



# Local Agency Data Collection (LADC) Program Overview

Donny McElveen & Emily Watts

# Mileage Request

Hello Ladies and Gentlemen,

In accordance with the new MAP-21 federal highway bill, the SCDOT is in the process of updating mileage totals for non-state maintained routes in your county. This data is also important to maintaining accurate mileage totals for the apportionment of “C” funds. Therefore, we need your assistance in helping us update your county’s centerline mileage totals for the following categories. Please exclude mileage on roads not open to the general public. The categories are as follows:

- 1) Total Non-State Maintained Paved Miles inside a City Limits
- 2) Total Non-State Maintained Paved Miles outside a City Limits
- 3) Total Non-State Maintained Unpaved Miles inside a City Limits
- 4) Total Non-State Maintained Unpaved Miles outside a City Limits

If possible, please provide this data by **September 15th**, or let us know when you will be able to provide it. If you are not the contact person for this information, please provide us with the appropriate person’s name, e-mail address and phone number. We really appreciate your help with this project.

As you can tell, we are currently only requesting summary mileage totals. However, we will need detailed route information including GIS shape files within the next 2 to 3 years. This detailed mileage and shape files are a requirement of the federal MAP-21 legislation, and will be the standard used to determine C fund apportionment. It will be several months before we are ready to begin accepting this detailed data using a new application called LADC (Local Agency Data Collection), and we will contact you again once this application is complete.

If you have questions concerning this request for non-state maintained mileage, please contact my assistant Angela Hance at 803-737-1466 or [HanceMA@scdot.org](mailto:HanceMA@scdot.org). If you have questions concerning the upcoming LADC program, please contact our GIS manager Donald McElveen at 803-737-1677 or [McElveenDE@scdot.org](mailto:McElveenDE@scdot.org).

Thank you very much for your time,

R. Todd Anderson, P.E.  
Road Data Services Engineer  
SCDOT  
803-737-1468

# Mileage Summary Example

County Name Here

	Paved	Unpaved
Total non-state maintained mileage within the county boundary	500.23	125.11
Non-state maintained mileage inside City 1	35.3	0
Non-state maintained mileage inside City 2	47.21	0
Non-state maintained mileage inside Town 1	10.55	2.1
<b>Total non-state maintained municipal mileage</b>	<b>93.06</b>	<b>2.1</b>
<b>Total non-state maintained rural mileage</b>	<b>407.17</b>	<b>123.01</b>

The yellow highlighted numbers are the 4 numbers we would like.  
Or we will accept the blue highlighted numbers along with an estimated percent which is inside any municipal boundary.

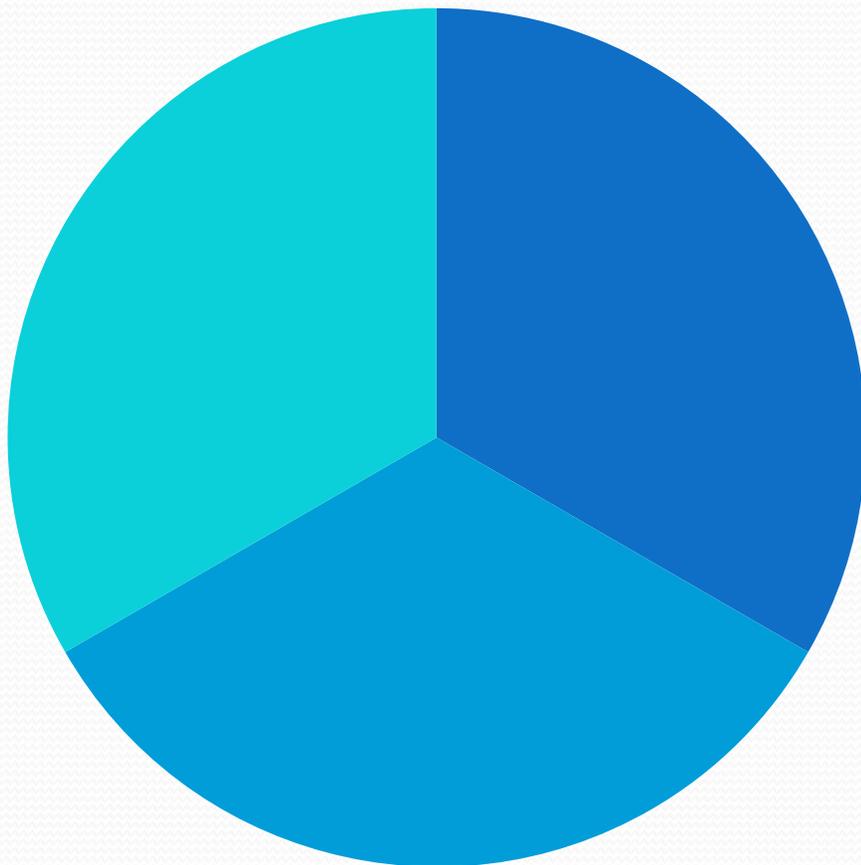
# C Apportionment

- Funds come from 2.66 cents per gallon user fee on gasoline sales
- Funds was not used on local roads until 1991
- C Apportionment uses rural public road miles only

# C Apportionment

- **C Funds are apportioned to the counties in the following manner:**
  - **One third based on the ratio of the land area of the county to the land area of the state**
  - **One third based on the ratio of county population to state population as determined by the latest ten year census, and**
  - **One third based on the ratio of rural road mileage in the county to rural road mileage in the state**

# C Apportionment Funding



■ County Land Area Ratio

■ County Population Ratio

■ Local Road Mileage Ratio

STATE SECONDARY "C" PROGRAM  
 APPORTIONMENT OF FUNDS FOR FISCAL YEAR 2012-2013

County	AREA		POPULATION		RURAL ROADS		APPORTIONMENT	
	Sq. Mile	Percent	Number	Percent	Miles	Percent	Percent	Amount
Abbeville	508	1.69	25,417	0.55	921	1.60	1.28	883,200
Aiken	1,073	3.56	160,099	3.46	2,030	3.52	3.51	2,421,900
Allendale	408	1.35	10,419	0.22	545	0.95	0.84	579,600
Anderson	718	2.38	187,126	4.05	2,436	4.23	3.55	2,449,500
Bamberg	393	1.31	15,987	0.35	674	1.17	0.94	648,600
Barnwell	549	1.82	22,621	0.49	634	1.10	1.14	786,600
Beaufort	587	1.95	162,233	3.51	715	1.24	2.23	1,538,700
Berkeley	1,100	3.65	177,843	3.84	1,751	3.04	3.51	2,421,900
Calhoun	380	1.26	15,175	0.33	608	1.05	0.88	607,200
Charleston	917	3.05	350,209	7.57	1,153	2.00	4.21	2,904,900
Cherokee	393	1.31	55,342	1.20	980	1.70	1.40	966,000
Chester	581	1.93	33,140	0.72	937	1.63	1.43	986,700
Chesterfield	799	2.65	46,734	1.01	1,691	2.94	2.20	1,518,000
Clarendon	607	2.02	34,971	0.76	1,091	1.89	1.56	1,076,400
Colleton	1,056	3.51	38,892	0.84	1,244	2.16	2.17	1,497,300
Darlington	562	1.87	68,681	1.48	1,129	1.96	1.77	1,221,300
Dillon	405	1.35	32,062	0.69	813	1.41	1.15	793,500
Dorchester	575	1.91	136,555	2.95	956	1.66	2.17	1,497,300
Edgefield	502	1.67	26,985	0.58	870	1.51	1.25	862,500
Fairfield	687	2.28	23,956	0.52	910	1.58	1.46	1,007,400
Florence	799	2.65	136,885	2.96	1,558	2.71	2.77	1,911,300
Georgetown	815	2.71	60,158	1.30	821	1.43	1.81	1,248,900
Greenville	792	2.63	451,225	9.75	2,686	4.66	5.68	3,919,200
Greenwood	456	1.51	69,661	1.51	938	1.63	1.55	1,069,500
Hampton	560	1.86	21,090	0.46	677	1.18	1.17	807,300
Horry	1,134	3.77	269,291	5.82	2,087	3.62	4.40	3,036,000
Jasper	654	2.17	24,777	0.54	615	1.07	1.26	869,400
Kershaw	726	2.41	61,697	1.33	1,386	2.41	2.05	1,414,500
Lancaster	549	1.82	76,652	1.66	1,144	1.98	1.82	1,255,800
Laurens	713	2.37	66,537	1.44	1,322	2.30	2.04	1,407,600
Lee	410	1.36	19,220	0.42	707	1.23	1.00	690,000
Lexington	700	2.32	262,391	5.67	2,202	3.82	3.94	2,718,600
McCormick	360	1.20	10,233	0.22	804	1.39	0.94	648,600
Marion	489	1.62	33,062	0.71	862	1.50	1.28	883,200
Marlboro	480	1.59	28,933	0.62	920	1.60	1.27	876,300
Newberry	631	2.10	37,508	0.81	1,118	1.94	1.62	1,117,800
Oconee	625	2.08	74,273	1.61	1,407	2.44	2.04	1,407,600
Orangeburg	1,106	3.67	92,501	2.00	2,244	3.90	3.19	2,201,100
Pickens	497	1.65	119,224	2.58	1,190	2.07	2.10	1,449,000
Richland	757	2.51	384,504	8.31	2,410	4.18	5.00	3,450,000
Saluda	451	1.50	19,875	0.43	990	1.72	1.22	841,800
Spartanburg	811	2.69	284,307	6.15	2,590	4.50	4.45	3,070,500
Sumter	665	2.21	107,456	2.32	1,330	2.31	2.28	1,573,200
Union	514	1.71	28,961	0.63	753	1.31	1.22	841,800
Williamsburg	934	3.10	34,423	0.74	1,252	2.17	2.00	1,380,000
York	683	2.27	226,073	4.89	1,489	2.59	3.25	2,242,500
Total	30,111	100.00	4,625,364	100.00	57,590	100.00	100.00	69,000,000

# What is the LADC Project

- Provides a methodology that local agencies can use to submit GIS and roadway attribute data to SCDOT.
- Provides automatic notifications to SCDOT staff that new data has been uploaded.
- Provides Quality Assurance and Quality Control (QA/QC) processes to normalize data.
- Provides data migration and uploading processes to incorporate data into SCDOT's GIS and RIMS (Roadway Information Management System) applications.
- SCDOT will benefit by having the most accurate information statewide, including address information that will result in a statewide routable road network.
- Local Agencies could benefit from increased funding from more accurate recording of highway miles.

