



SDV Pilot 2 Training

Nov 30 – Dec 1, 2010



AGENDA

- SDV Pilot 1 Introduction (John Padgett) 10 mins
 - Introduction of SDV team and Pilot 2 participants
 - Verify readiness
 - Key activities and dates
 - New wrinkles for Pilot 2
 - SDV Pilot 2 schedule “at a glance”
 - SDV Pilot 2 expectations
- Collecting Feedback for SDV Pilot 2 (Sarah Wray) 10 mins
 - Participant survey
 - Ongoing, informal feedback
 - Analyzing and summarizing feedback

AGENDA *cont'd*

- SDV Pilot 2 Overview and Training (Cathy Cole) 60 mins
 - Upfront expectations
 - Overview of SDV Pilot 2

- Q&A 10 mins

(Note: Team will be on-hand for additional 30 minutes to answer questions, as needed)

SDV Pilot 2 Participants

- Formal Participants: **38**
- Informal Participants: **23**
 - Including Alex Rickard representing RPOs/MPOs
- Total Participants: **61**

These are really good numbers for Pilot 2. We're doubling the involvement from Pilot 1.

SDV Pilot 2 Team

- List of SDV P2 Participants in Appendix of training materials
- SDV Pilot Training and Feedback Team
 - **John Farley**, GIS Unit Manager
 - **Cindy McCleary**, Business analyst and SDV training support
 - **John Padgett**, SDV project manager
 - **Sarah Wray**, SDV business and data analyst
 - **Cathy Cole**, SDV Training specialist, SDV SME
 - **Elizabeth Roman**, SDV tool development, testing, design / review and QC of Resource Center, SDV help development
 - **Mike Schoen**, SDV help development, testing and QC
 - **Sean Tucker**, SDV performance analysis and testing

Verify Readiness

- Verify status of participants
 - SDV Pilot 2 configuration on desktop
 - ✓ SDV Pilot 2 configuration installed and loaded successfully?
 - ✓ Functioning well?
 - ✓ Any outstanding help desk tickets?
 - ✓ Any other issues or concerns?



Key Activities and Dates

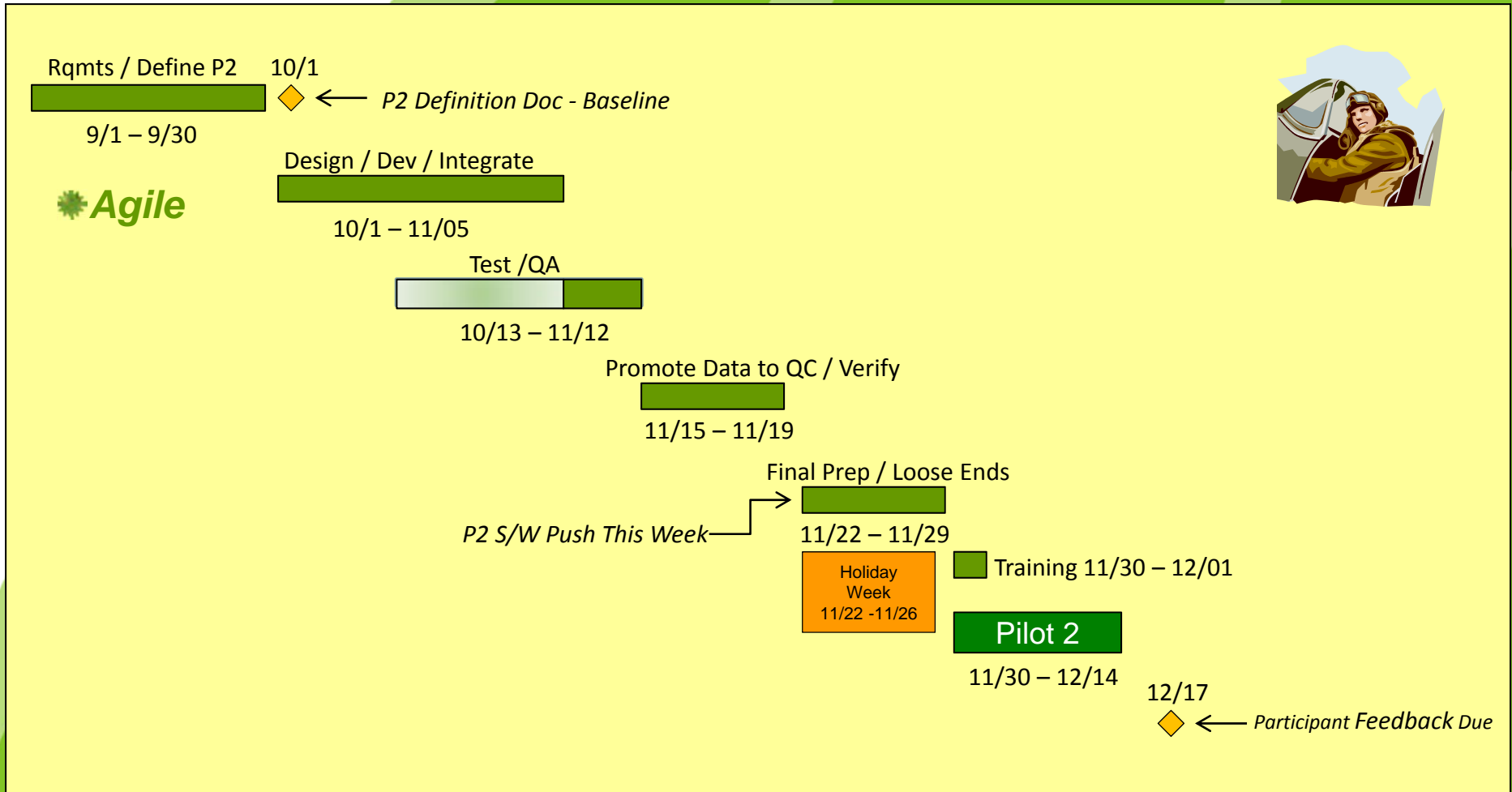
- Outline of key activities and dates
 - Training options 11/30 or 12/1
 - SDV Pilot 2 officially begins TODAY
 - Pilot 2 ends December 14th
 - SDV Pilot 2 configuration will no longer be available as of 12/22
 - Pilot 2 summary presentation to SDV Working Group to be given 1/19/2011
 - SDV 1.0 “Go Live” scheduled for **2/28/2011**

New for Pilot 2

- Identifying an **SDV Focus Group** to provide feedback on ribbon look and feel
 - Will have 7-8 participants review and discuss ribbon design to gain feedback on user preferences
 - Meeting on Tuesday 12/7 from 10:00 a.m. to 11:30 a.m. at NHC (CR 150)
- For SDV Pilot 2, will conduct an **SDV Performance Test** on 12/15, the day after P2 ends
 - Will include 5 experienced SDV users to exercise the system during a 2-hour window
 - Users will be in different locations



Pilot 2 Schedule



Pilot 2 Expectations

- Goal is for formal participants to invest 25-30 hours into SDV Pilot 2
 - Includes training, feedback and related activities
- Communicate with and involve your colleagues in Pilot 2
 - Carry the SDV message



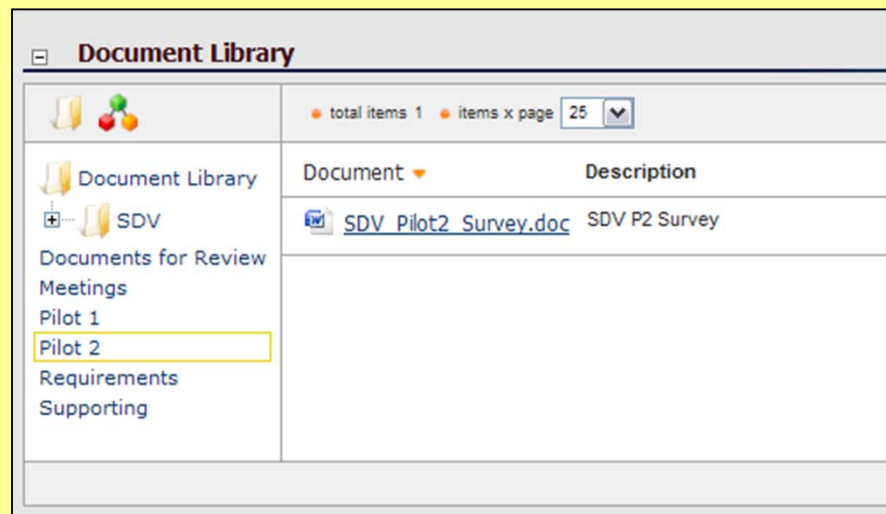
SDV Pilot 2 Feedback

Sarah Wray



SDV Pilot 2: Participant Survey

- SDV Pilot 2 participant survey
 - Where is it?
 - In your handouts today
 - On the SDV portal site document library



SDV Pilot 2: Participant Survey

- SDV Pilot 2 participant survey
 - When is it due?
 - Anytime during the pilot after you have finished your review
 - All surveys must be turned in by **December 17, 2010**
 - Where do I send it?
 - Email to: SDVPilot@ncdot.gov
 - Fax to: 919-707-2210
 - MSC# 1521
 - Cindy McCleary's inbox

SDV Pilot 2 Ongoing Feedback

- Ways to provide ongoing feedback
 - E-Mail address SDVPilot@ncdot.gov
 - Resource Center “Contact Us” form
 - SDV “walk-arounds”
- Focus Group – Ribbon design
 - Specialized group to focus on SDV ribbon configuration
- Kinds of feedback
 - Recommended improvements
 - Any issues found with the data, tools, and resource center
 - System issues
 - Things that work well

Feedback and Questions

To provide comments or suggestions or to ask questions, please complete the form below. When you have finished, click on the "Submit" button.

* Indicates required field.

Name
Email*
Topic of Interest

Comments, Suggestions, Questions*

Analyzing and Summarizing Feedback

- Feedback Summary
 - Collect / consolidate Surveys
 - Collect / consolidate feedback emails
 - Analyze and report to the pilot team and the SDV working group
- Schedule
 - Surveys Due **December 17, 2010**
 - Report to SDV Working group **January 19, 2010**



SDV Pilot 2 Training Presentation



North Carolina Department of Transportation

Geographic Information Systems (GIS)

Training Overview

- Upgrades:
 - We listened to your comments and suggestions from Pilot 1
- Materials:
 - Training PowerPoint
 - Resource material information
 - Your time and expertise
- Three goals for SDV Pilot 2 training:
 - FACILITATE
 - FUNCTIONALITY
 - FEEDBACK

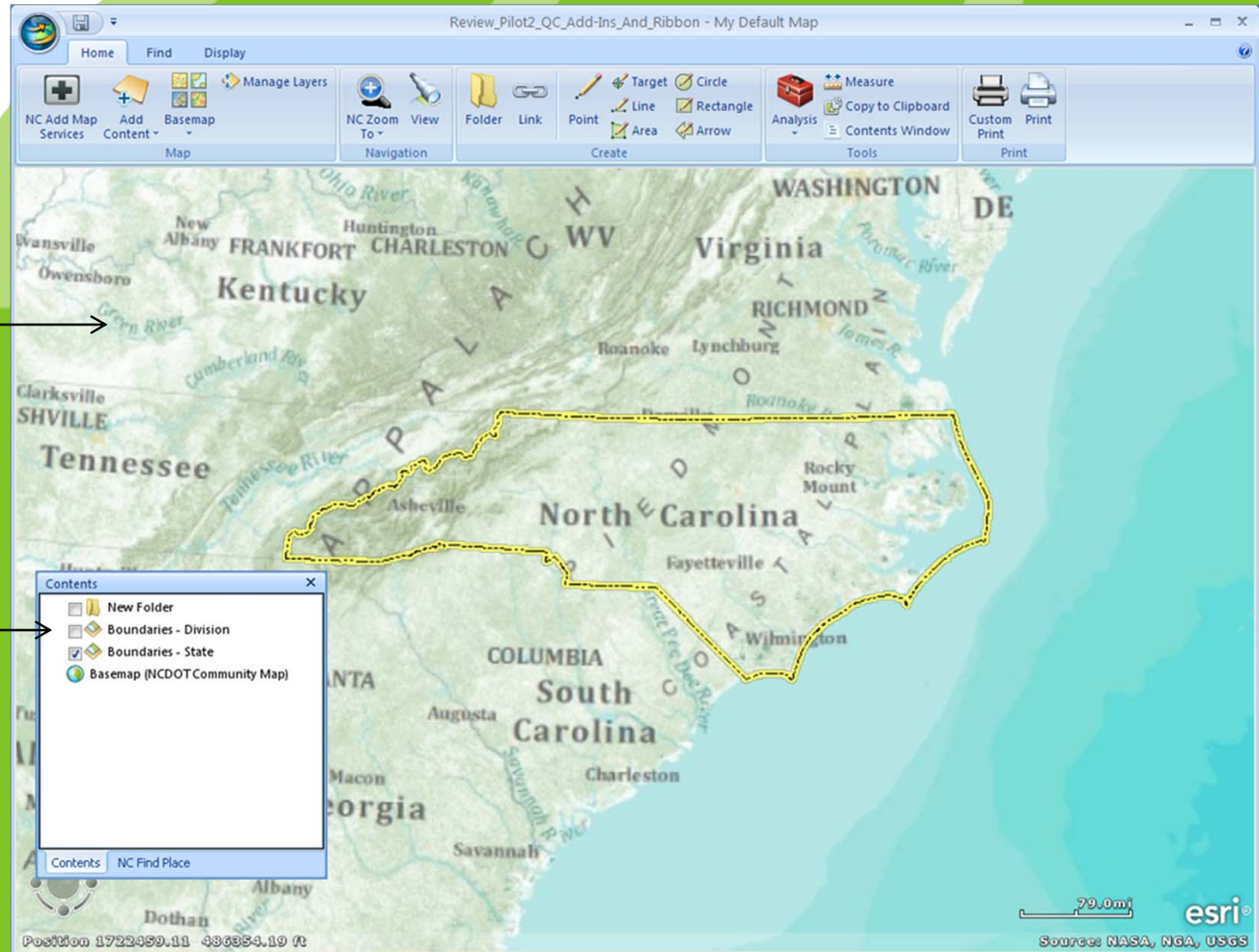
SDV Pilot 2 Training

- SDV Pilot 2 Training Outline
 - Introduction to SDV
 - Display Window
 - Contents Window
 - Ribbons
 - ArcExplorer button
 - Map Groups
 - Tools
 - SDV Resource Center
 - Scenario

