Transportation Data & Analytics Office

JULY 2017

SLD HANDBOOK

Transportation Data & Analytics Office

JULY 2017
The SLD Handbook is produced by:

Transportation Data & Analytics Office
Florida Department of Transportation
JULY 2017

Copies may be downloaded in PDF format from the Transportation Data & Analytics Office Publications website:
http://www.fdot.gov/planning/statistics/tsopubs.shtm
Suggestions and Errata

The Transportation Data & Analytics Office desires that the July 2017 SLD Handbook be as useful as possible to those working with straight-line diagrams. Your suggestions for improvement, desired additions, and notice of errors or omissions are welcome. Please send any comments to:

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Log of Changes for
SLD Handbook published July 2017

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This document provides information on the Straight-line Diagram (SLD), what it contains, how to generate it and other related information.

**What is a Straight-line Diagram?**

An SLD is a graphical linear representation of select Roadway Characteristics Inventory (RCI) data as coded for individual roadways Active On the State Highway System (SHS). However, as an optional feature, SLDs for Active off the SHS roadways may be produced at the discretion of the Districts. The SLD is annotated with text information and graphics that describe or illustrate information considered general interest roadway data (e.g. intersecting roadways, roadway descriptions, bridges and other structures, functional classification, and curve data, etc.). SLDs require regeneration whenever certain data change. See the SLD Regeneration Requirements on pages 24 and 25.

A standard SLD has eleven reporting sections. In addition to the header, the basic SLD is composed of two divisions – top and bottom partitions. Each partition reports several different classes of data that include administrative, physical, classification, and status data. There is also an area reserved for District use.

**Reporting Sections**

An SLD has 11 reporting sections, A-K, that report different types of related data. However, at the District’s discretion, the SLD can expand up to sections A-T to include additional optional information. In the header area of the SLD, the first four sections reflect primarily administrative and inventory related information.

**Section A - SLD Inventory Block**
The upper left most set of boxes for data entry is the revisions initial box or frequently referred to as the SLD inventory block.

Components of the SLD inventory block should reflect the dates recorded in RITA (Roadway Inventory Tracking Application):

- 5 YR INV – Date of field visit for 5-year re-inventory
- SLD REV – Date the revised SLD is produced after 5 YR INV
- BMP – Beginning milepoint (BMP) for interim revisions due to change
- EMP – Ending milepoint (EMP) for interim revisions due to change
- INV – Date of field visit for interim re-inventory due to change
- SLD REV – Date revised SLD is produced after interim re-inventory due to change
- DATE – Date of occurrence in mm/dd/yyyy format
- BY – Initials of the person making the change to the SLD

**Section B - Roadway ID and Sheet No.**
Identifies the eight-digit roadway ID number and the sheet numbers.

**Section C - County and District**
Displays the name of the county and the two digit District number.

**Section D - Overall Section Status, Interstate or US Route No., and State Road No.**
Displays the overall section status (taken from the V/U/D screen), interstate or US route number (Feature 113), and state road number (Feature 111). Features 111 and 113 display according to how they are coded in RCI. Ensure that RCI is coded correctly according to the Features & Characteristics Handbook.

**Section E - Roadway Features**
Displays the data as coded in Features 111, 113, 114, 120, 124, 138 (added automatically), 140 (added automatically), 141 (added automatically), 143 (added automatically), 212, 214, 215, 219, 251, 252, 253, 258, 320, 322, and 326. Identify these features by their milepoint number.

**Section F - Roadway Composition**
Displays the roadway surface characteristics and surface type as coded in Features 230 and 232 respectively. Generally, the friction course information displays when it is available.

Section G - Horizontal Alignment
Displays information about the curvature and bearing of the roadway as coded in Features 220 and 221. The horizontal alignment data is divided into left and right roadway sides by the line that bisects this area, so that data for curves to the left are entered above the line and data for curves to the right are below the line.