## LADC and MAP-21

- **Started LADC approximately 4 years ago to collect data from counties in order to create new maps and for C Apportionment table.**
- **State GIS Coordinator, Tim De Troye, involved in planning phase of the project.**
- **In 2012 Congress passed MAP-21, the new Transportation bill.**
- **Part of MAP-21 requires DOTs to collect local road data and does not provide additional funds.**
- **LADC became SCDOT's answer to collecting this GIS and attribute data.**

# **LADC and MAP-21**

## **What it Means to You**

- **Information needed for roads open to the public.**
- **Counties are NOT required to collect any additional data.**
- **SCDOT will assign a default value to any attribute that is required but is not available.**

# What is a Public Road?

- **Ownership does not matter, only access**
- **Road any member of the public can freely travel**
- **Not impeded by gates or signs**
- **Not limited access**
- **Does not include driveways, school drives, parking lots**

# GIS Attribute Model and Defaults

SCDOT Field Names	Description	Field Type	County Field Name & Values
ONEWAY	One Way Identifier	Number	0 - Two Way
	0 – Two Way		
	1 – One Way Running Opposite Direction		
	2 – One Way		
PREFIX	Street Prefix (N, E, S, W, etc.)	Text	
NAME	Street Name	Text	
TYPE	Street Type (ST, AVE, LN, CT, etc.)	Text	
SUFFIX	Street Suffix (N, E, S, W, etc.)	Text	
LADD1	Left From Address Number	Number	
LADD2	Left To Address Number	Number	
RADD1	Right From Address Number	Number	
RADD2	Right To Address Number	Number	
ZIPL	Left Side Zip Code	Number	
ZIPR	Right Side Zip Code	Number	
ESNL	Left Side ESN	Text	
ESNR	Right Side ESN	Text	
COMMUNEL	Left Side Community	Text	
COMMUNER	Right Side Community	Text	

# RIMS Attribute Model and Defaults

SCDOT Field Names	SCDOT Values	Field Type	County Field Name & Values
Right Outside Sidewalk		Number	0 - None
	0 - None		
	1 - Concrete		
	2 - Bituminous, Stone, Brick, or Other		
Right Outside Shoulder Treatment		Number	0 - None
	0 - None		
	1 - Bituminous Treatment		
	2 - Bituminous Valley Gutter		
	3 - Bituminous Treatment & Earth		
Right Outside Shoulder Width	Actual Value	Number	0
Right Outside Curb & Gutter		Number	0 – No Curb/Gutter Present
	0 – No Curb/Gutter Present		
	1 – Curb/Gutter Present		
Right Physical Surface Type		Number	1 – Primitive or Unimproved Earth
	0 - Proposed Location		
	1 - Primitive or Unimproved Earth		
	15 - Dual Type - BSLT (predominant)		
	17 - Dual Type - BSHT (predominant)		
	19 - Dual Type - Concrete (Predominant)		
	2 - Graded & Drained		
	3 - Sand, Soil, Clay, Gravel, or Stone		
	5 - BSLT		
	7 - BSHT		
	9 - Concrete(PCC) or Brick		
Right Surface Width	Actual Value	Number	20
Number of Right Lanes	Actual Value	Number	2

# RIMS Attribute Model and Defaults

Left Outside Sidewalk		Number	0 - None
	0 - None		
	1 - Concrete		
	2 - Bituminous, Stone, Brick, or Other		
Left Outside Shoulder Treatment		Number	0 - None
	0 - None		
	1 - Bituminous Treatment		
	2 - Bituminous Valley Gutter		
	3 - Bituminous Treatment & Earth		
Left Outside Shoulder Width	Actual Value	Number	0
Left Outside Curb & Gutter		Number	0 – No Curb/Gutter Present
	0 – No Curb/Gutter Present		
	1 – Curb/Gutter Present		
Left Physical Surface Type		Number	1 – Primitive or Unimproved Earth
	0 - Proposed Location		
	1 - Primitive or Unimproved Earth		
	15 - Dual Type - BSLT (predominant)		
	17 - Dual Type - BSHT (predominant)		
	19 - Dual Type - Concrete (Predominant)		
	2 - Graded & Drained		
	3 - Sand, Soil, Clay, Gravel, or Stone		
	5 - BSLT		
	7 - BSHT		
	9 – Concrete(PCC) or Brick		
Left Surface Width	Actual Value	Number	0
Number of Left Lanes	Actual Value	Number	0

# RIMS Attribute Model and Defaults

Is Divided		Number	0 - No
	0 - No		
	1 - Yes		
Access Control		Number	0 - None
	0 - None		
	1 - Partial		
	2 - Full		
Median Type		Number	
	0 - Non-divided		0 - Non-divided
	1 - Divided - Earth median		
	2 - Divided - Concrete median		
	3 - Multi-lane - bituminous Median		
	4 - Divided - Raised Concrete & Surfaced Median		
	5 - Divided - Physical Barrier		
	6 - Divided - Cable Stay Guardrail		
	8 - One-way street		
Median Width	Actual Value	Number	0
AADT	Actual Value	Number	50

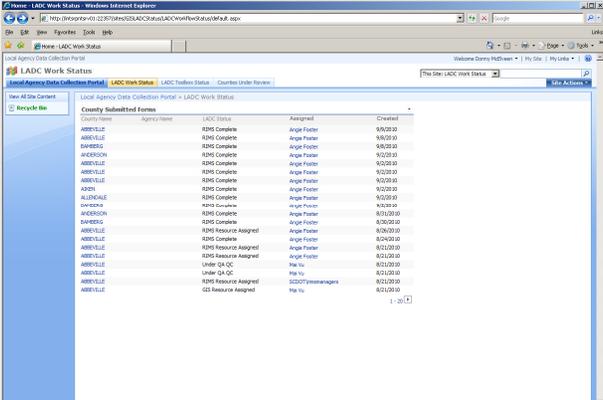
# Submitting

- **Once you have submitted your data you are locked from submitting that county until finished**
- **Best time for submitting for SCDOT will be late Spring to early Fall**

# Solution Components

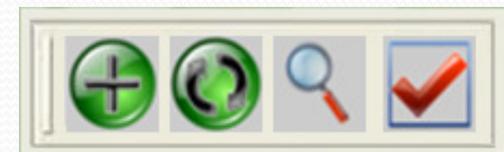
LADC has two key components:

- **LADC Management Portal**
  - Local Agency Data Submission Website
  - Internal Process Tracking Web Site
  - Used by Local Agencies and SCDOT
  
- **LADC Toolbox (GeoMedia)**
  - Data Loader Module
  - Spatial QA/QC Module
  - Interactive QC Module
  - Master Update Module
  - Used by SCDOT Staff



The screenshot shows a web browser window displaying the 'LADC Work Status' application. The main content is a table with columns for County Name, Agency Name, LADC Status, Assigned, and Created. The table lists various counties and their corresponding agencies and submission dates.

County Name	Agency Name	LADC Status	Assigned	Created
ABBEVILLE	RMS Complete	Angle Printer		9/8/09 09:00
ABBEVILLE	RMS Complete	Angle Printer		9/8/09 09:00
DARRENG	RMS Complete	Angle Printer		9/8/09 09:00
ANDERSON	RMS Complete	Angle Printer		9/22/09 09:00
ABBEVILLE	RMS Complete	Angle Printer		9/22/09 09:00
ABBEVILLE	RMS Complete	Angle Printer		9/22/09 09:00
ABBEVILLE	RMS Complete	Angle Printer		9/22/09 09:00
ABBEVILLE	RMS Complete	Angle Printer		9/22/09 09:00
ABBEVILLE	RMS Complete	Angle Printer		9/22/09 09:00
ABBEVILLE	RMS Complete	Angle Printer		9/22/09 09:00
ABBEVILLE	RMS Complete	Angle Printer		9/22/09 09:00
ABBEVILLE	RMS Resource Assigned	Angle Printer		8/26/09 09:00
ABBEVILLE	RMS Resource Assigned	Angle Printer		8/26/09 09:00
ABBEVILLE	RMS Resource Assigned	Angle Printer		8/26/09 09:00
ABBEVILLE	Unfiled QA/QC	File to		8/26/09 09:00
ABBEVILLE	RMS Resource Assigned	SCDOT/Management		8/26/09 09:00
ABBEVILLE	GIS Resource Assigned	File to		8/26/09 09:00