SDV Pilot 2 Training

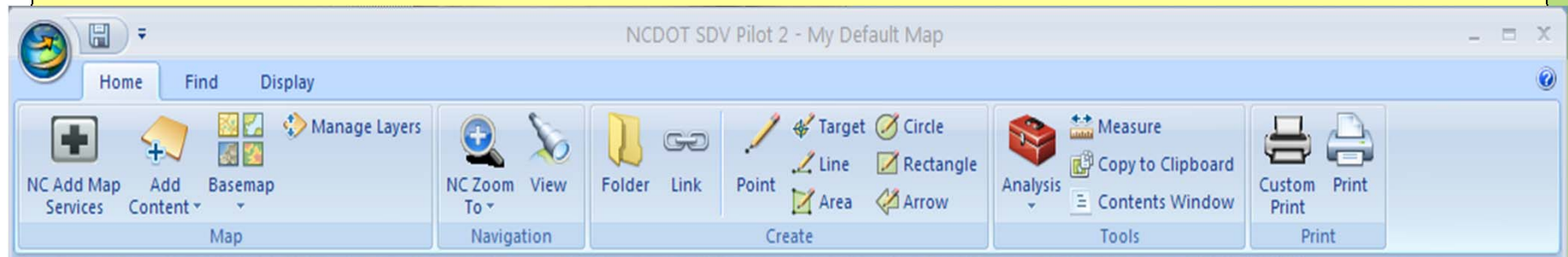
- Display Window

- Contents Window



SDV Pilot 2 Training

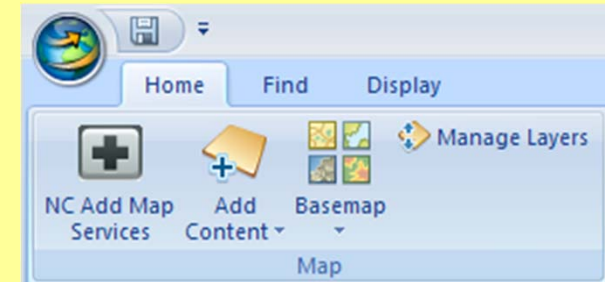
- SDV Ribbon



SDV Pilot 2 Training

SDV Pilot 2 Tabs

- **Home Tab**
- **Map Group**
 - ❖ NC Add Map Services
 - » Add SDV map services to the Contents Window
 - Add Content
 - » ArcGIS online, layers, Map Content files, KML files, GIS Services, shapefiles, raster data, Geodatabase, text files, GPS data, Image overlays
 - Basemap
 - » NCDOT, ESRI's World Topo, Bing, My Basemap
 - Manage Layers
 - » Change layer position, remove, clear cache



SDV Pilot 2 Training

NC Add Map Services - 45

NC Add Map Services

- AADT Linear Segments
- AADT Count Stations
- Airports
- Bike Routes
- Boundaries - City
- Boundaries - County Filled
- Boundaries - County Outlined
- Boundaries - County Shoreline
- Boundaries - District
- Boundaries - Division
- Boundaries - MPO & RPO
- Boundaries - State
- Boundaries - Urban Areas
- Bridges
- Emergency Operations Centers
- Ferry Routes
- Functional Class
- Geodetic control points
- HQR - HQW, ORW and SA (High quality water sources)
- HQR - NCCrews (Division of Coastal Management)
- HQR - NHEO (Natural Heritage Element Occurrences)
- HQR - NWI (National Wetland Inventory)
- HQR - Water Supply Watersheds
- HQR - Wetlands (Division of Coastal Management)
- Historic Properties
- Hospital Locations
- Hurricane Evacuation Routes
- IRI (International Roughness Index)
- NC Place Names
- NCMIN Tiers (NC Multi Modal Investment Network)
- NHS (National Highway System)
- Pavement Condition
- Potential Emergency Shelters
- Rails
- Rest Areas
- Road Characteristics
- STIP - Bridges
- STIP - Roads
- Schools
- State Maintained Roads
- Streams Lines (Hydro 24k)
- Streams Polys (Hydro 24k)
- Truck Routes
- USGS DRG 24K Quad Index
- Unpaved roads

Basemaps

Basemap

Manage Layers

NC Zoom To

View

Folder

Link

Target

Circle

Line

Rectangle

Area

Arrow

Analysis

Mea

Cop

Con

NCDOT Basemaps

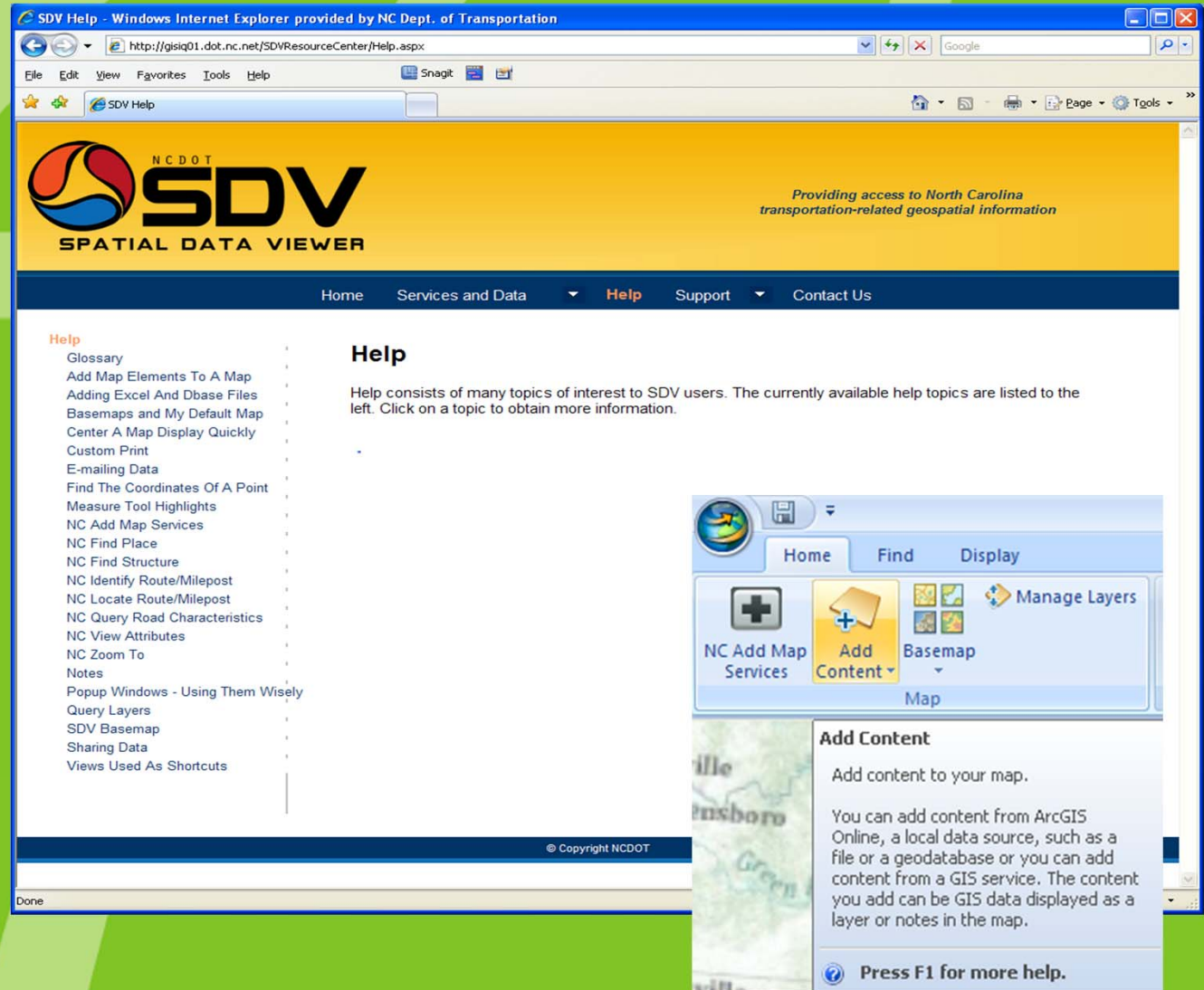
| | | | |
|---------------------|----------------------|-----------------------|----------------|
| | | | |
| NCDOT Community Map | World Imagery (ESRI) | | |
| | | | |
| Bing Maps Aerial | Bing Maps Hybrid | Bing Maps Road | World Imagery |
| | | | |
| World Topography | World Streets | Boundaries and Places | World Physical |
| | | | |
| OpenStreetMap | World Terrain | | |

SDV Pilot 2 Resource Center



SDV Help

- ❖ SDV Resource Center
- Hover over tool for description
- ? Icon on ribbon
- F1 button



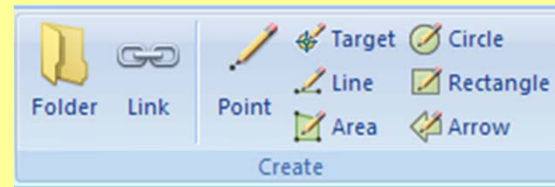
SDV Pilot 2 Training

- **Home Tab**
- **Navigation Group**
 - ❖ **NC Zoom To**
 - State, Division, County, City, Community, Street
 - **View**
 - Create a view of map to return to
- **SDV Resource Center**
<http://gisig01.dot.nc.net/SDVResourceCenter/Glossary.aspx>



SDV Pilot 2 Training

- **Home Tab**
- **Create Group**



- Folder
- Link
- Point
- Target
- Line
- Circle
- Rectangle
- Area

- SDV Resource Center

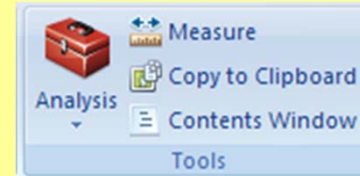
<http://gisq01.dot.nc.net/SDVResourceCenter/Notes.aspx>

SDV Pilot 2 Training

- **Home Tab**

- **Tools Group**

- Analysis
 - Measure
 - Copy to Clipboard
 - Contents Window

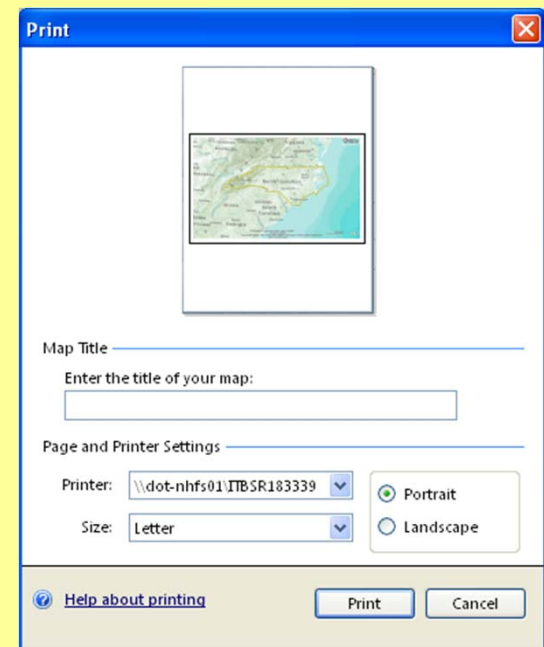
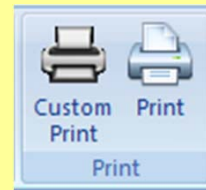
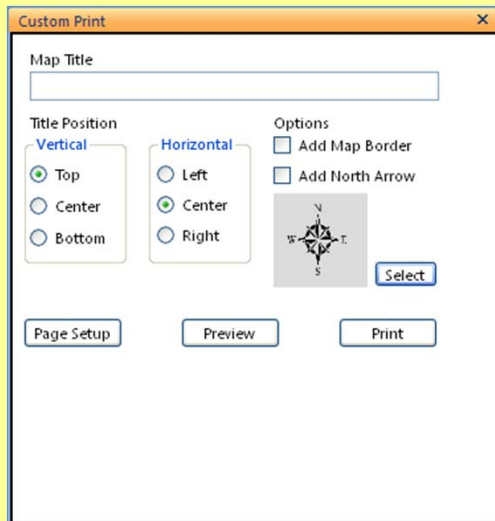


- SDV Resource Center

<http://gisig01.dot.nc.net/SDVResourceCenter/MeasureToolHighlights.aspx>

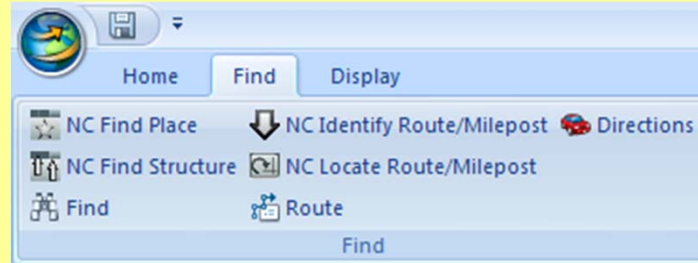
SDV Pilot 2 Training

- **Home Tab**
 - **Print Group**
 - ❖ Custom Print
 - Map title, border, North Arrow
 - Print
 - Map title, printer, size, orientation

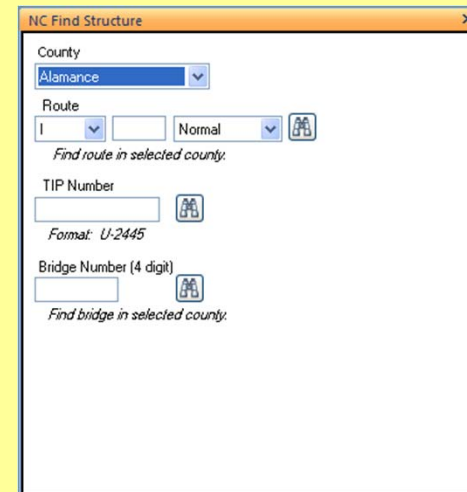
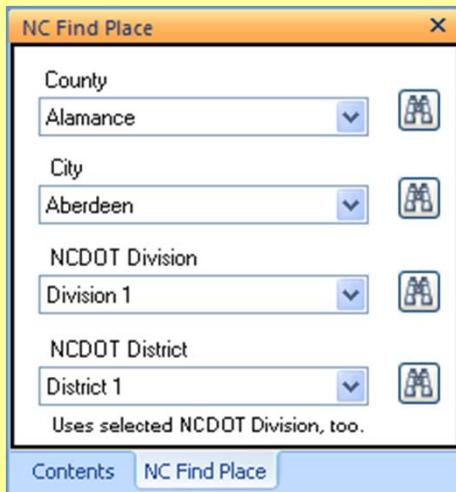


SDV Pilot 2 Training

- **Find Tab**
 - **Find Group**



- NC Find Place
 - County, City, NCDOT Division, NCDOT District
- NC Find Structure
 - County, Route, TIP Number, Bridge Number



