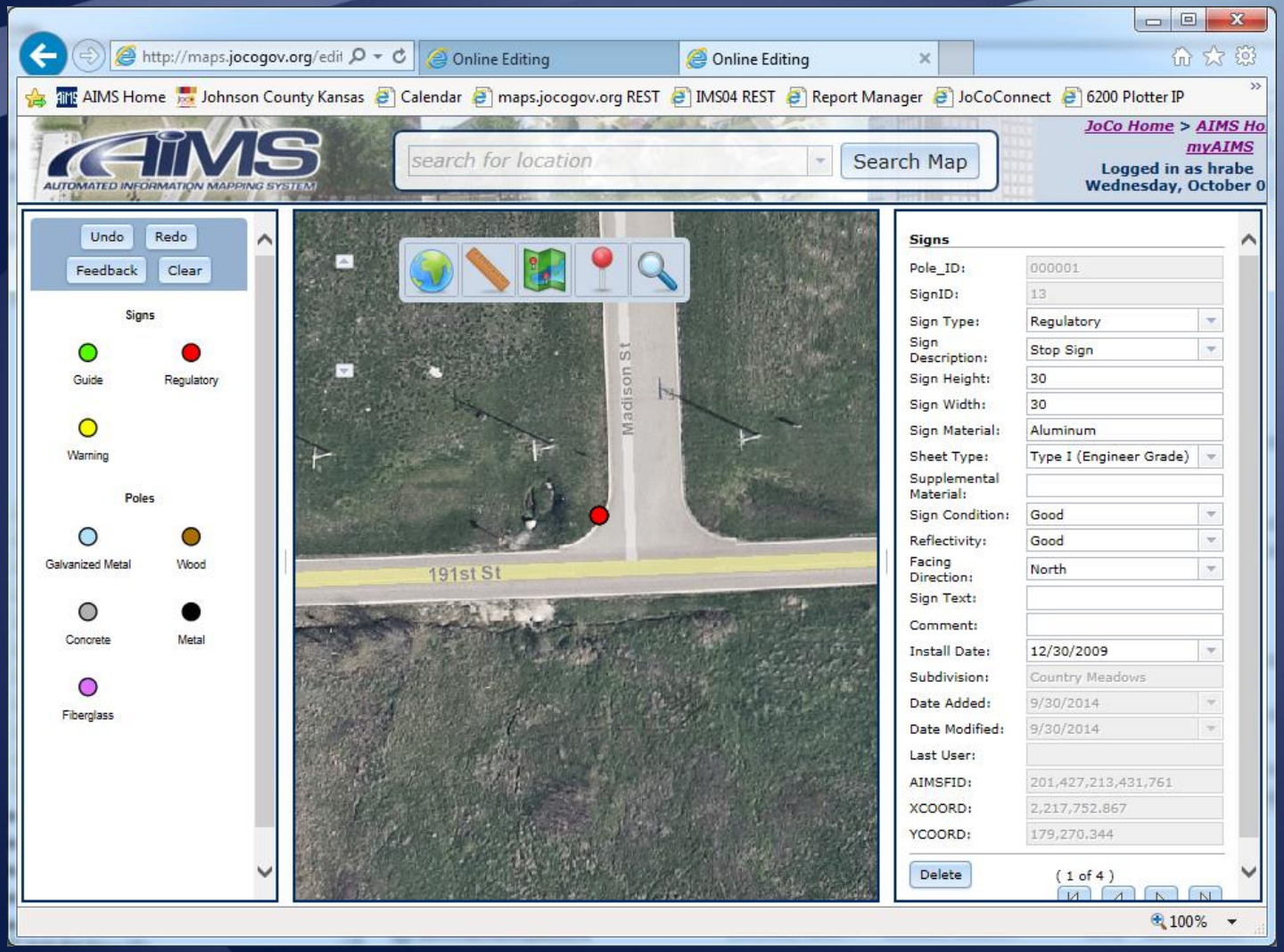
Sign Editing

- Pole added 1st with pole ID manually entered.
- Sign(s) added to pole with auto-snapping.
- Pole ID auto calculates on sign (using SQL trigger).
- Fields adhere closely to LGIM.
- 'Locate Me' for field editing.



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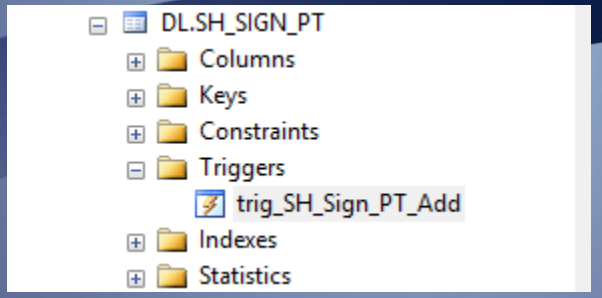
Trigger




```
CREATE TRIGGER [DL].[trig_SH_Sign_PT_Add]
   ON  [DL].[SH_SIGN_PT]
   AFTER INSERT, UPDATE
AS
BEGIN
      UPDATE a
      SET a.Pole_ID = q.Pole_ID, a.Subdivision = q.Subdivision
        from  jocodev.dl.SH_POLE_PT q, jocodev.dl.SH_Sign_PT a,
           inserted
           where inserted.Shape.STIntersects(q.SHAPE) = 1
           AND a.OBJECTID = inserted.OBJECTID
END
```

Trigger

Other uses

- Upstream/Downstream nodes on utility lines
- Sections

Gotchas

- SQL Server “Geometry” Spatial type
- Versioned data (SDE_table_registry)

Web Editing

Benefits

- Better data – less NULL values.
- Reduced data maintenance costs, more efficient editing practices.
- AIMS already has a base web editing template, so app development time is minimal.
- Puts data maintenance in hands of those who know it best

Challenges

- Data prep/development
  - Always takes longer than you think!
- Training
  - What's easy for us is not necessarily so for others.

Q&A

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AIMS
AUTOMATED INFORMATION MAPPING SYSTEM