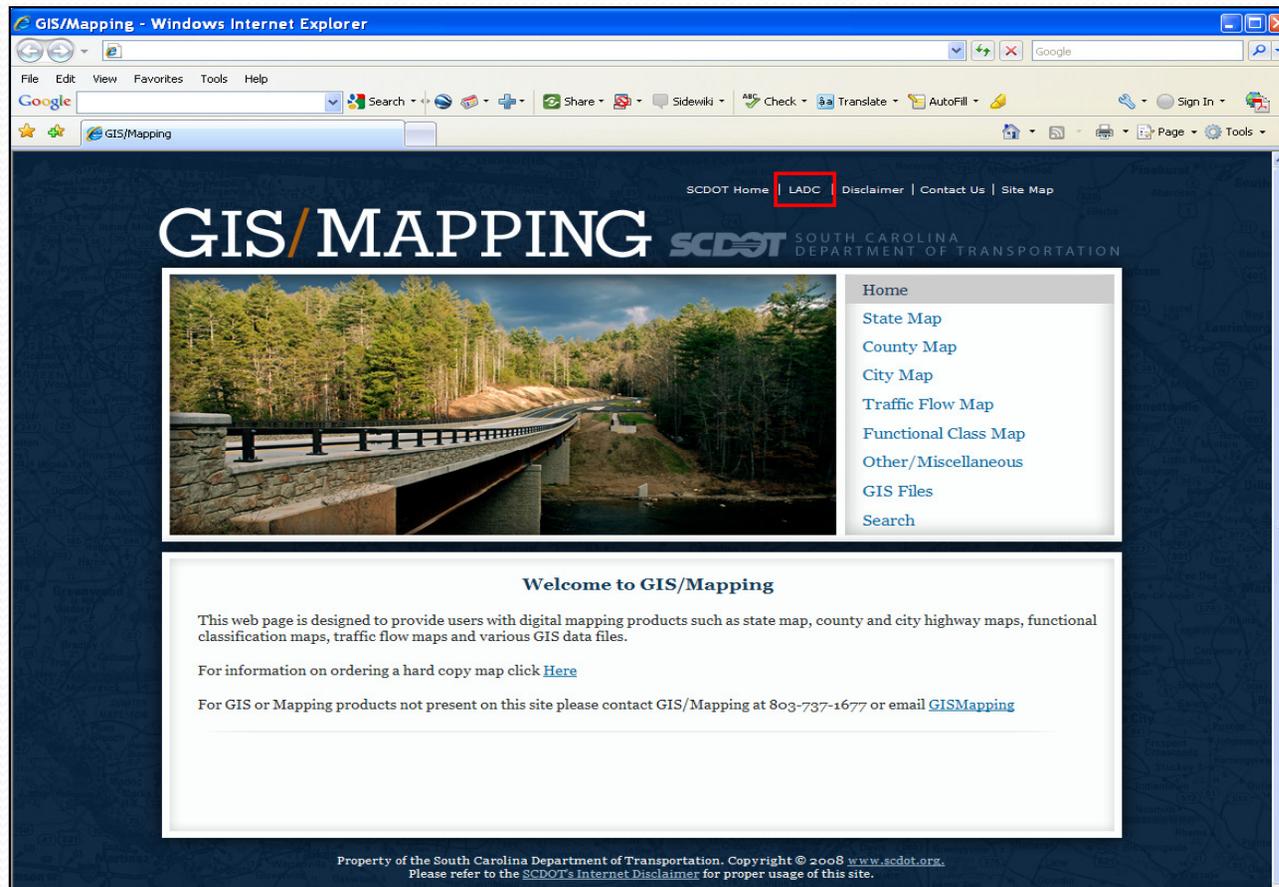


# LADC Management Portal Overview

# 1. Local Agency Account Request

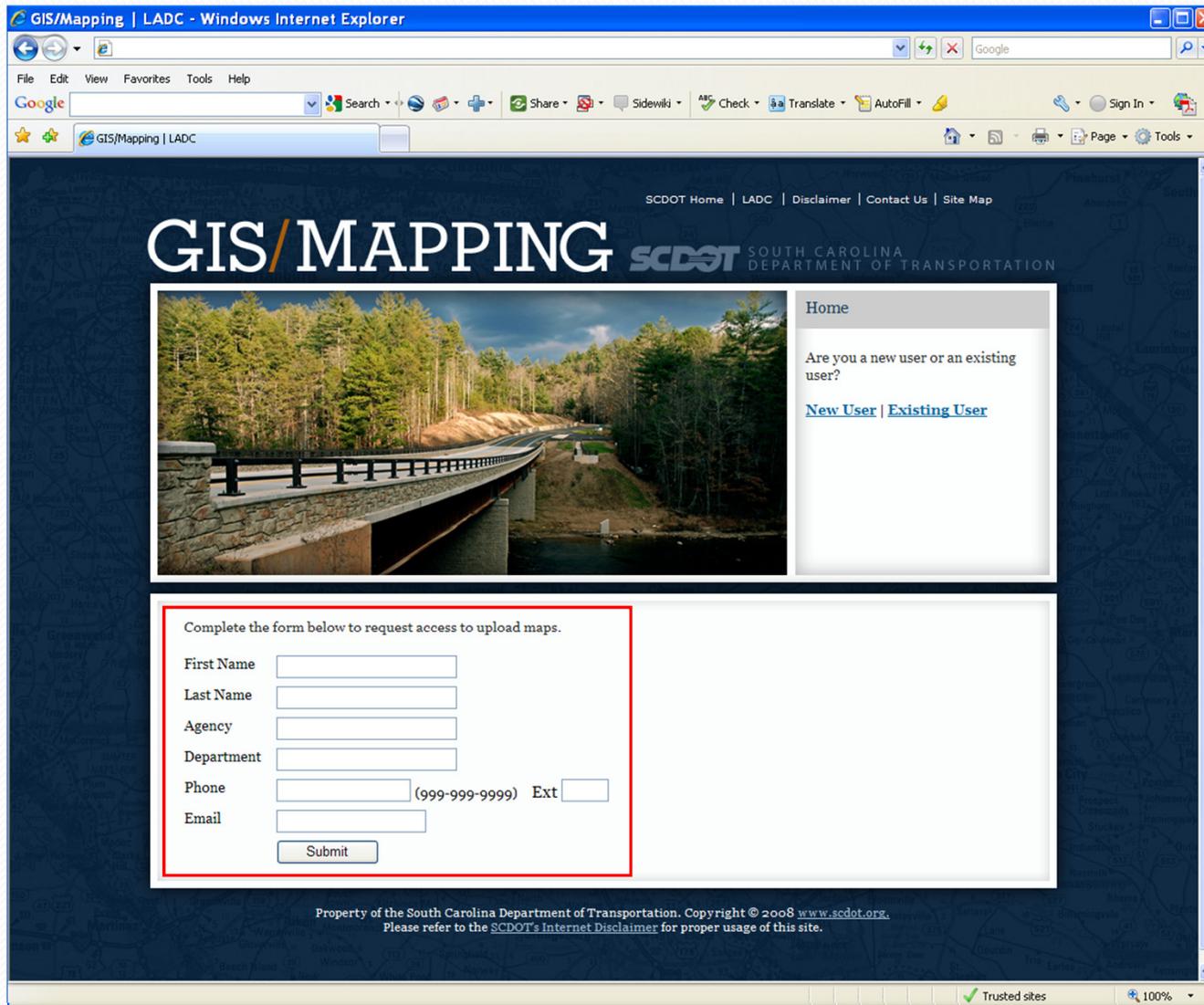
If your agency does not have an SCDOT account:

- Use LADC Link on GIS Mapping Website Homepage
- <http://dbw.scdot.org/GISMapping/>



# 1. Local Agency Account Request

- Fill out account info and submit



The screenshot shows a web browser window displaying the GIS/MAPPING LADC website. The browser's address bar shows the URL "GIS/Mapping | LADC". The website header includes navigation links for "SCDOT Home", "LADC", "Disclaimer", "Contact Us", and "Site Map". The main content area features a large image of a road bridge over a river, with the text "GIS/MAPPING SCDOT SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION" overlaid. To the right of the image is a "Home" section with the question "Are you a new user or an existing user?" and links for "New User" and "Existing User". Below this is a registration form titled "Complete the form below to request access to upload maps." The form contains the following fields: First Name, Last Name, Agency, Department, Phone (with a placeholder for area code and extension), and Email. A "Submit" button is located at the bottom of the form. The footer of the page contains the text: "Property of the South Carolina Department of Transportation. Copyright © 2008 www.scdot.org. Please refer to the SCDOT's Internet Disclaimer for proper usage of this site." The browser's status bar at the bottom indicates "Trusted sites" and "100%" zoom.

GIS/Mapping | LADC - Windows Internet Explorer

SCDOT Home | LADC | Disclaimer | Contact Us | Site Map

# GIS/MAPPING

SCDOT SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

Home

Are you a new user or an existing user?

[New User](#) | [Existing User](#)

Complete the form below to request access to upload maps.