SDV Pilot 2 Training



- **Find Tab**

- **Find Group** continued

- Find

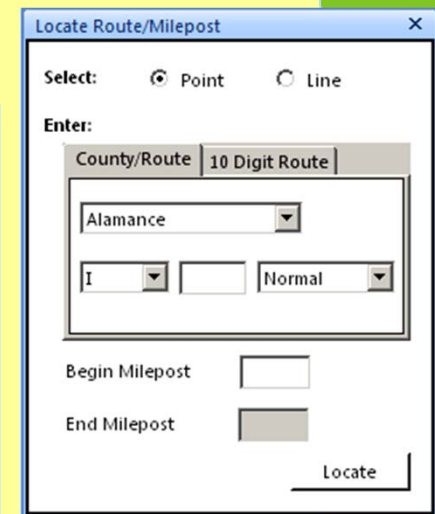
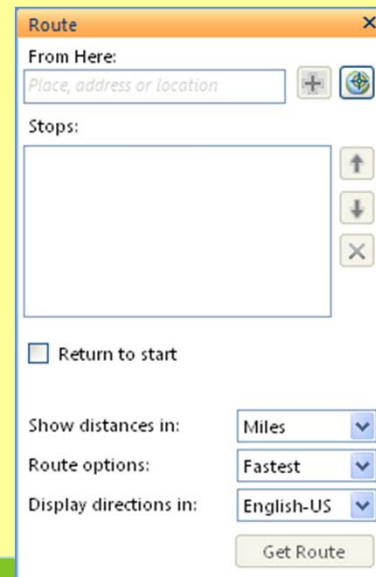
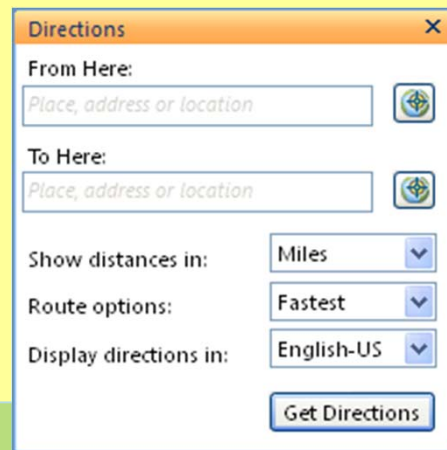
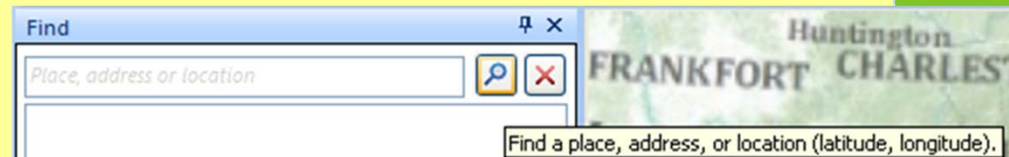
- ❖ NC Identify Route/Milepost

- provides a mechanism to identify a route and its milepost information at a specified point

- ❖ NC Locate Route/Milepost

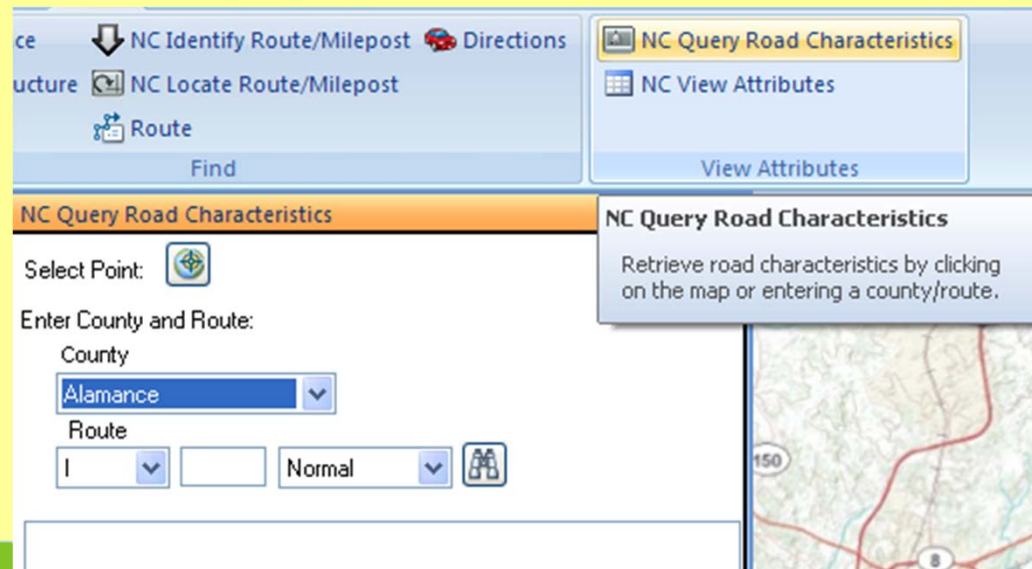
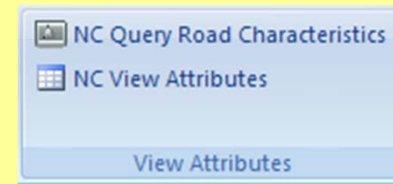
- Route

- Directions



SDV Pilot 2 Training

- **Find Tab**
 - **View Attributes Group**
 - NC Query Road Characteristics
 - Retrieve road characteristics
 - ❖ NC View Attributes
 - View feature layer attributes

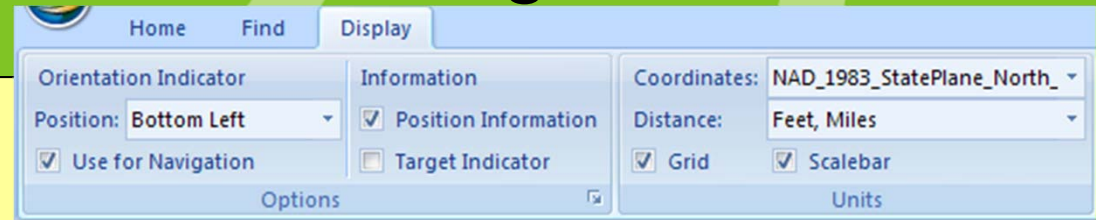


SDV Pilot 2 Training

- **Display Tab**

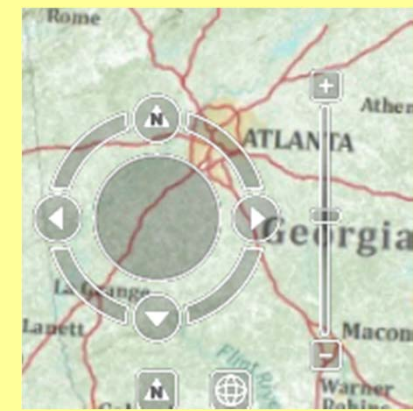
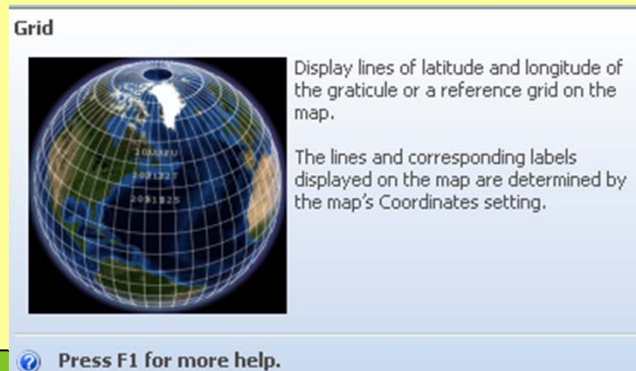
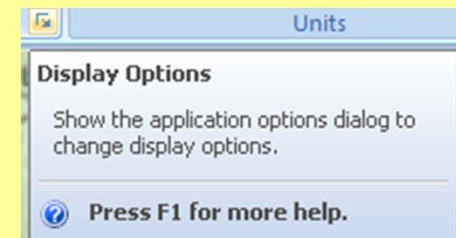
- **Options Group**

- Orients the zoom/pan tool to move around the Display Window



- **Units Group**

- Select coordinate system, units of measurement
 - Select Grid, Scalebar



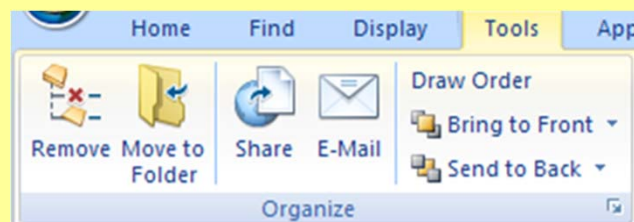
SDV Pilot 2 Training

- **Tools Tab**

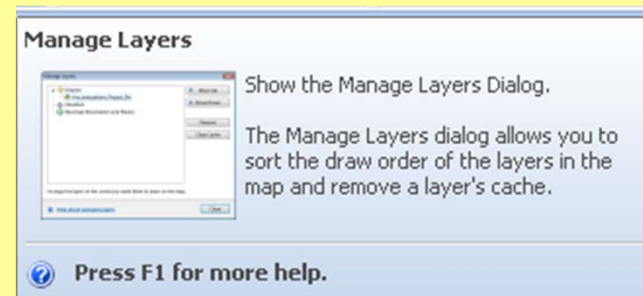
- Visible when Layers or Notes are selected in Contents Window

- **Organize Group**

- Remove
- Move to Folder
- Share
- E-Mail
- Draw Order



- Bring to Front, Send to Back

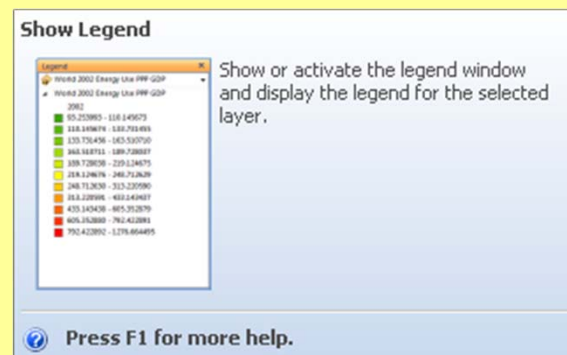


SDV Pilot 2 Training

- **Tools Tab**

- **View Group**

- Go To
 - Zooms to selected content layer
 - Set Default View
 - Bookmarks the map
 - Show Legend
 - Shows features of selected content layer

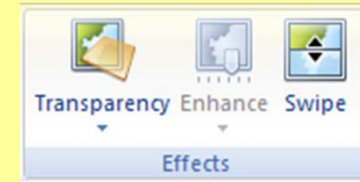


SDV Pilot 2 Training

- **Tools Tab**

- **Effects Group**

- Transparency
 - For selected layer
 - Enhance
 - For image
 - Swipe
 - For selected layer



Transparency

Change the transparency of the selected item(s) to allow you to see more or less of the underlying data.

Move the slider bar to adjust the transparency; the higher the percentage, the more transparent the item.

 Press F1 for more help.

Enhance

Change brightness, contrast and Gamma correction of imagery data.

Swipe

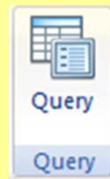
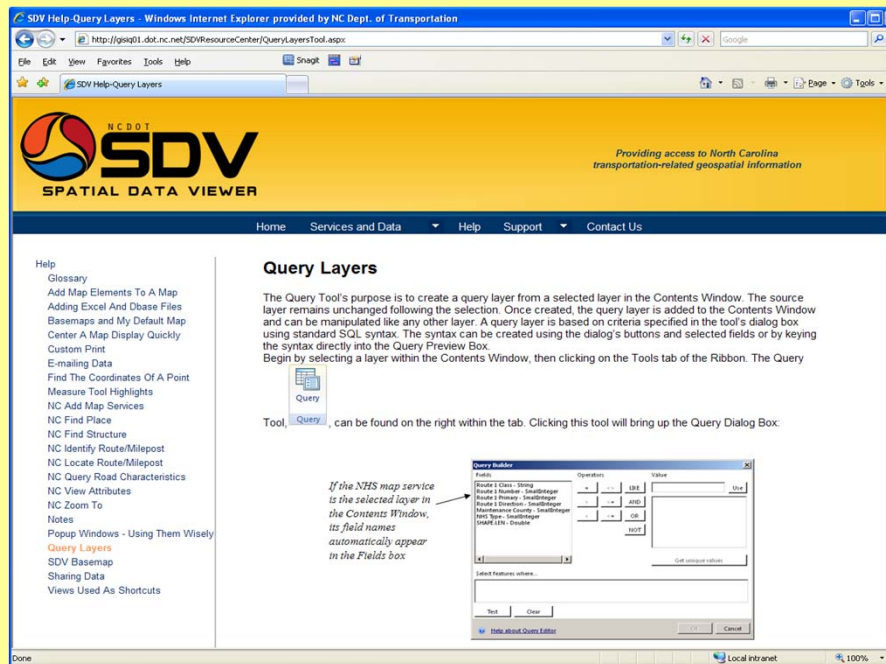
Use your mouse to pull back the selected item(s) on the map to reveal what's underneath.

SDV Pilot 2 Training

- **ToolsTab**

- **Query Group**

- To query a selected layer from the Contents Window
 - Access SDV Resource Center for Help

SDV Help-Query Layers

Providing access to North Carolina transportation-related geospatial information

Home Services and Data Help Support Contact Us

Help

- Glossary
- Add Map Elements To A Map
- Adding Excel And Dbase Files
- Basemaps and My Default Map
- Center A Map Display Quickly
- Custom Print
- E-mailing Data
- Find The Coordinates Of A Point
- Measure Tool Highlights
- NC Add Map Services
- NC Find Place
- NC Find Structure
- NC Identify Route/Milepost
- NC Locate Route/Milepost
- NC Query Road Characteristics
- NC View Attributes
- NC Zoom To
- Notes
- PopUp Windows - Using Them Wisely
- Query Layers**
- SDV Basemap
- Sharing Data
- Views Used As Shortcuts

Query Layers

The Query Tool's purpose is to create a query layer from a selected layer in the Contents Window. The source layer remains unchanged following the selection. Once created, the query layer is added to the Contents Window and can be manipulated like any other layer. A query layer is based on criteria specified in the tool's dialog box using standard SQL syntax. The syntax can be created using the dialog's buttons and selected fields or by keying the syntax directly into the Query Preview Box. Begin by selecting a layer within the Contents Window, then clicking on the Tools tab of the Ribbon. The Query

Query Builder

| Fields | Operators | Value |
|---------------------------|-----------|-------|
| Route Class - String | = | |
| Route Number - Integer | = | |
| Route Primary - Integer | = | |
| Route Secondary - Integer | = | |
| Route Type - Integer | = | |
| SHAPE LIDT - Double | = | |

Select Features where:

Text Clear

Help About Query Editor

If the NTS map service is the selected layer in the Contents Window, its field names automatically appear in the Fields box

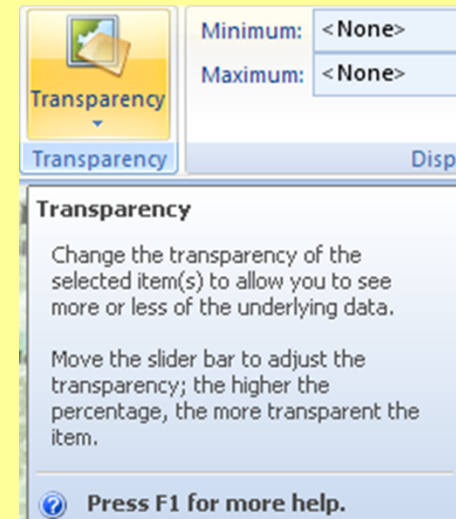
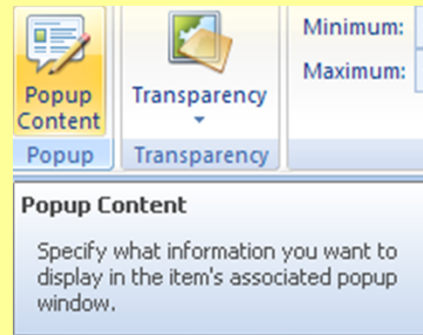
SDV Pilot 2 Training

- **Appearance Tab**

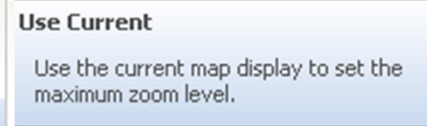
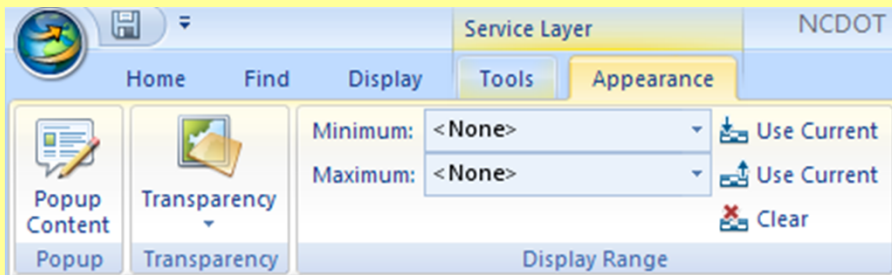
- **Popup Group**

- Provides information about item selected

- **Transparency Group**

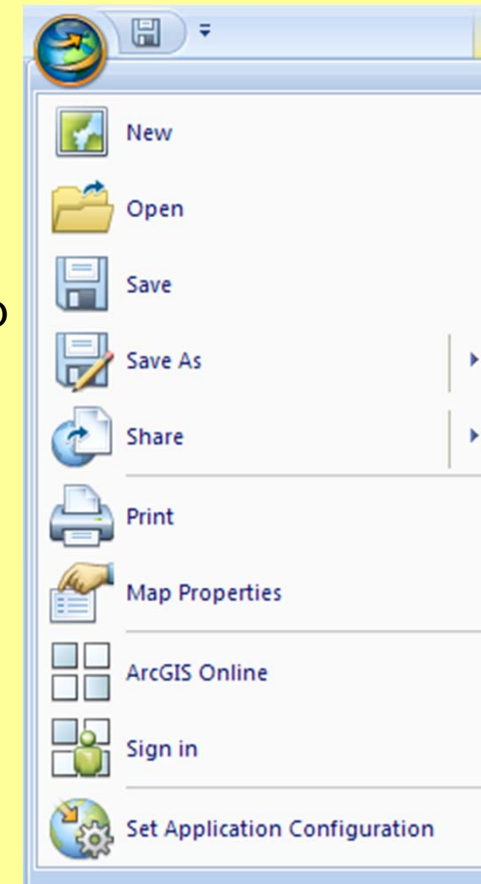


- **Display Range Group**



SDV Pilot 2 Training

- ArcGIS Explorer Button
 - New
 - Open
 - Save
 - Save As
 - ArcExplorer Map, My Default Map, New Basemap
 - Share
 - Upload ArcGIS Online, E-mail map, E-mail view
 - Print



SDV Pilot 2 Training

FACILITATE

- Measure
- Access NC and NCDOT data
- Share information

FUNCTIONALITY

- More NC map services
- More NC tools
- SDV Resource Center

FEEDBACK

- Your feedback is critical

SDV Pilot 2 Training

Collapsed Bridge Scenario

November 30, December 1, 2010



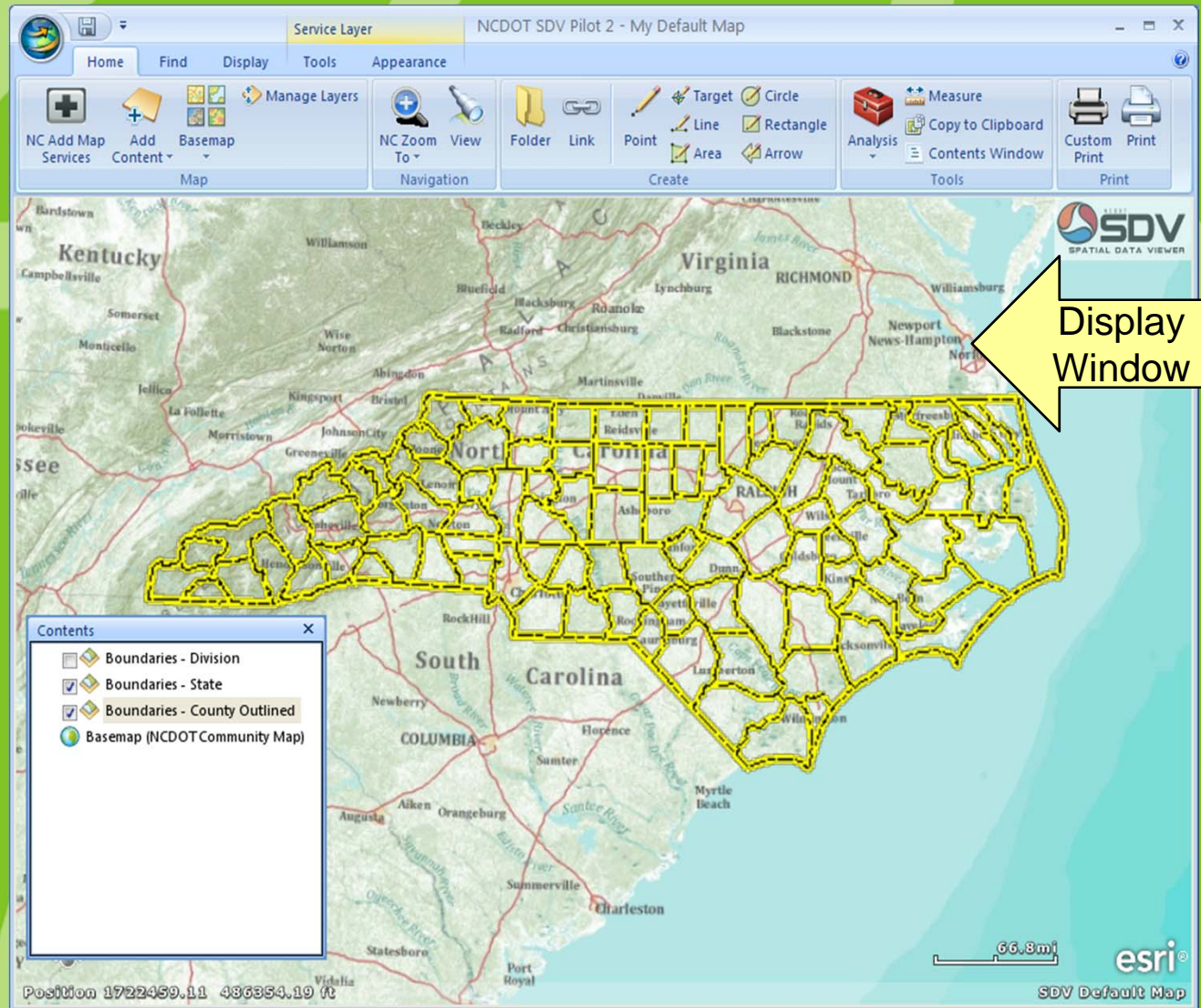
SDV Pilot 2 Training



- **Collapsed Bridge Scenario**
 - Change coordinate system to NC State Plane Feet
 - Add Map Services
 - SDV Resource Center
 - NC Find Tools
 - Query Tools
 - Zoom to incident area (mouse, NC Zoom, navigation tool)
 - Change Basemaps
 - Find road, bridge characteristics of incident
 - View attributes of collapsed section
 - Create note for area in question
 - Email the map
 - Add external data to the map
 - Measure area around collapsed bridge, distance to alternate route
 - Add North Arrow, Print Map

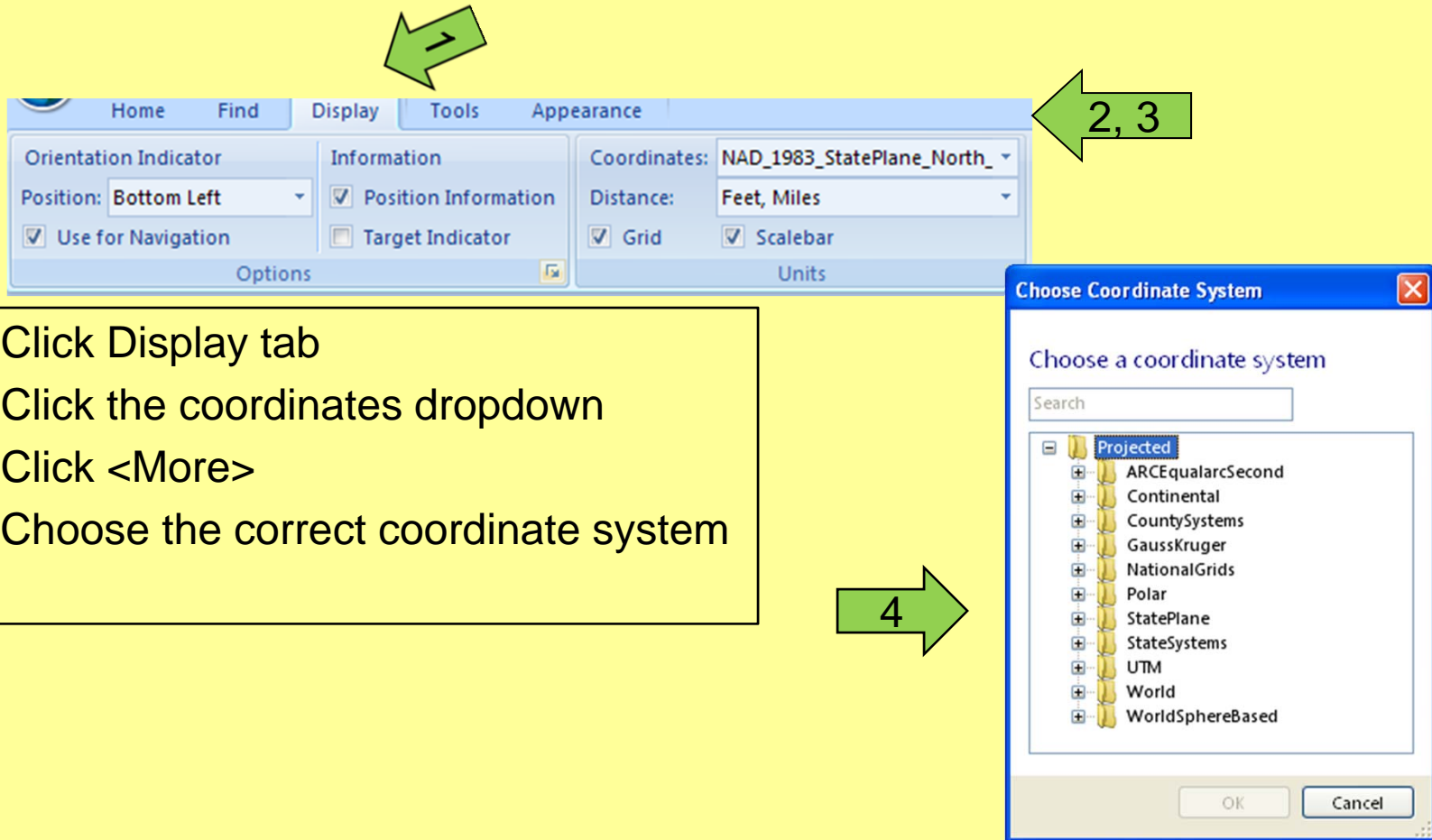
SDV Pilot 2 Training

- Open SDV
- Add NC Map Service
- Select layer



SDV Pilot 2 Training

To change the map coordinate system:



1. Click Display tab

2. Click the coordinates dropdown

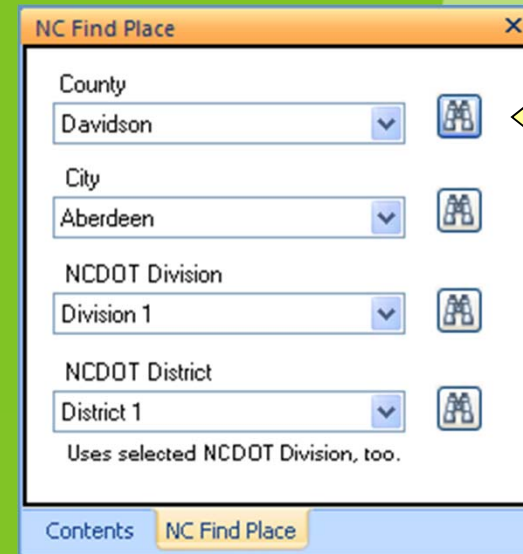
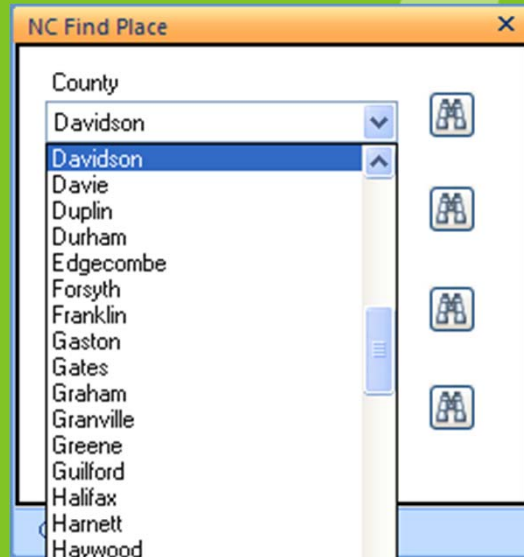
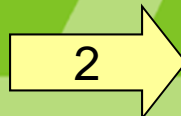
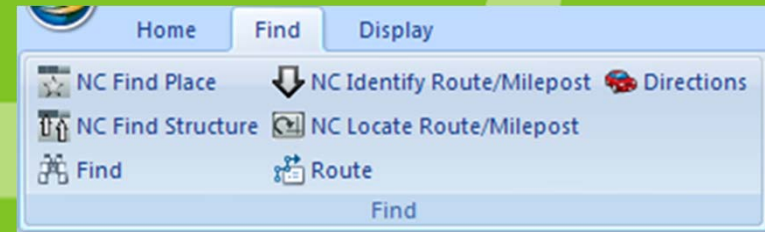
3. Click <More>