First Name

Last Name

Agency

Department

Phone  (999-999-9999) Ext

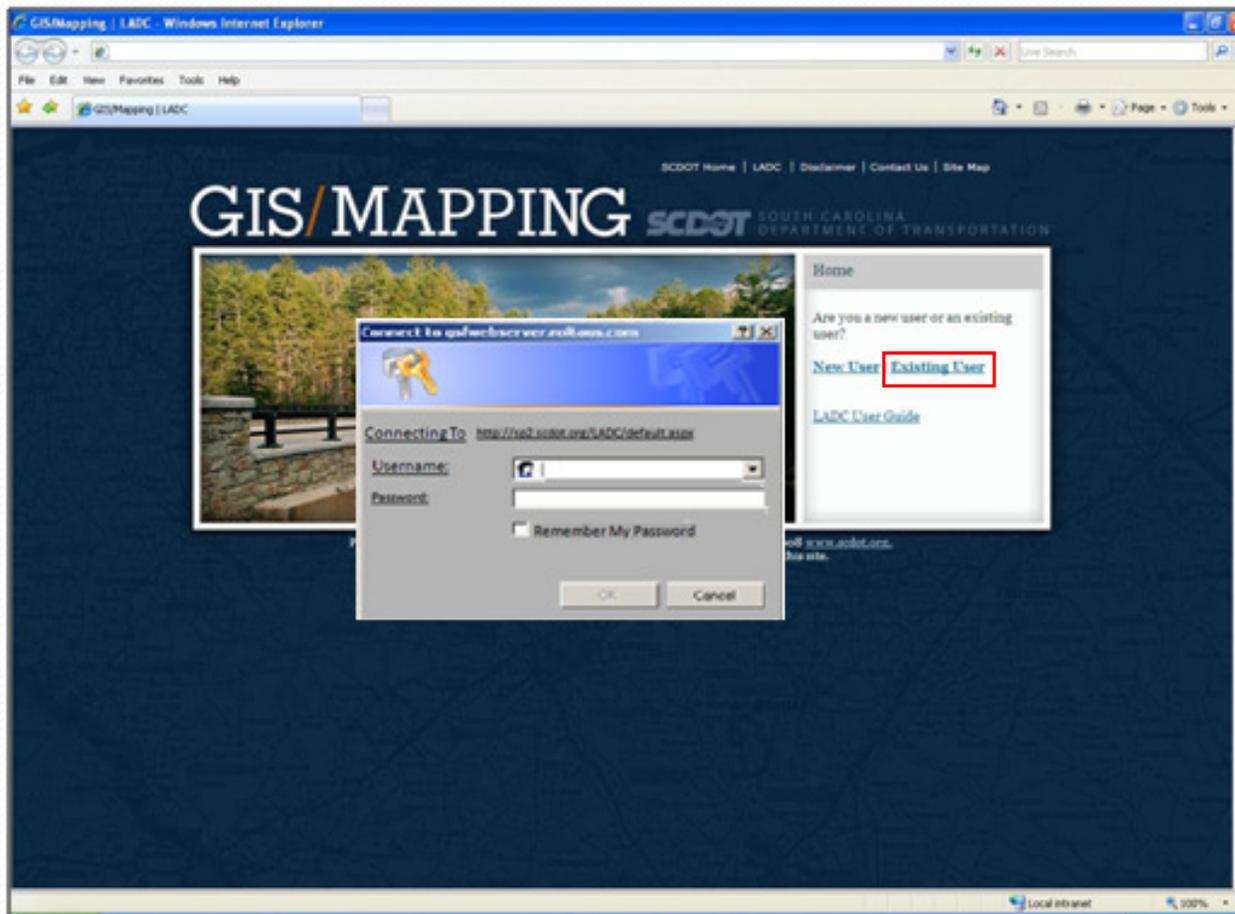
Email

Property of the South Carolina Department of Transportation. Copyright © 2008 [www.scdot.org](http://www.scdot.org).  
Please refer to the [SCDOT's Internet Disclaimer](#) for proper usage of this site.

Trusted sites 100%

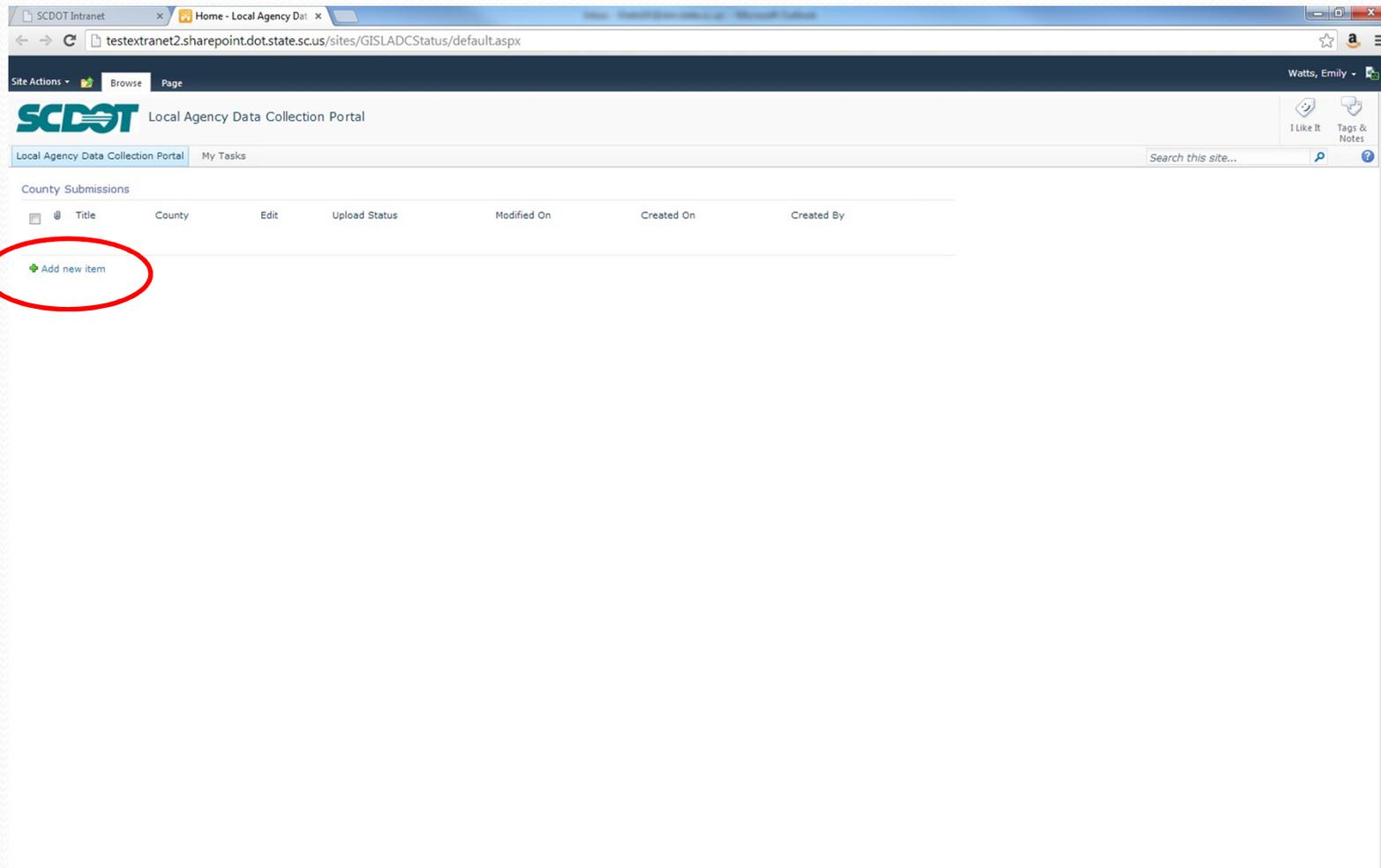
## 2. Local Agency Login

- If you have an account, or once an account is established:
  - Navigate directly to URL
  - Or, connect via link on GIS Mapping Website



# 3. Local Agency Data Submission Portal

- Review status of previously submitted data
- Submit new data from this page



County Submission Add Form



Title:

County:

 Add Attachment



County Submission Add Form



**Title:**

**County:** Abbeville County ▼

Use this page to add attachments to an item.

**Name**  No file chosen



Open

Navigation: << LADC\_FILE\_SHARE >> ANDERSON > Data > Search Data

Organize New folder

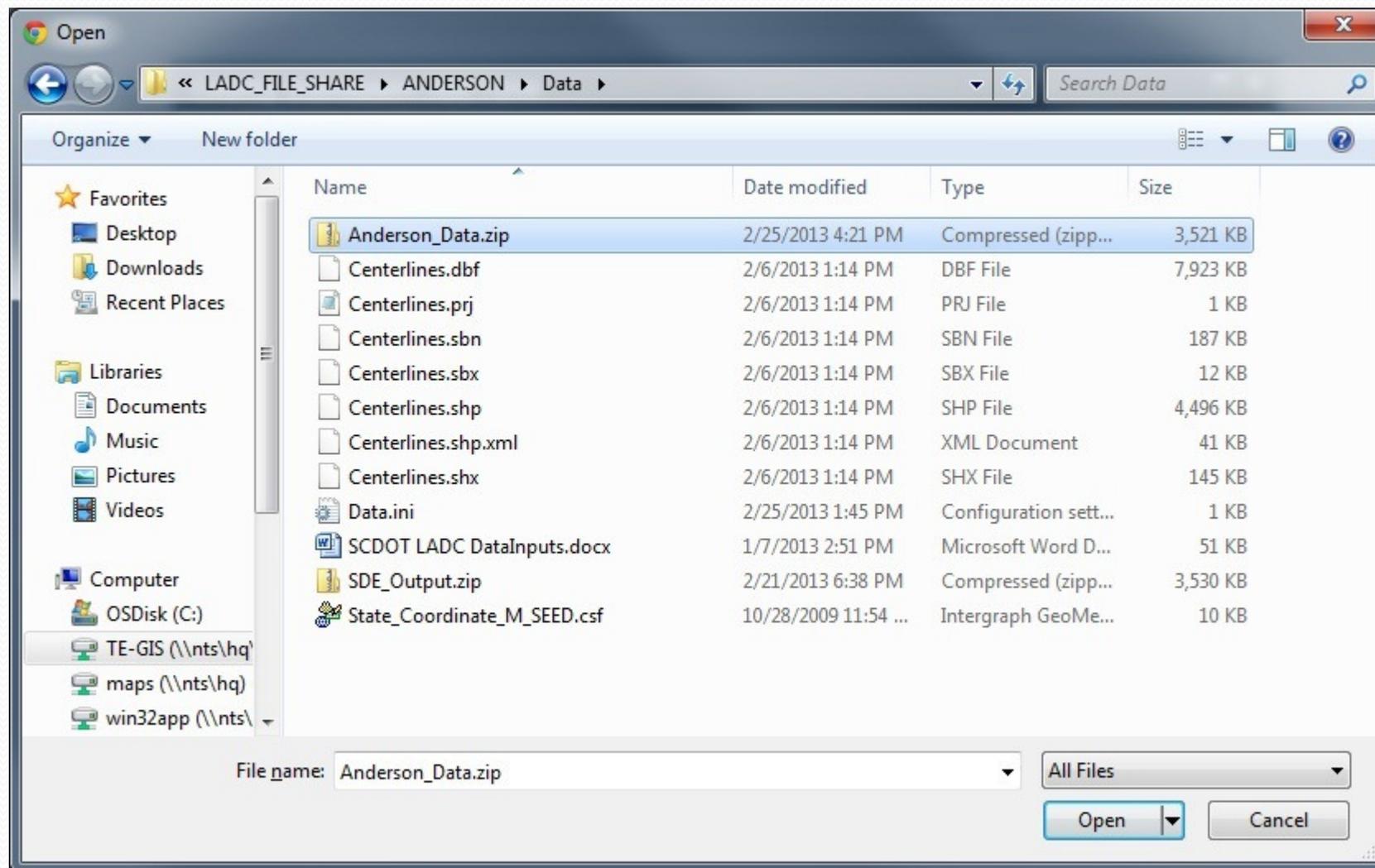
Name	Date modified	Type	Size
Anderson_Data.zip	2/25/2013 4:21 PM	Compressed (zipp...	3,521 KB
Centerlines.dbf	2/6/2013 1:14 PM	DBF File	7,923 KB
Centerlines.prj	2/6/2013 1:14 PM	PRJ File	1 KB
Centerlines.sbn	2/6/2013 1:14 PM	SBN File	187 KB
Centerlines.sbx	2/6/2013 1:14 PM	SBX File	12 KB
Centerlines.shp	2/6/2013 1:14 PM	SHP File	4,496 KB
Centerlines.shp.xml	2/6/2013 1:14 PM	XML Document	41 KB
Centerlines.shx	2/6/2013 1:14 PM	SHX File	145 KB
Data.ini	2/25/2013 1:45 PM	Configuration sett...	1 KB
SCDOT LADC DataInputs.docx	1/7/2013 2:51 PM	Microsoft Word D...	51 KB
SDE_Output.zip	2/21/2013 6:38 PM	Compressed (zipp...	3,530 KB
State_Coordinate_M_SEED.csf	10/28/2009 11:54 ...	Intergraph GeoMe...	10 KB

File name: Anderson\_Data.zip All Files

Open Cancel

# Zip File

- **Should Contain:**
  - **Shape file of attributed roads**
  - **Completed Attribute Table**
- **Optional:**
  - **Shape file of County Boundary**
  - **Any additional files**



County Submission Add Form



**Title:**

**County:**

 [Add Attachment](#)    C:\fakepath\Anderson\_Data.zip     [Delete](#)



Home - Local Agency Data Collection Portal

testextranet2.sharepoint.dot.state.sc.us/sites/GISLADCStatus/default.aspx

MSDN.com | wltx.com The Midland... | SCEIS | Recipes | SCDOT Web Transfe... | Shikha's Meeting | WW Online

Watts, Emily

### SCDOT Local Agency Data Collection Portal

Local Agency Data Collection Portal | My Tasks

Search this site...

#### County Submissions

Title	County	Edit	Upload Status	Modified On	Created On	Created By
test	Abbeville County		Pending	11/19/2013	11/19/2013	Watts, Emily

[Add new item](#)



SCDOT Intranet x Home - Local Agency Dat x

testextranet2.sharepoint.dot.state.sc.us/sites/GISLADDCStatus/default.aspx

Site Actions | Browse | Page | Watts, Emily

### SCDOT Local Agency Data Collection Portal

Local Agency Data Collection Portal | My Tasks | Search this site...

#### County Submissions

Title	County	Edit	Upload Status	Modified On	Created On	Created By
test	Abbeville County		In-Progress	11/13/2013	11/13/2013	Watts, Emily

[+ Add new item](#)



# LADC Toolbox Overview

# LADC Toolbox



- **Single Geomedia Toolbar**

- **4 Core Modules**



## **Data Loader Module**

- Map Local Agency Data to GIS and RIMS fields



## **Spatial QA/QC Module**

- Evaluate data and assign resolutions



## **Interactive QA/QC Module**

- Review and modify results, approve or reject resolutions



## **Master Update Module**

- Reconcile Master GIS database and prep data for RIMS

# Data Loader Module



**LADC Data Loader** [X]

Selected county is Lexington

GIS Field Mapping

SCDOT Fields	Local Agency Fields
ONEWAY	ONEWAY
PREFIX	PRE_DIR
NAME	STREET_NAM
TYPE	STREET_TYP
SUFFIX	SUF_DIR
LADD1	L_ADD_FROM

Next

Cancel

**LADC Data Loader** [X]

Selected county is Lexington

RIMS Field Mapping

SCDOT Fields	Local Agency Fields
Right Outside Sidewalk	SIDEWALK
Right Outside Shoulder Treatment	
Right Outside Shoulder Width	
Right Outside Curb & Gutter	
Right Physical Surface Type	
Right Surface Width	

Back

Populate Staging Database

Cancel

# Spatial QA/QC Module



- Brings county data into ORACLE
- Checks coordinate system
- Verifies data is within county boundary
- Clips data at county boundary
- Verifies geometry type – polyline
- Splits data at intersections
- Assigns resolutions for Interactive QA/QC

# Interactive QA/QC Module



**LADC Interactive QA/QC**

Selected county is: Lexington

Select Layer:  Interactive QA/QC Phase

Initial Interactive QA/QC  Post-process QA/QC

Review QA/QC Result Category

Sort by...  Route Number

Street Name  LADC Comments

Analyze

**Other\_Roads - Road Additions**

LADC_ID	LADC_POSTPROCESS_COMMENTS	FEATURE_TYPE	
LADC320579085		Paved_CoRd	32
LADC320579086		Paved_CoRd	32
LADC320579087		Paved_CoRd	32
LADC320579088		Paved_CoRd	32
LADC320579089		Paved_CoRd	32
LADC320579090		Paved_CoRd	32
LADC320579091		Paved_CoRd	32
LADC320579092		Paved_CoRd	32

Record: 1 of 38

Change/Assign Resolution

Resolution:  IDs For Update/Insert Resolution:

Assign

Approve/Reject QA/QC Result Category

Approve Reject

# Interactive QA/QC Module



The screenshot displays the GeoMedia Professional software interface for the Interactive QA/QC module. The main window is titled "GeoMedia Professional - Subset.gws". The interface is divided into several sections:

- Map Window:** Shows a map with road features. The legend includes "Other\_Roads - Road Addition", "Highways\_lexsc\_25 - Base L", and "other\_roads\_lexsc\_25 - Base".
- Interactive QA/QC Panel:** Contains controls for the QA/QC process. The selected county is "Lexington". The "Interactive QA/QC Phase" is set to "Initial Interactive QA/QC". The "Review QA/QC Result Category" is "Road Additions".
- Data Table:** Displays a table of road features. The table has columns for LADC\_ID, LADC\_POSTPROCESS\_COMMENTS, FEATURE\_TYPE, and COUNTY.
- Resolution and Approval Controls:** Includes fields for "Change/Assign Resolution", "Resolution", and "IDs For Update/Insert Resolution", along with "Approve" and "Reject" buttons.

LADC_ID	LADC_POSTPROCESS_COMMENTS	FEATURE_TYPE	COUNTY
LADC320579085		Paved_CoRd	32
LADC320579086		Paved_CoRd	32
LADC320579087		Paved_CoRd	32
LADC320579088		Paved_CoRd	32
LADC320579089		Paved_CoRd	32
LADC320579090		Paved_CoRd	32
LADC320579091		Paved_CoRd	32
LADC320579092		Paved_CoRd	32
LADC320579093		Paved_CoRd	32
LADC320579094		Paved_CoRd	32