4. Choose the correct coordinate system

SDV Pilot 2 Training

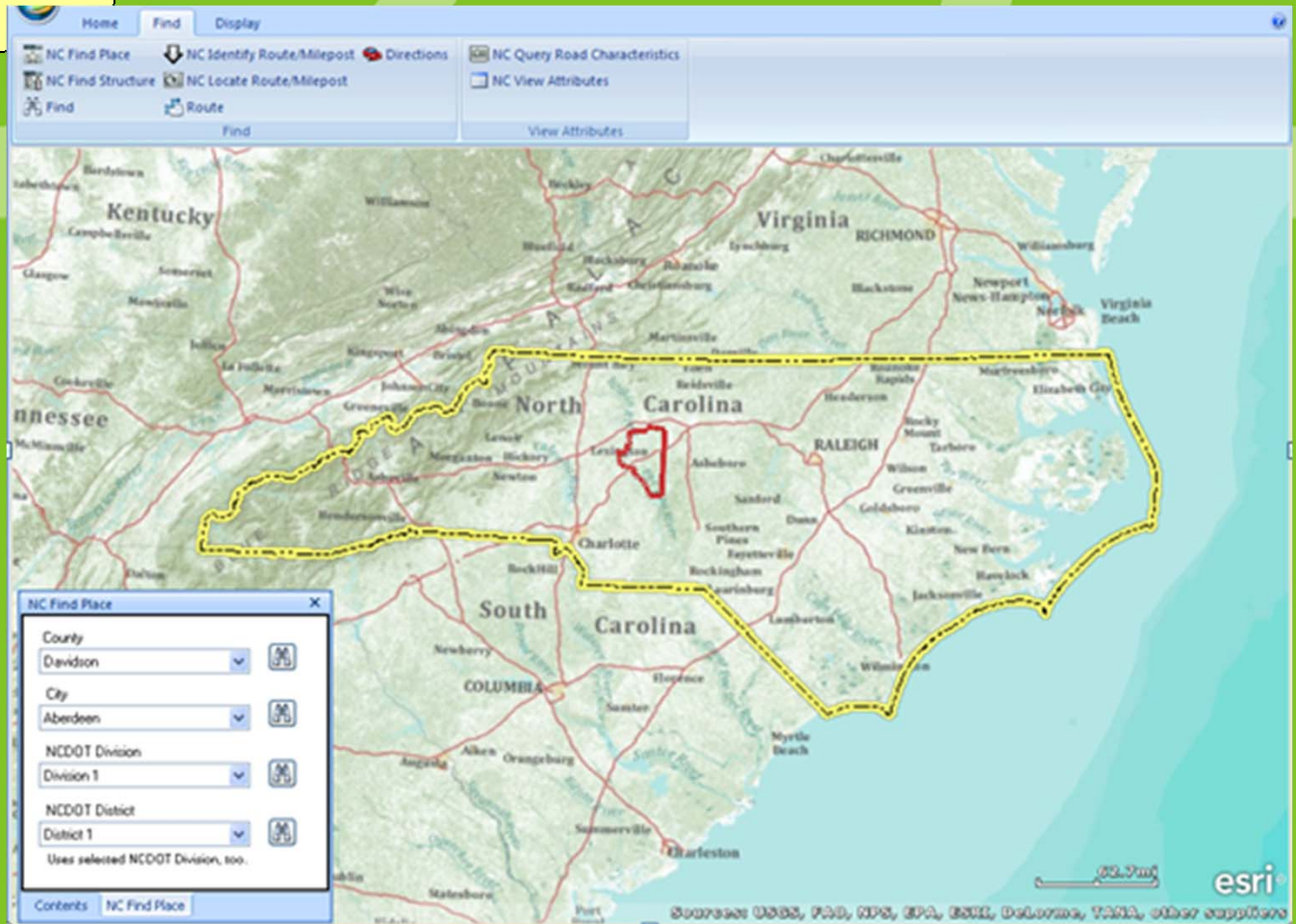
Find Davidson County

1. Click Find tab
2. Click NC Find Place
3. From the County drop down list choose Davidson County
4. Click the search button

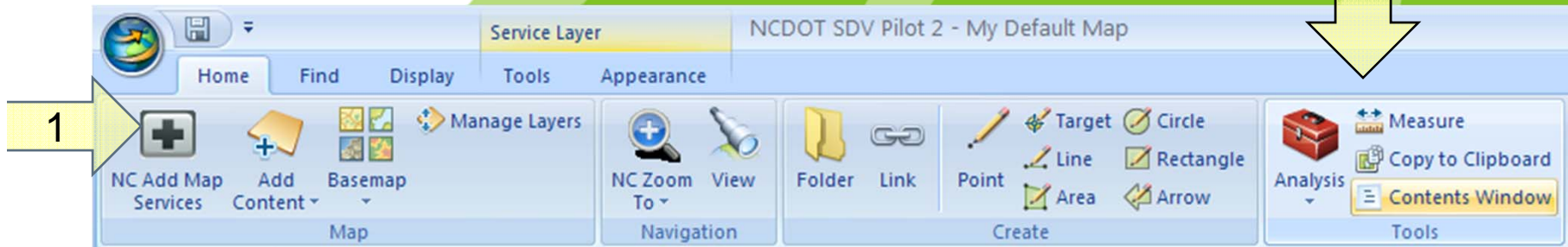


SDV Pilot 2 Training

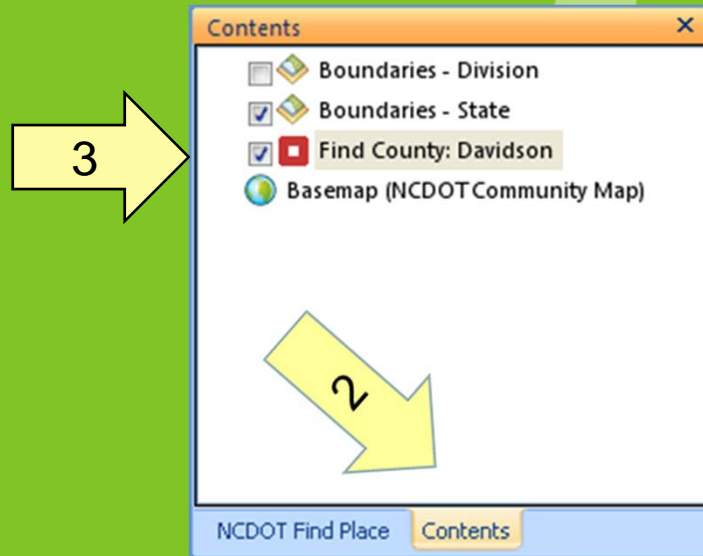
- County is located, now zoom in



SDV Pilot 2 Training

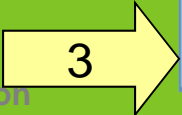
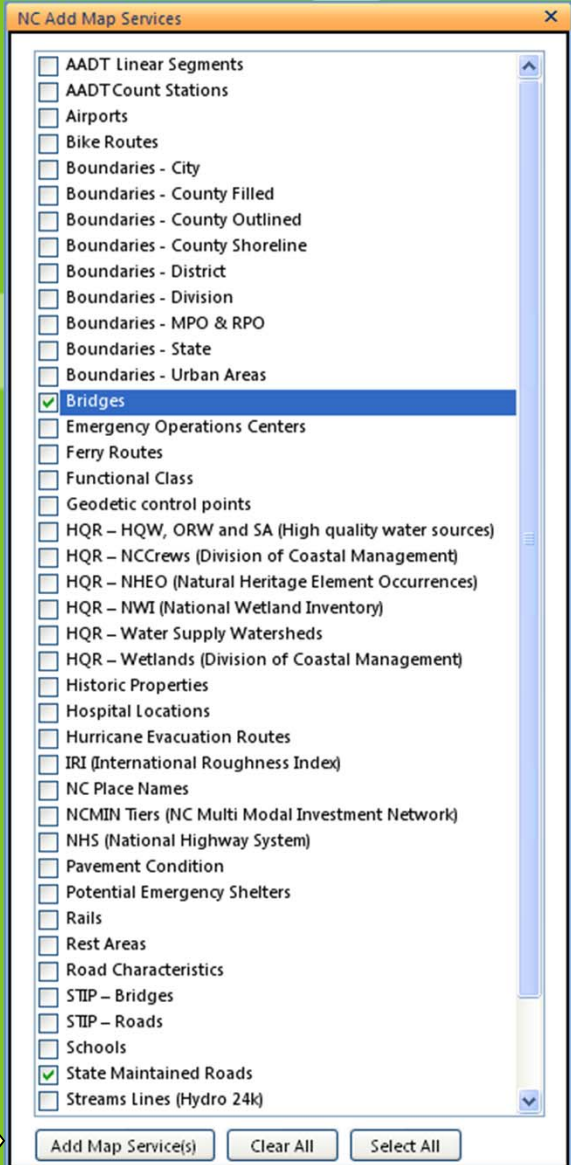
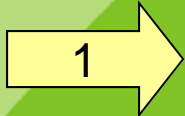


1. Click Home tab
2. Click Contents Window (there are 2 ways to get there)
3. Check the Find County: Davidson option box
4. Right click on Find County: Davidson
5. Click "Go to"
6. Or Double Click Find County: Davidson
7. SDV zooms in to county



SDV Pilot 2 Training

1. NC Add Map Services
2. Click box for layers of interest
3. Click Add Map Service(s) button
4. Click the map service checkbox in the Contents Window (con't on next slide)



SDV Pilot 2 Training

The screenshot shows the SDV Spatial Data Viewer interface. The title bar reads "Service Layer NCDOT SDV Pilot 2 - My Default Map". The menu bar includes Home, Find, Display, Tools, and Appearance. The toolbar contains various icons for map manipulation, including zoom, pan, and drawing tools. The main map area displays a geographic view of North Carolina counties, with several counties outlined in red. A "Contents" panel is open in the bottom-left corner, listing the following layers:

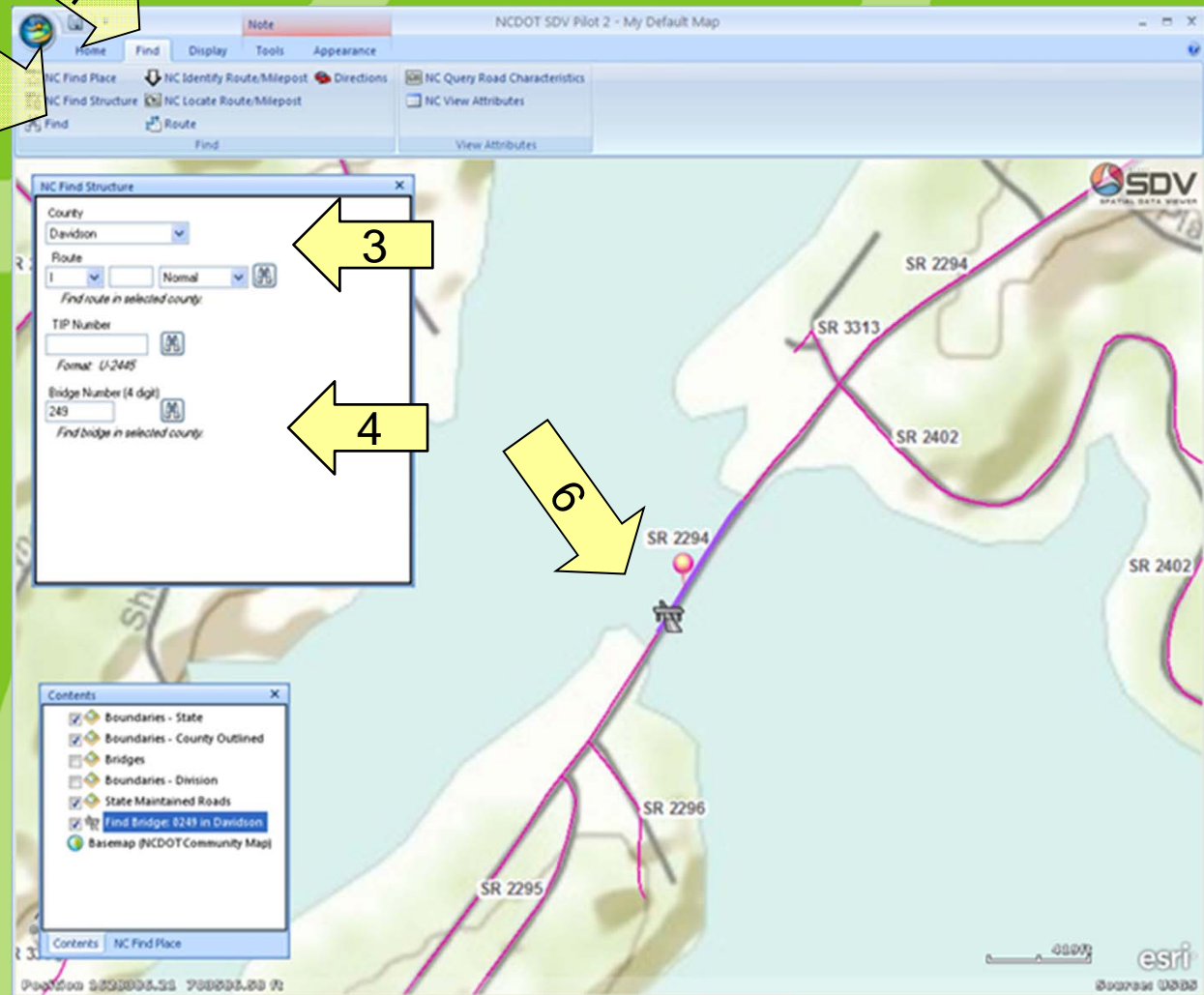
- Boundaries - Division
- Boundaries - State
- Boundaries - County Outlined
- Find County: Davidson
- Bridges
- State Maintained Roads
- Basemap (NCDOT Community Map)

A yellow arrow with the number "4" points to the "Contents" panel. The status bar at the bottom shows the position: "Position 1593759.33 - 739392.63 ft".

4

SDV Pilot 2 Training

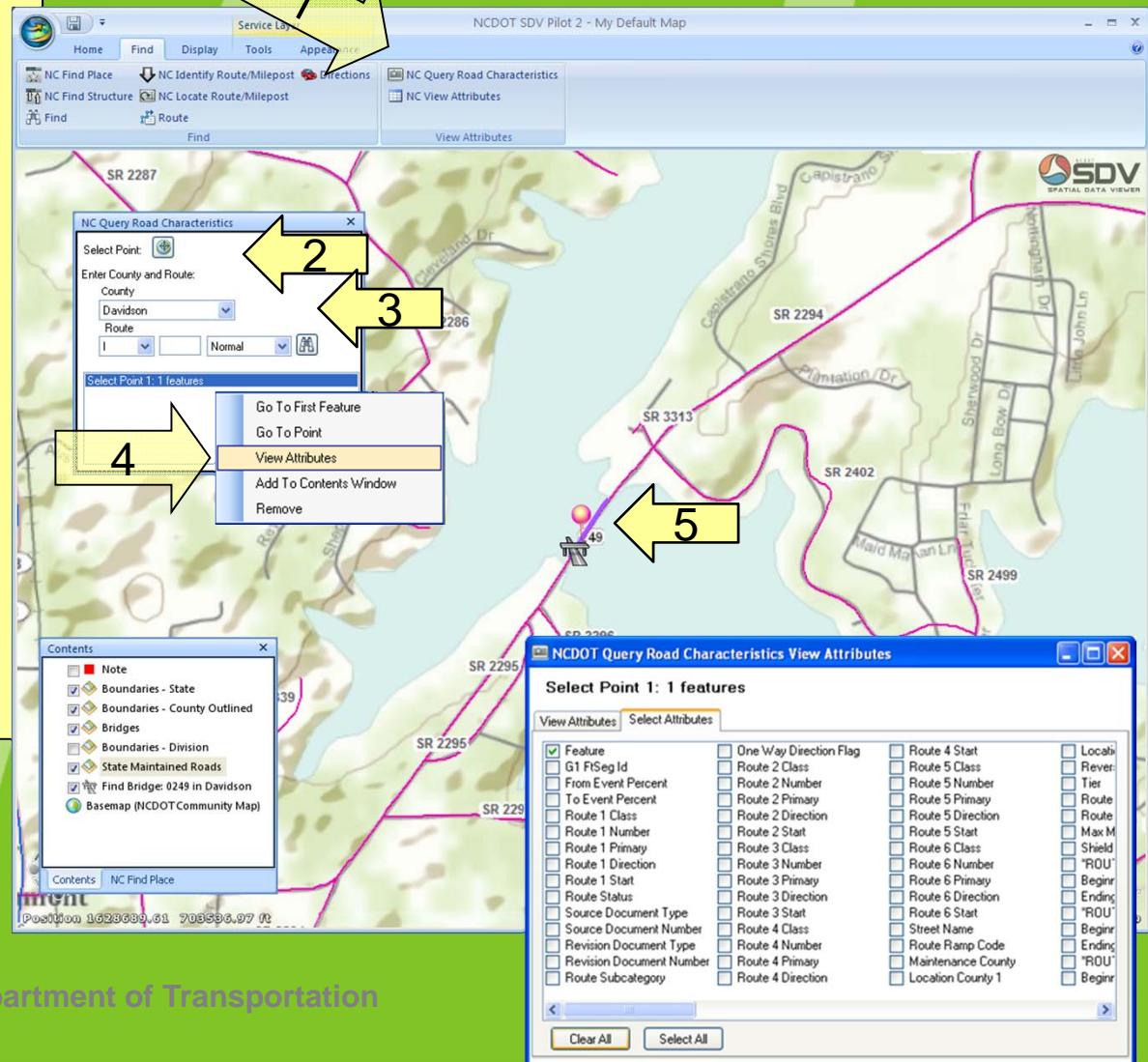
1. Click Find Tab
2. NC Find Structure
3. Enter County
4. Enter Bridge Number
5. Click Find symbol
6. Point is symbolized on map
7. Double Click to zoom to result



SDV Pilot 2 Training

View Road Attributes

1. Click NC Query Road Characteristics
2. Select Point
3. Enter Davidson
4. Click on Road where bridge collapsed
5. When feature is selected, right click feature, View Attributes



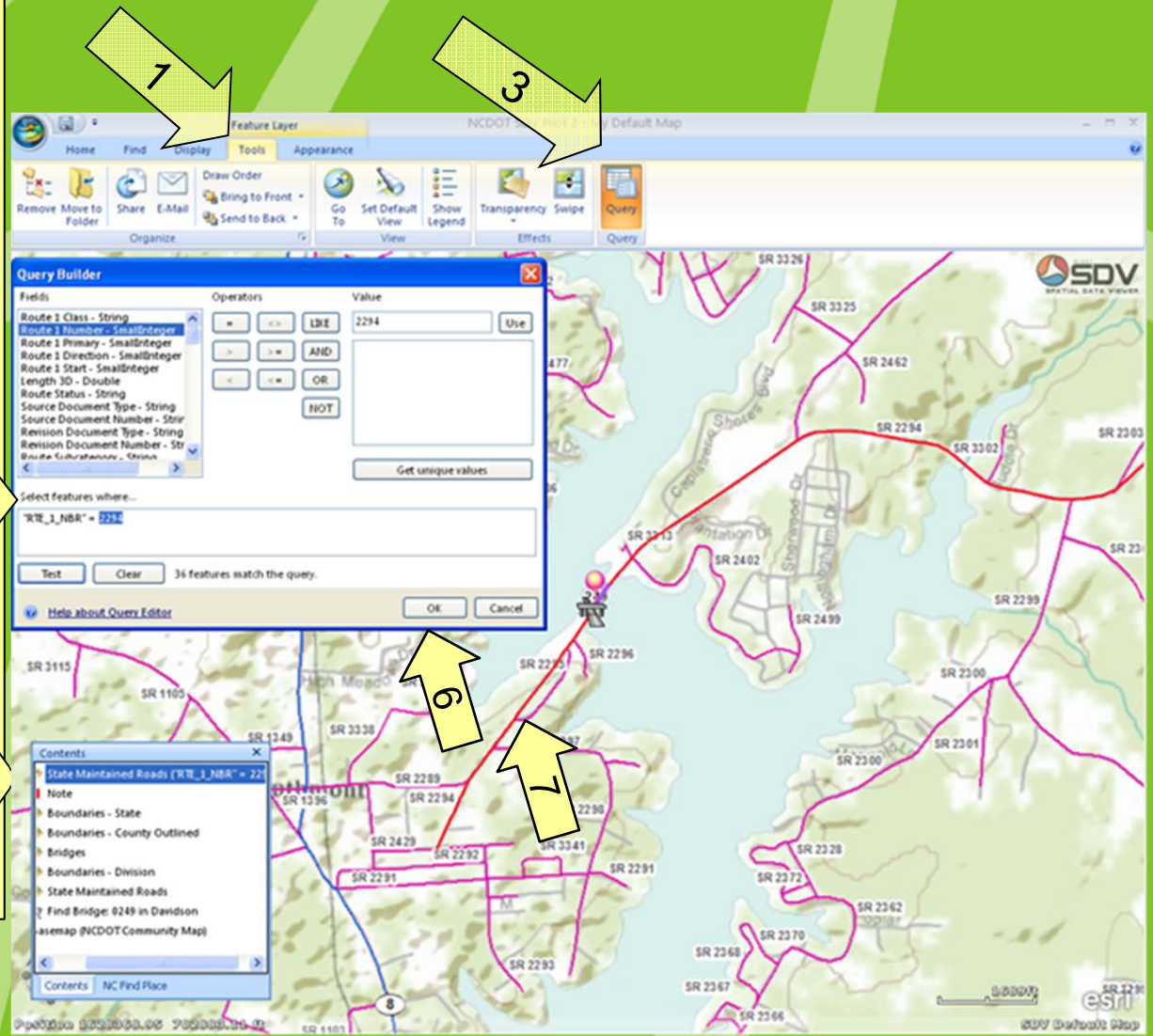
The screenshot shows the SDV Pilot 2 interface with the following elements:

- Toolbar:** Contains icons for 'NC Find Place', 'NC Identify Route/Milepost', 'Directions', 'NC Query Road Characteristics', 'NC Find Structure', 'NC Locate Route/Milepost', and 'NC View Attributes'.
- NC Query Road Characteristics Dialog:** Shows 'Select Point' selected, 'County' set to 'Davidson', and 'Route' set to '1'. A context menu is open over the map with 'View Attributes' highlighted.
- Contents Window:** Lists layers such as 'Boundaries - State', 'Boundaries - County Outlined', 'Bridges', 'Boundaries - Division', 'State Maintained Roads', 'Find Bridge: 0249 in Davidson', and 'Basemap (NCDOT Community Map)'.
- View Attributes Window:** Displays a list of attributes for 'Select Point 1: 1 features', including 'Feature', 'G1 F1Seg Id', 'From Event Percent', 'To Event Percent', 'Route 1 Class', 'Route 1 Number', 'Route 1 Primary', 'Route 1 Direction', 'Route 1 Start', 'Route Status', 'Source Document Type', 'Revision Document Type', 'Route 1 Subcategory', 'One Way Direction Flag', 'Route 2 Class', 'Route 2 Number', 'Route 2 Primary', 'Route 2 Direction', 'Route 2 Start', 'Route 3 Class', 'Route 3 Number', 'Route 3 Primary', 'Route 3 Direction', 'Route 3 Start', 'Route 4 Class', 'Route 4 Number', 'Route 4 Primary', 'Route 4 Direction', 'Route 4 Start', 'Route 5 Class', 'Route 5 Number', 'Route 5 Primary', 'Route 5 Direction', 'Route 5 Start', 'Route 6 Class', 'Route 6 Number', 'Route 6 Primary', 'Route 6 Direction', 'Route 6 Start', 'Street Name', 'Route Ramp Code', 'Maintenance County', 'Location County 1', 'Locali', 'Rever:', 'Tier', 'Route', 'Route', 'Max M', 'Shield', 'Beginn', 'Ending', 'Beginn', 'Ending', 'Beginn', 'Ending', 'Beginn'.

SDV Pilot 2 Training

To Query

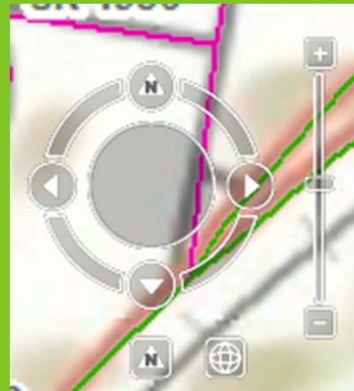
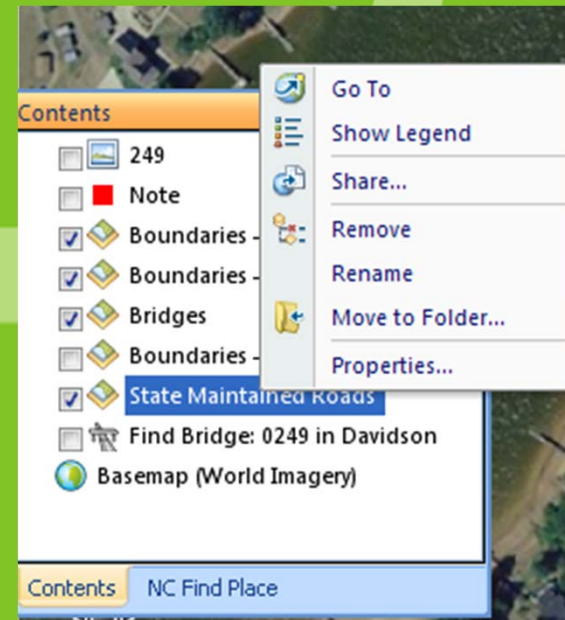
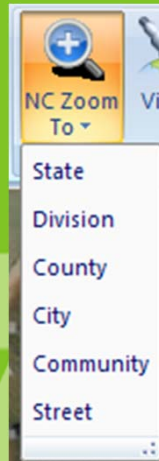
1. Click Tools Tab
2. Click layer from Contents Window
3. Click Query
4. Click field, operator, and value
5. Click Test
6. Click OK
7. Notice symbology change