# Master Update Module



**LADC GIS Master Update** [Close]

Selected county is: Lexington

**Pre-processing**

Pre-process Data      View Log

**GIS**

Update Master

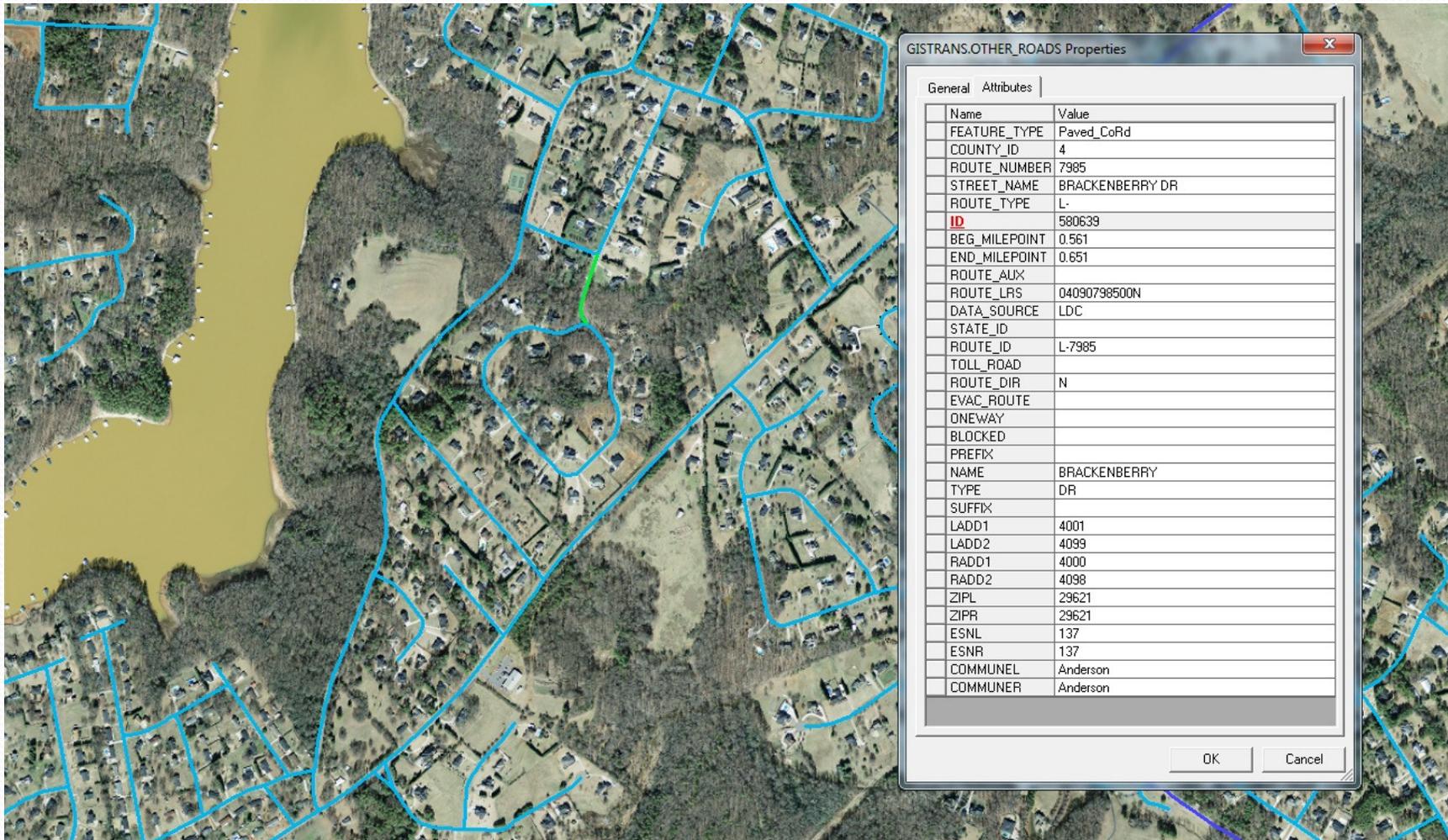
View Log

**RIMS**

RIMS Export

View Log

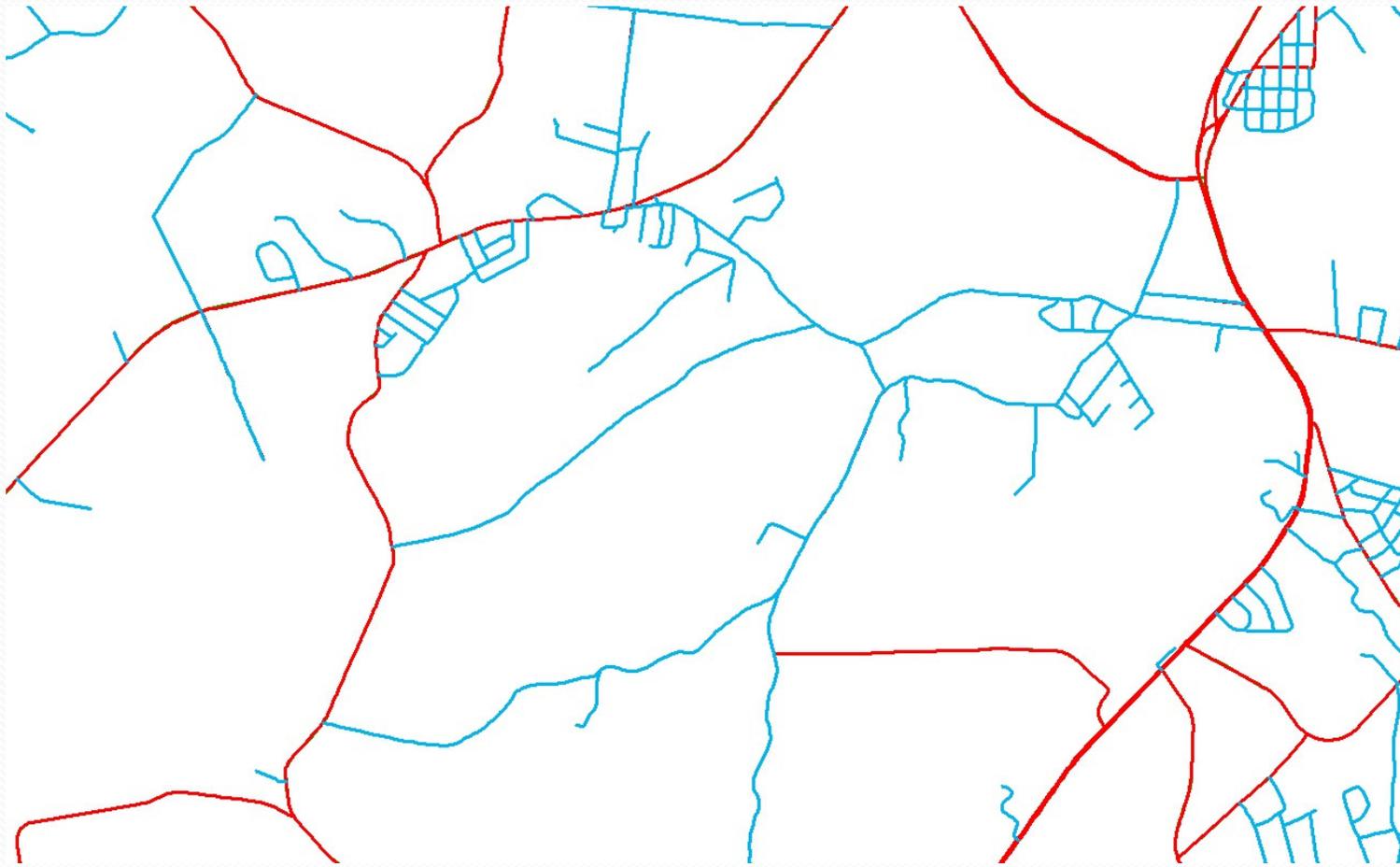
# Final Product



# Final Product - Before



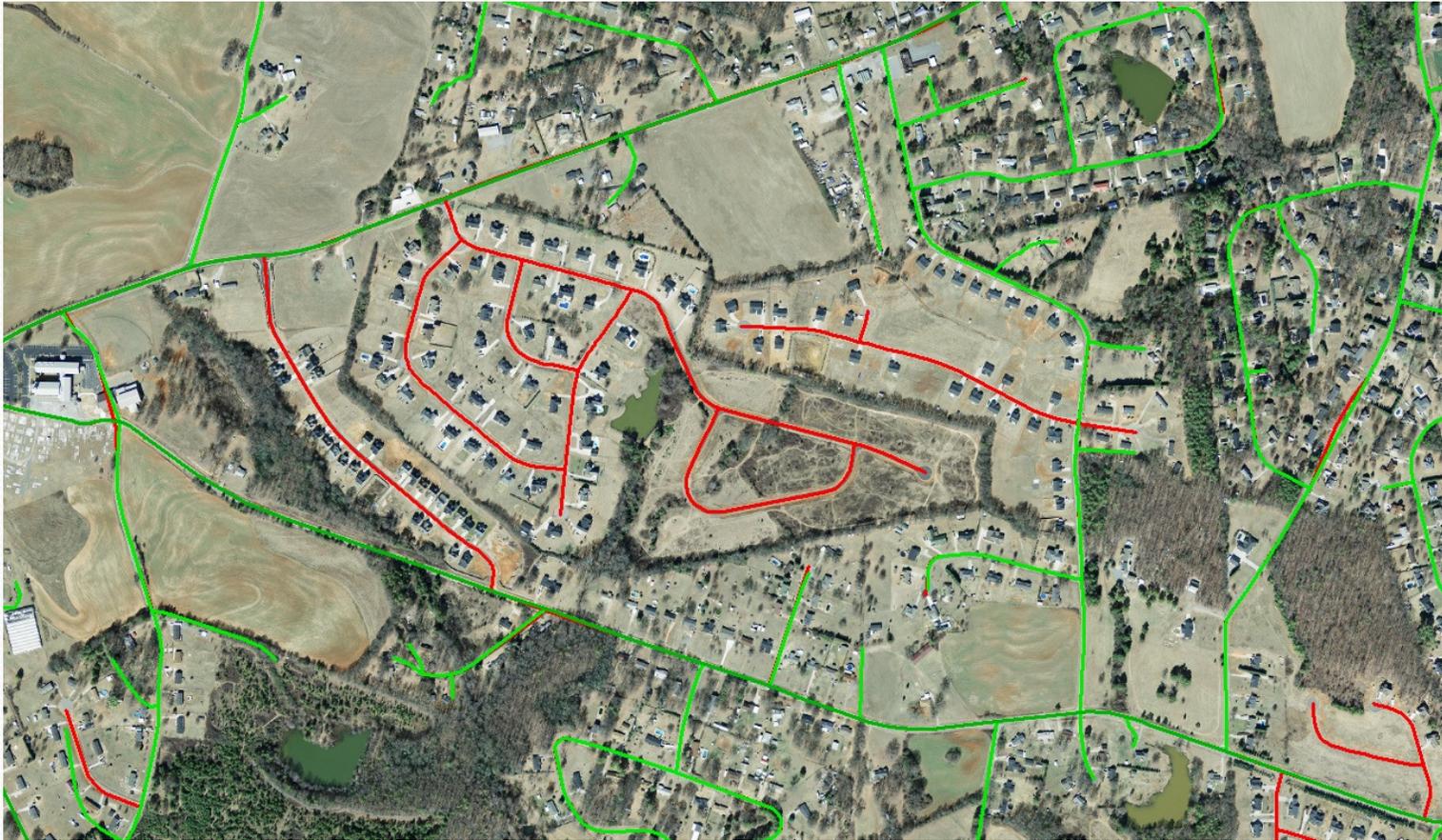
# Final Product - After



# Final Product - Before



# Final Product - After



# Final Product - Before



# Final Product - After

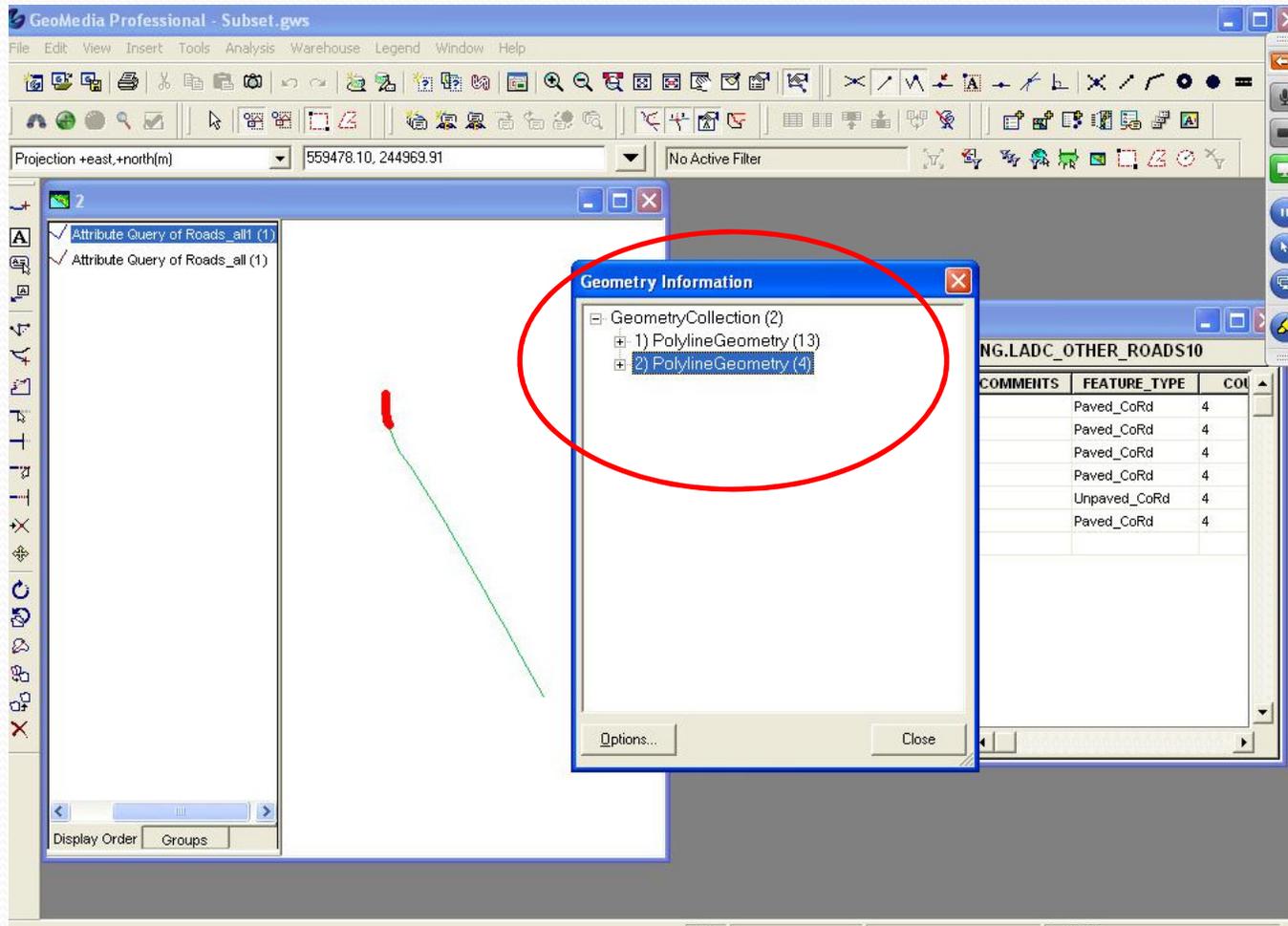


# Common Problems - Geometry



Undershoot

# Common Problems - Geometry

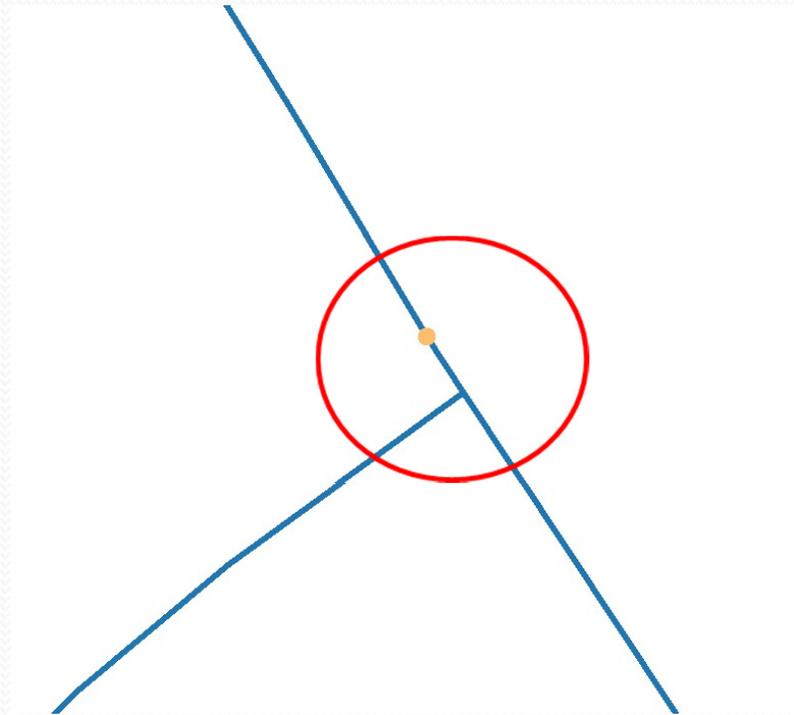
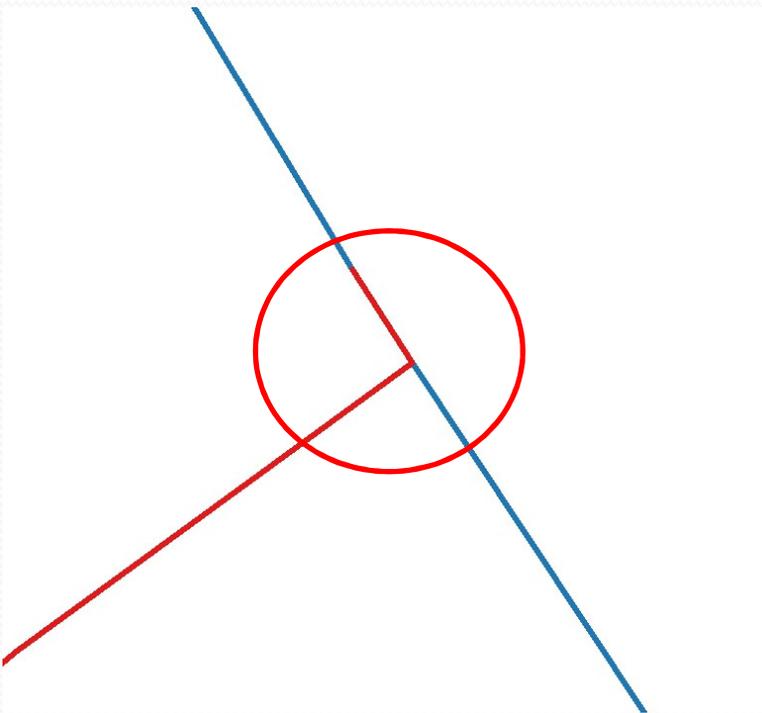