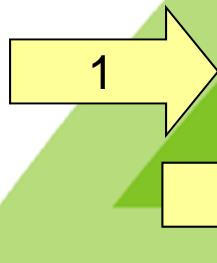
SDV Pilot 2 Training

Zoom Tools

1. NC Zoom To Street
2. Mouse -Scroll
3. Go To option
4. Orientation Indicator

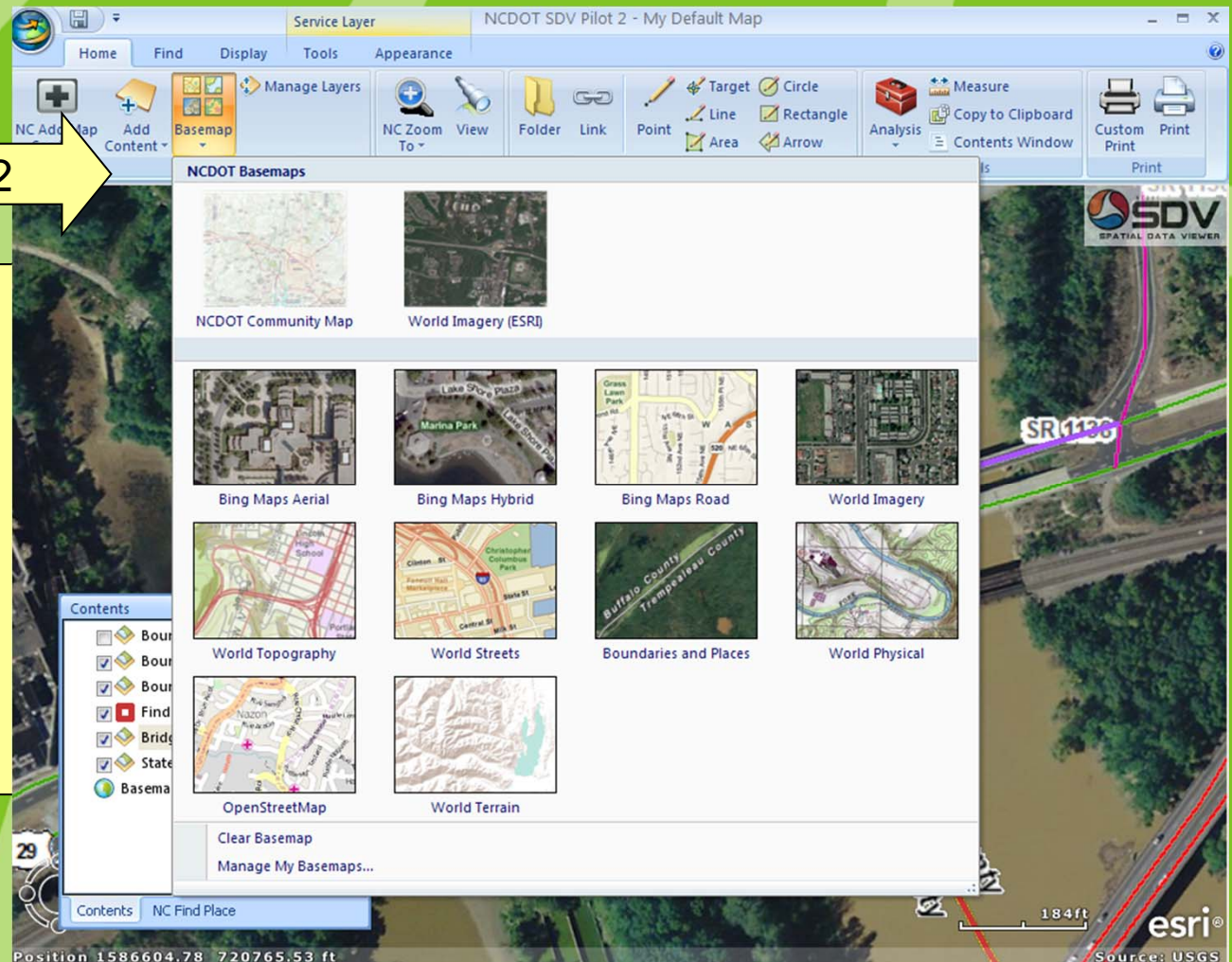


SDV Pilot 2 Training

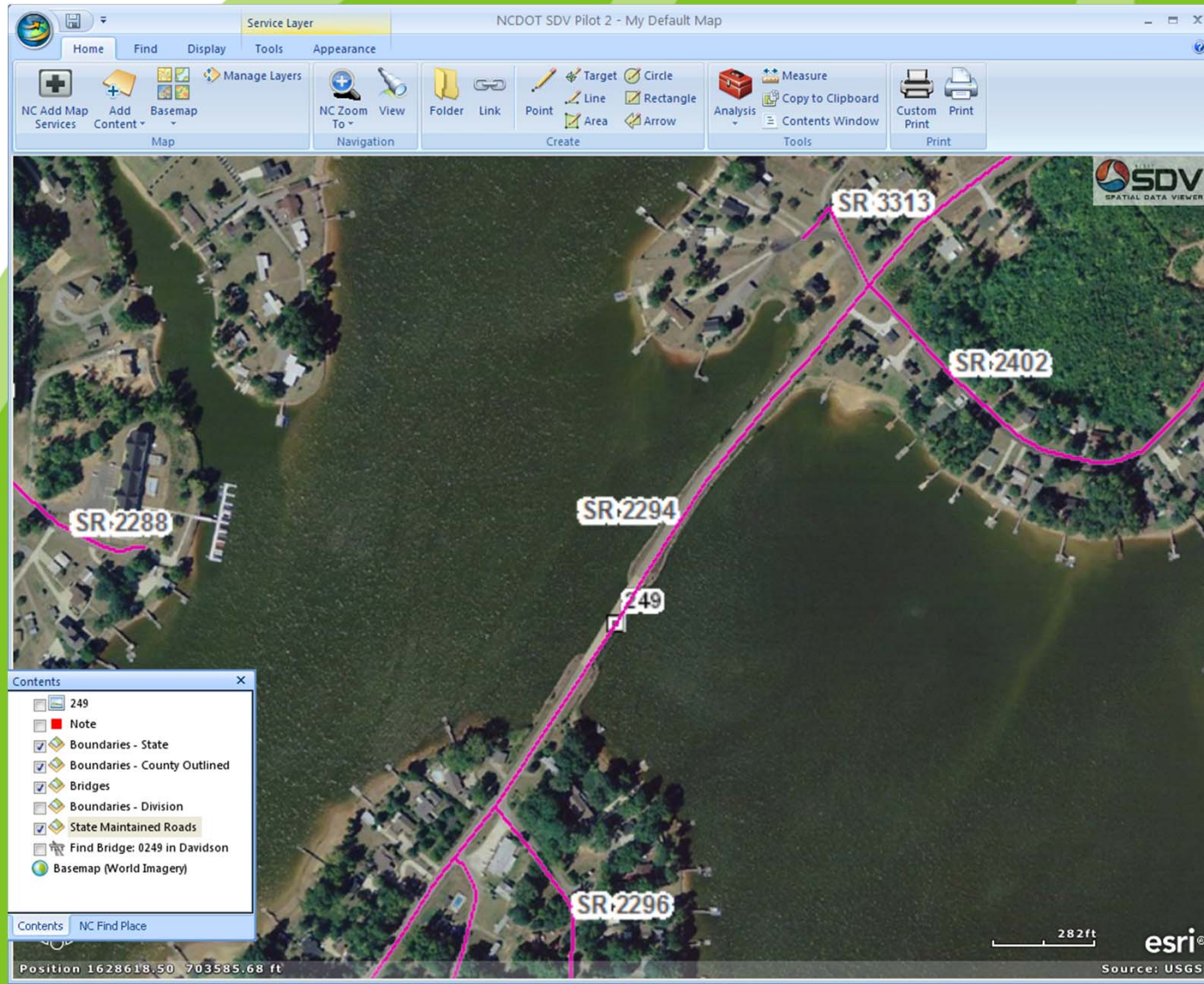


Change Basemap

1. Click Home tab
2. Click Basemap button
3. Click ESRI World Imagery



SDV Pilot 2 Training

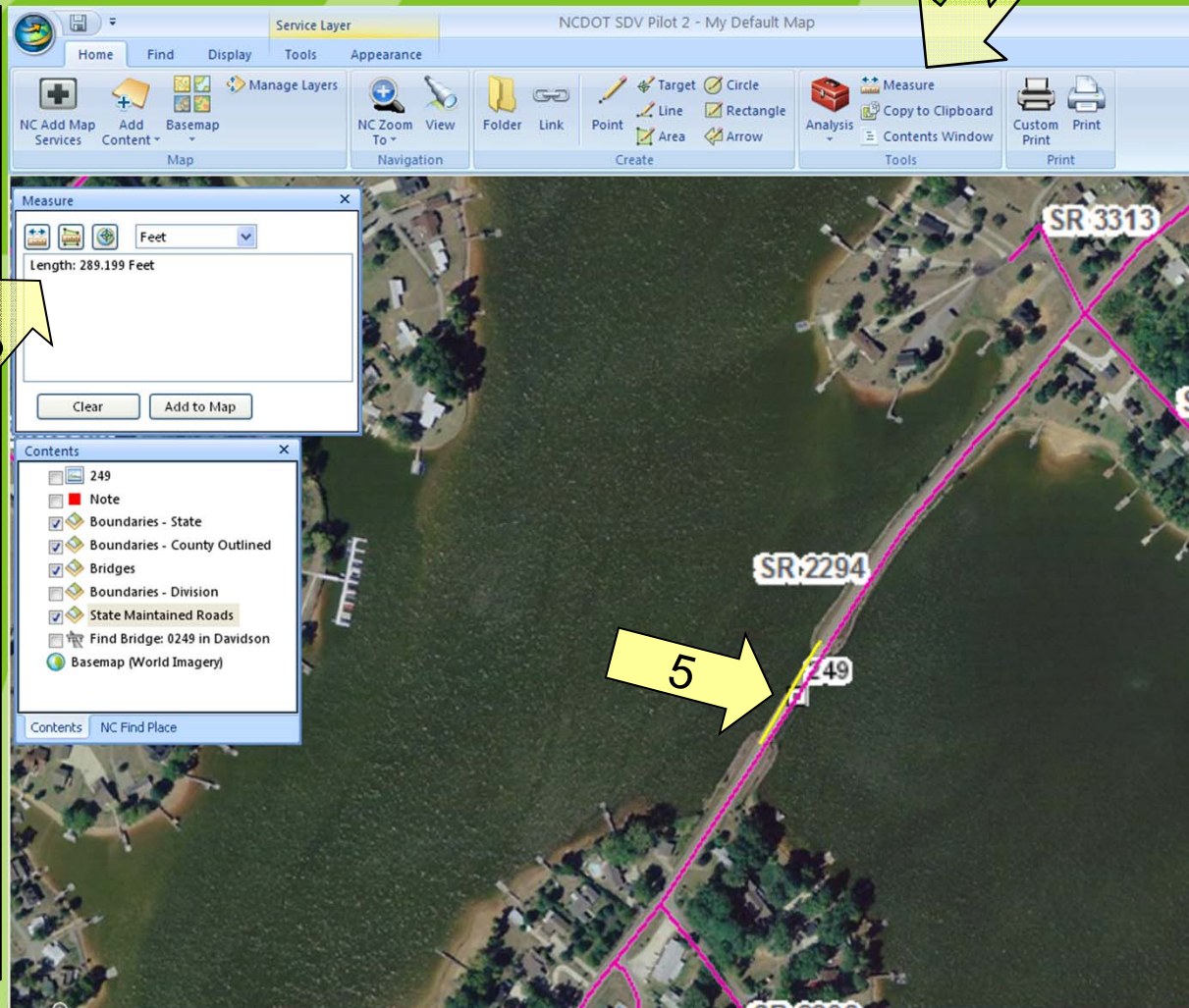


The screenshot displays the SDV software interface. The main window shows a satellite map with several road segments highlighted in pink. These segments are labeled with State Route numbers: SR-2288, SR-2294, SR-2296, SR-2402, and SR-3313. A small red square marker is placed on the SR-2294 segment, with the number '249' next to it. The interface includes a top menu bar with 'Home', 'Find', 'Display', 'Tools', and 'Appearance'. Below this is a toolbar with various icons for map management, navigation, and analysis. A 'Contents' panel is open in the bottom-left corner, listing the following layers: 249, Note, Boundaries - State, Boundaries - County Outlined, Bridges, Boundaries - Division, State Maintained Roads, Find Bridge: 0249 in Davidson, and Basemap (World Imagery). The 'State Maintained Roads' layer is currently selected. The status bar at the bottom shows the position as 1628618.50 703585.68 ft and includes the Esri logo and 'Source: USGS'.

SDV Pilot 2 Training

Measure Collapsed Bridge

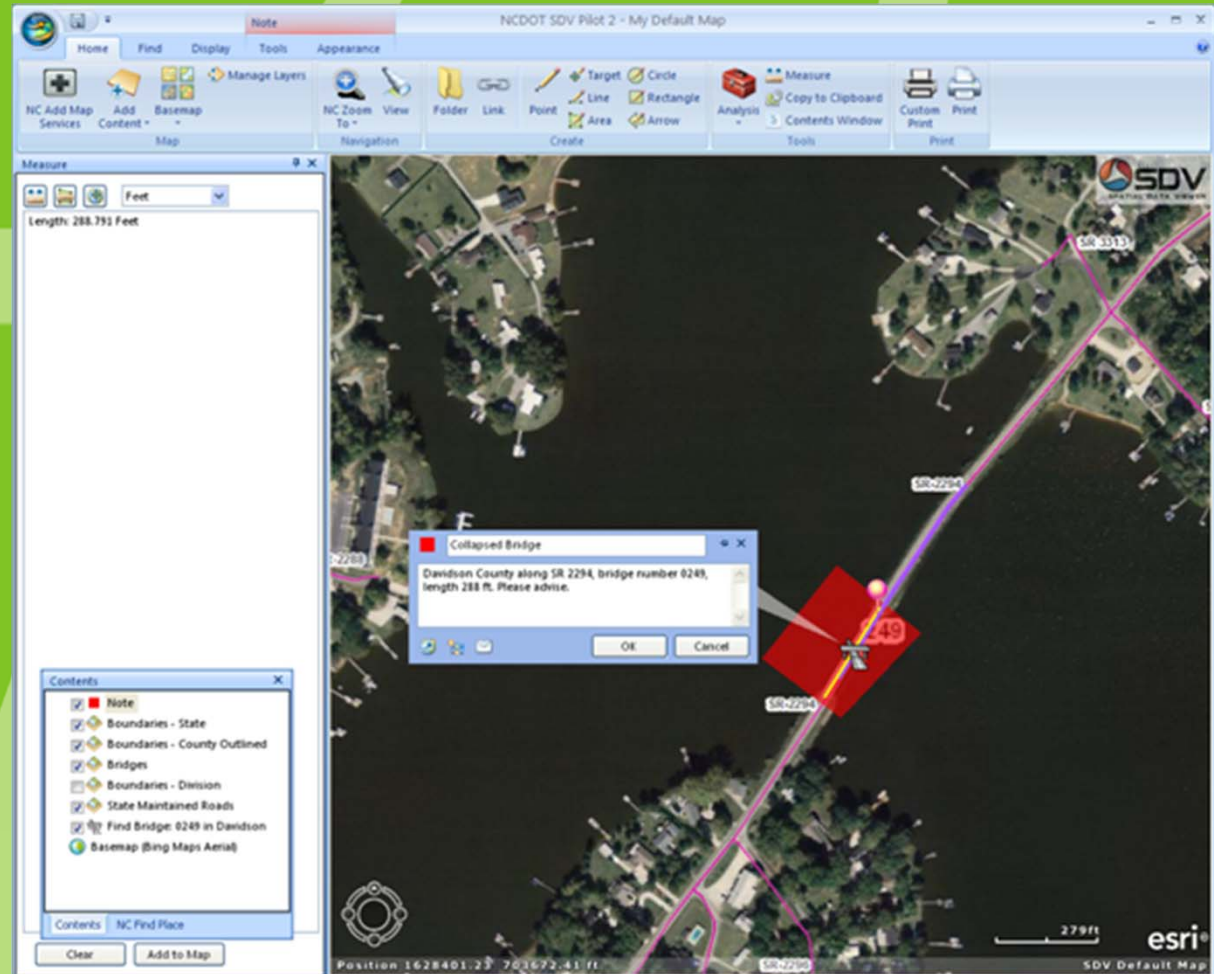
1. Click Home tab
2. Click Measure tool
3. Click the first button for length and the middle button to measure area and select unit of measurement
4. Click, draw line, then double click to finish
5. Measured area gets hi-lighted



SDV Pilot 2 Training

Create a Note

1. Click Home tab
2. Click Area notes button
3. Click on the map to outline the area of concern
4. Finish the area by double clicking
5. Add information to the note window