# Common Problems - Geometry



Not SCDOT Maintained

# Common Problems - Geometry

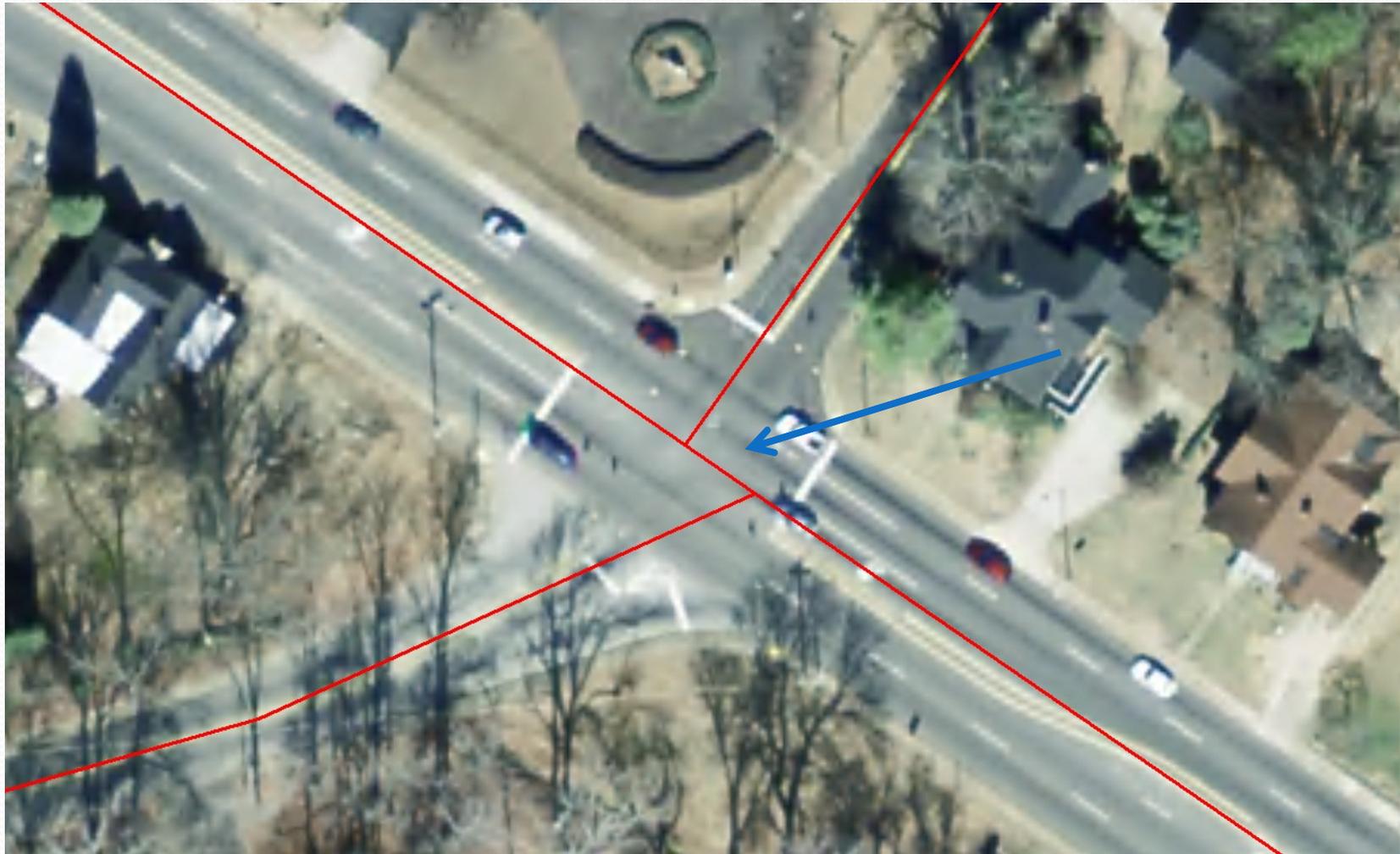


Overlapping Routes

# Common Problems - Geometry



# Common Problems - Intersections



# Common Problems - Intersections



# Common Problems - Data

- Boundaries
  - Municipal
  - County
- Address Ranges
  - Duplication
  - Incorrect Range
- Missing Data
  - No Route Information
  - No Street Name

# Questions?

**For Additional Information:**

**Donald McElveen  
SCDOT GIS Manager**

**[mcelveende@dot.state.sc.us](mailto:mcelveende@dot.state.sc.us)**

**803-737-1677**

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- County Map
- City Map
- Traffic Flow Map
- Functional Class Map
- Other/Miscellaneous
- GIS Files
- Search

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This web page is designed to provide users with digital mapping products such as state map, county and city highway maps, functional classification maps, traffic flow maps and various GIS data files.

For information on ordering a hard copy map click [Here](#)

For GIS or Mapping products not present on this site please contact GIS/Mapping at 803-737-1677 or email [GISMapping](#)

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- [2011 State Highway Map](#)
- [2009 State Highway Map](#)

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County

To Find a County Select from either the dropdown menu or click a county on the map





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Aiken

To Find a County Select from either the dropdown menu or click a county on the map



<u>Filename</u>	<u>File Description</u>	<u>File Size</u>
<a href="#">Aiken County.pdf</a>	General Highway Map of Aiken County	6766KB

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Select by County

Select by City

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Select by City

County  Go

To find maps for a specific county, select the county from either the dropdown menu or click a county on the map.

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- Abbeville
- Aiken
- Allendale
- Anderson
- Bamberg
- Barnwell
- Beaufort
- Berkeley
- Calhoun
- Charleston
- Cherokee
- Chester
- Chesterfield
- Clarendon
- Colleton
- Darlington
- Dillon
- Dorchester
- Edgefield



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Select by City

Lexington

Go

To find maps in a county, select the county from either the dropdown menu or click a county on the map.



<u>Filename</u>	<u>File Description</u>	<u>File Size</u>
<a href="#">Batesburg Leesville City.pdf</a>	General Highway Map of Batesburg Leesville	1213KB
<a href="#">Chapin City.pdf</a>	General Highway Map of Chapin	6535KB
<a href="#">Columbia City.pdf</a>	General Highway Map of Columbia	41777KB
<a href="#">Gilbert Summit City.pdf</a>	General Highway City Map of Gilbert	648KB
<a href="#">Pelion City.pdf</a>	General Highway City Map of Pelion	721KB
<a href="#">Summit Gilbert City.pdf</a>	General Highway City Map of Summit Gilbert	648KB

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Select by County

Please select a letter that corresponds with City Name

[A] [B] [C] [D] [E] [F] [G] [H] [I] [J] [K] [L] [M] [N] [O] [P] [Q] [R] [S] [T] [U] [V] [W] [X] [Y] [Z]

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<u>Filename</u>	<u>File Description</u>	<u>File Size</u>
<a href="#">Abbeville City.pdf</a>	General Highway Map of Abbeville City	1233KB
<a href="#">Aiken North Augusta City.pdf</a>	General Highway City Map of Aiken & North Augusta	9300KB
<a href="#">Alcolu City.pdf</a>	General Highway City Map of Alcolu	450KB
<a href="#">Allendale City.pdf</a>	General Highway City Map of Allendale	912KB
<a href="#">Anderson City.pdf</a>	General Highway Map of Anderson City	11370KB
<a href="#">Andrews City.pdf</a>	General Highway City Map of Andrews	991KB
<a href="#">Antioch Acres City.pdf</a>	General Highway City Map of Antioch Acres	305KB
<a href="#">Aynor City.pdf</a>	General Highway Map of Aynor	492KB

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<u>Filename</u>	<u>File Description</u>	<u>File Size</u>
<a href="#">Commission Districts.pdf</a>	Commission Districts in South Carolina	698KB
<a href="#">County Outline.pdf</a>	SC County Outline Map Displaying County Names Only	1451KB
<a href="#">Engineering Districts.pdf</a>	Engineering Districts of South Carolina	525KB
<a href="#">Regional Production Groups.pdf</a>	Regional Production Groups in South Carolina	697KB
<a href="#">SC NHS.pdf</a>	National Highway System	3257KB

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[Select Shape Files](#)

[Select Geomedia Warehouse](#)

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Select Geomedia  
Warehouse

<u>Filename</u>	<u>File Description</u>	<u>File Size</u>
<a href="#">2009 Statewide Traffic Points.zip</a>	2009 Traffic Stations- Zipped Shapefile of Traffic Count Stations maintained by SCDOT - Statewide	861KB
<a href="#">2010 Statewide Traffic Points.zip</a>	2010 Traffic Stations- Zipped Shapefile of Traffic Count Stations maintained by SCDOT - Statewide	833KB
<a href="#">2011 Statewide Traffic Lines.zip</a>	2011 Traffic Count Stations- Zipped Shapefile of Line Feature for Traffic Count Stations maintained by SCDOT including count data- Statewide	18524KB
<a href="#">2011 Statewide Traffic Points.zip</a>	2011 Traffic Stations- Zipped Shapefile of Traffic Count Stations maintained by SCDOT - Statewide	14038KB
<a href="#">2012 NHS.zip</a>	National Highway System of South Carolina - Zipped Shapefile of the National Highway System	996KB
<a href="#">2012 Statewide Traffic Lines.zip</a>	2012 Traffic Count Stations- Zipped Shapefile of Line Feature for Traffic Count Stations maintained by SCDOT including count data- Statewide	8331KB
<a href="#">2012 Statewide Traffic Points.zip</a>	2012 Traffic Stations- Zipped Shapefile of Traffic Count Stations maintained by SCDOT - Statewide	1109KB
<a href="#">Bridges.zip</a>	Bridges- Zipped Shapefile of bridges maintained by SCDOT - Statewide	712KB
<a href="#">Engineering Districts.zip</a>	Engineering Districts- Zipped Shapefile of SCDOT Engineering Districts - Statewide	1.41MB
<a href="#">Municipal Areas.zip</a>	Municipal Areas- Zipped Shapefile of annexations mapped by SCDOT - Statewide	2300KB

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GIS/Mapping x  
dbw.scdot.org/GISMapping/default.aspx

**Welcome to GIS/Mapping – GIS Files**

Select Shape Files

<u>Filename</u>	<u>File Description</u>	<u>File Size</u>
<a href="#">2009 Statewide Traffic Points Warehouse.zip</a>	2009 Traffic Stations- Geomedia Warehouse of Traffic Count Stations maintained by SCDOT - Statewide	1239KB
<a href="#">2010 Statewide Traffic Points Warehouse.zip</a>	2010 Traffic Stations- Geomedia Warehouse of Traffic Count Stations maintained by SCDOT - Statewide	2226KB
<a href="#">2011 Statewide Traffic Lines Warehouse.zip</a>	2011 Traffic Stations- Geomedia Warehouse of Traffic Count Stations maintained by SCDOT - Statewide	85210KB
<a href="#">2011 Statewide Traffic Points Warehouse.zip</a>	2011 Traffic Stations- Geomedia Warehouse of Traffic Count Stations maintained by SCDOT - Statewide	3491KB
<a href="#">2012 Traffic Lines Warehouse.zip</a>	2012 Traffic Count Stations- Zipped Geomedia Warehouse of Line Feature for Traffic Count Stations maintained by SCDOT including count data- Statewide	9252KB
<a href="#">2012 Traffic Points Warehouse.zip</a>	2012 Traffic Stations- Zipped Geomedia Warehouse of Traffic Count Stations maintained by SCDOT - Statewide	1272KB
<a href="#">Bridges Warehouse.zip</a>	Bridges- Geomedia Warehouse of bridges maintained by SCDOT - Statewide	849KB
<a href="#">Engineering Districts.zip</a>	Engineering Districts- Zipped Geomedia Warehouse of SCDOT Engineering Districts - Statewide	1.48MB
<a href="#">Municipal Areas Warehouse.zip</a>	Municipal Areas- Geomedia Warehouse of annexations mapped by SCDOT - Statewide	2327KB
<a href="#">Railroads Warehouse.zip</a>	RailRoads - Geomedia Warehouse of Railroads - Statewide	536KB

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