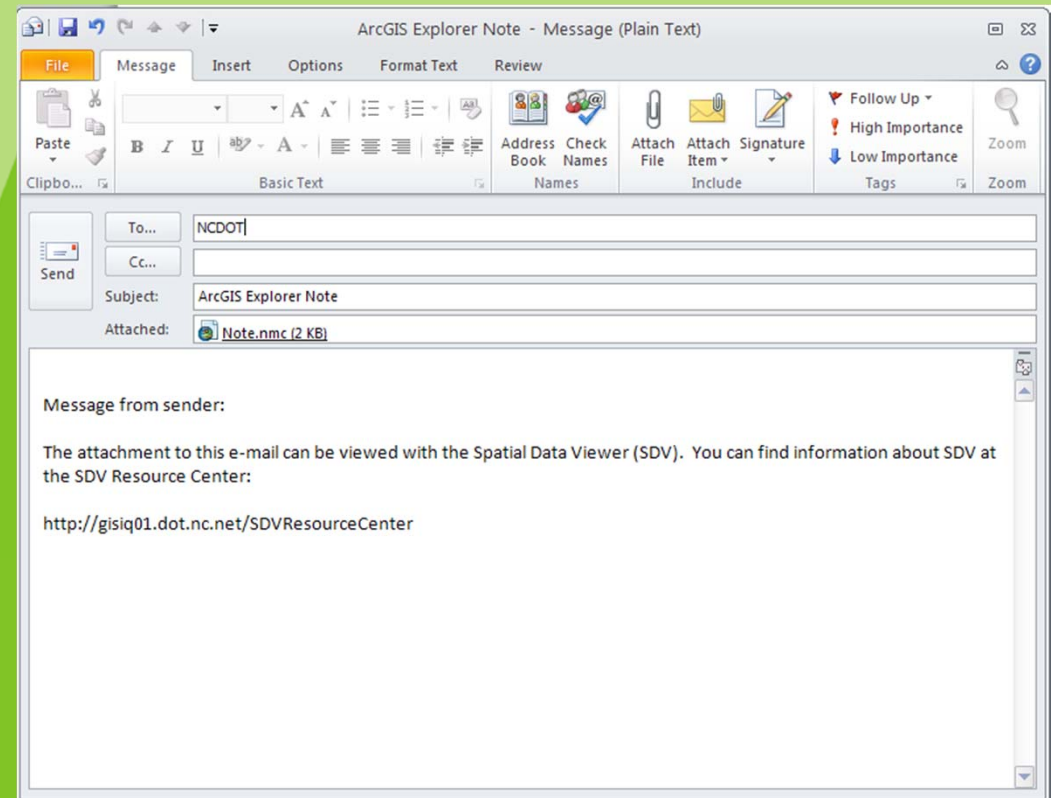
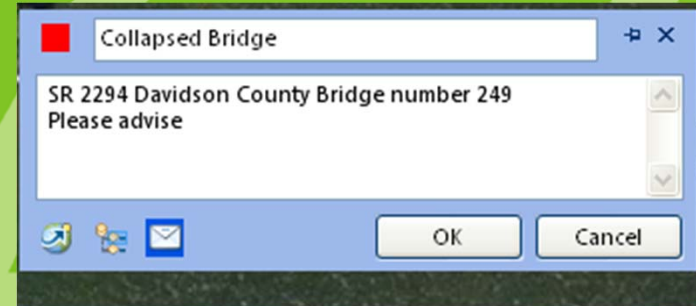


SDV Pilot 2 Training



Sending E-Mail Options

1. Click E-Mail icon on note
2. ArcGIS Explorer button
3. Click Share
 - E-mail Map sends a map package, others will need the same access to the data
 - E-mail View sends a jpg
 - You can also right click the mouse and select Share option

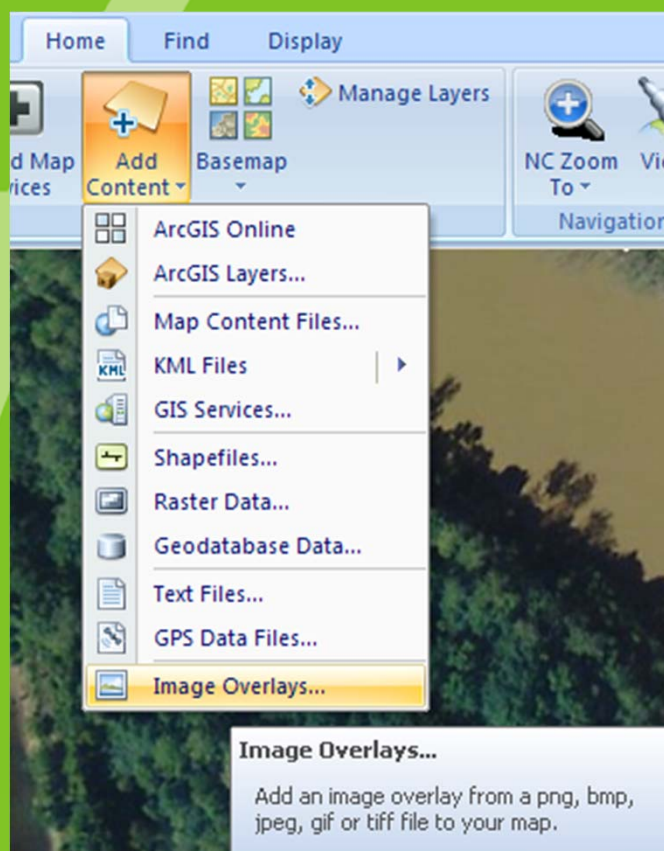


SDV Pilot 2 Training

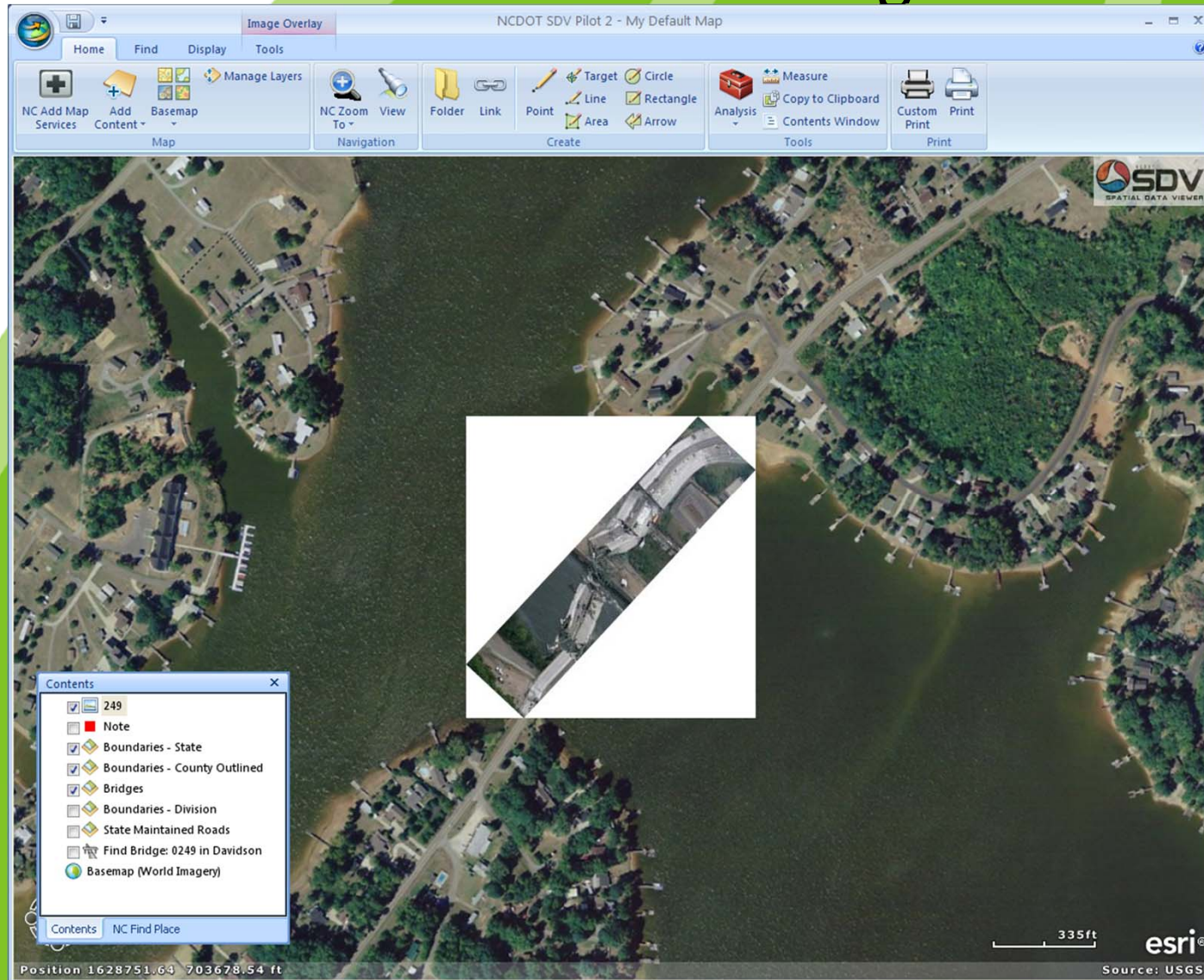


Add Content – External Data

1. Click Home tab
2. Click Add Content dropdown
3. Select File type and path



SDV Pilot 2 Training

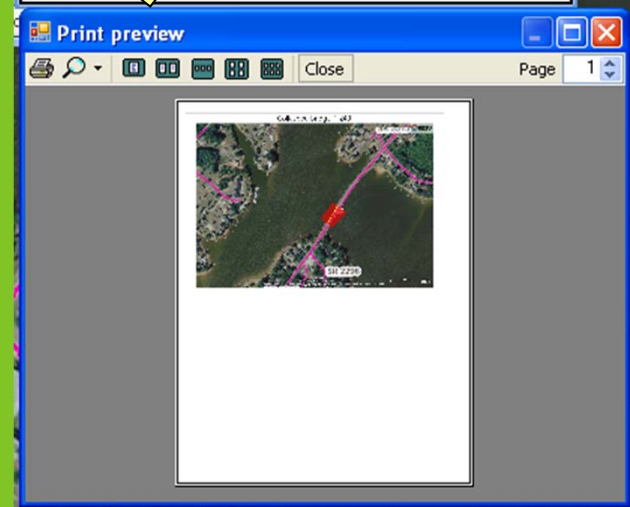
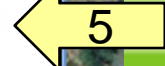
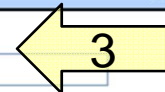
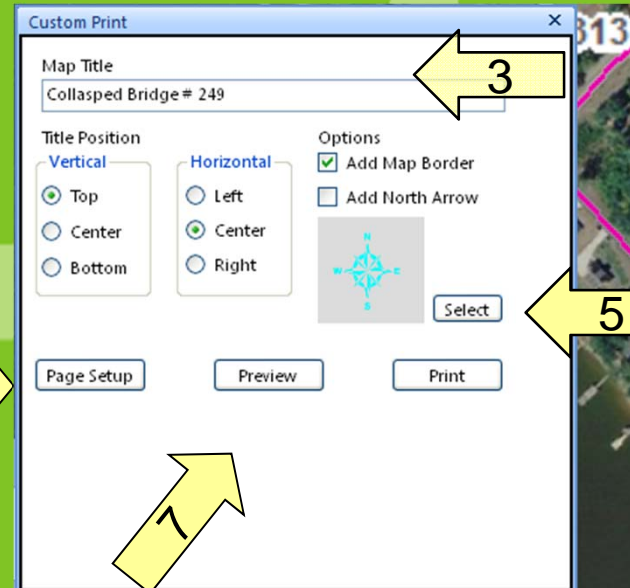
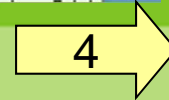
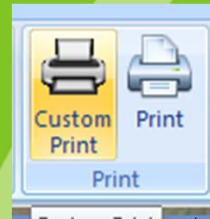
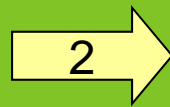



The screenshot displays the SDV Spatial Data Viewer interface. The title bar reads "NCDOT SDV Pilot 2 - My Default Map". The interface includes a ribbon with tabs for Home, Find, Display, and Tools. The Tools ribbon contains several groups of icons: Map (NC Add Map Services, Add Content, Basemap), Navigation (NC Zoom To, View), Create (Folder, Link, Point, Line, Area, Target, Circle, Rectangle, Arrow), Tools (Measure, Copy to Clipboard, Contents Window), and Print (Custom Print, Print). The main map area shows an aerial view of a lake with a bridge. An inset window provides a closer view of the bridge. A "Contents" panel is open in the bottom-left corner, listing layers such as "249", "Note", "Boundaries - State", "Boundaries - County Outlined", "Bridges", "Boundaries - Division", "State Maintained Roads", "Find Bridge: 0249 in Davidson", and "Basemap (World Imagery)". The status bar at the bottom shows the position "1628751.64 703678.54 ft", a scale bar for "335ft", the "esri" logo, and "Source: USGS".

SDV Pilot 2 Training

Print the Map using Custom Print

1. Click the Home tab
2. Click Custom Print
3. Enter Map title
4. Select page options
5. Select North Arrow
6. Choose page settings
7. Click print preview or print

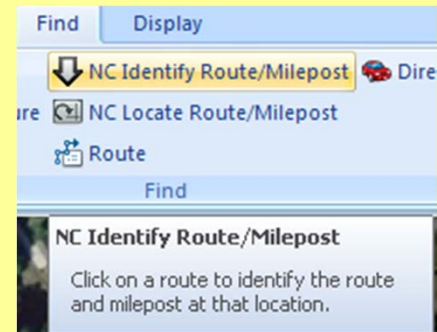


SDV Pilot 2 Training

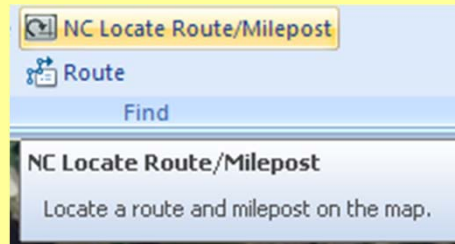


Additional Tools that have been added:

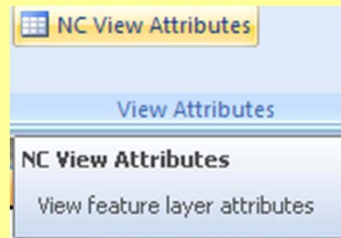
NC Identify Route/Milepost



NC Locate Route/Milepost



NC View Attributes





SDV Pilot 2 Training



Questions?



Thank you!

Appendix



SDV Working Group

Revised 11/22/2010

Core Members of SDV Working Group

Alpesh Patel, SDWG Chair, SDV Bus. Owner
John Padgett, GIS Unit, SDV Project Manager
Brian Mayhew, Traffic Safety Systems
Brian Padfield, TIP
Cary Clemmons, Structure Inventory & Appraisal
Daniel Keel, Operations
Don Early, Photogrammetry
James Tortorella, PD&EA
Jonathan Arnold, SRMU
Neil Mastin, PMU
Elena Talanker, TPB
Stephen Piotrowski, Traffic Survey Group
Ted Walls, Roadway Design
Mark Tyler, Governance Office Director
William Beatty, FHWA

WG Alternates and/or Meeting Attendees

Krishna Mandapaka, DOT PMO
Maggie Thomas, DOT PMO Director
Michael Davis, BSIP
Aurea Hernandez, Governance office (ALT)
James McInnis, PD&EA (ALT)
John Farley, GIS Manager
Brian Murphy, Traffic Safety Unit
Robert McKittrick, GIS Unit
Jill Stewart, BSIP
Travis Marshall, TPB (ALT)
Sarah Wray, GIS Unit
Jun Wu, GIS Unit