Section H - Structure Description
Displays structural information about bridges, drainage pipes, overpasses, and culverts as reported here as coded in Features 241 and 258. Two symbols represent structures on the SLD. Structures less than 20 feet long are shown by a vertical graphic (a line with inverted arrowheads at each end) with annotated text. This format is similar for drainage pipes. If the structure is over 20 feet long, the bridge graphic is shown (a text-annotated rectangle). Text data for bridges, at a minimum, includes the beginning and ending milepoints, structure number, structure type code, and approximate width in feet.

Section I - District Use (optional)
Districts can use this section to show non-standard information that is not currently required.

Section J - SIS
Displays the Strategic Intermodal System (SIS) designation for the roadway as coded in Feature 147. There are 14 SIS designations that can be coded for highway facilities, connectors, military access, and links.

Section K - Functional Classification
Displays the Federal Functional Classification designation as coded in Feature 121 for the roadway. There are 12 designations ranging from urban principal arterial (the highest level) to rural local road (the lowest level).

Section L - Traffic Data (optional)
Displays the annual average daily traffic volume, average D factor, average K factor, average T factor, and date as coded in Feature 331.

Section M - Speed Limit (optional)
Displays the speed limit for each side of the roadway as coded in Feature 311. This section is divided like the Horizontal Alignment section showing the left side of the roadway on top and the right side of the roadway on bottom.

Section N - Bike Lanes (optional)
Displays where bike lanes are located along the roadway as coded in Feature 216. This section is divided like the Horizontal Alignment section showing the left side of the roadway on top and the right side of the roadway on bottom. For the left side of the roadway, bike slots are shown above the bike lanes, and for the right side of the roadway, bike slots are shown under the bike lanes. See the Annotated SLD on page 4.

Section O - Sidewalks (optional)
Displays where sidewalks are located along the roadway as coded in Feature 216. This section is divided like the Horizontal Alignment section showing the left side of the roadway on top and the right side of the roadway on bottom.

Section P - Access Management (optional)
Displays the access management classification as coded in Feature 146.

Section Q - Managed Lanes (optional)
Displays the data as coded in Feature 142.

Section R - NHS (optional)
Displays the data as coded in Feature 112 TRAVLWAY.

Section S - Special Designations (optional)
Displays the data as coded in Feature 115 SCENEHWY.

Section T – HPMS (optional)
Displays the data as coded in Feature 118 HPMSIDNO.

NOTE: Do not remove or modify the Version Notation in the bottom left corner.

Should a District choose to create their own SLDs, those SLDs must still contain the same format, order, look, and data as if the SLD was generated from the currently approved SLD Diagrammer.
### SLD Handbook

#### Straight Line Diagrams

**SLD Handbook**

**Handbook**

**Features**

- **Intersections**
  - Identifies the intersecting road names, directions and types.

- **Interchanges**
  - Identifies the interchange ID, name, number, exit number, and entrance/exit requirements.

- **Structures**
  - Identifies the structure ID, name, location, type of structure, and notes.

- **Railroads**
  - Identifies the railroad ID, name, location, and notes.

**Legend**

- **Roadway Features**
  - Type of Road
  - Surface and Lane Width

### Section A: Roadway Features

**Type Road**

- Feature 120

**Surface and Lane Width**

- Features 212, 214, 215, 219

### Section B: roadway features

- **Legend**
  - Roadway Features
  - Surface and Lane Width
  - Examples

### Section C: Roadway Construction

- **HORIZONTAL ALIGNMENT**
  - Identifies the non-curve point of intersection

### Section D: Structures Described

- **Structures**
  - Crossings
    - Examples with and without Beams

### Section E: Structural Design

- **Structural Design**
  - Examples with and without a Bridge

### Section F: District Use

- **For details**

### Section G: GIS

- **GIS**
  - Identifies the Strategic Information System designed and/or emerging GIS system components.

### Section H: Functional Classification

- **Functional Classification**
  - Evaluates the functional classification of roads.

### Section I: Functional Example

- **Functional Example**

### Notes:

- Milepoint Conversion: 0.001 miles = 5.28 feet; 0.010 miles = 52.8 feet; 0.010 miles = 528 feet; 0.010 miles = 5.28 feet; 0.010 miles = 52.8 feet; 0.010 miles = 528 feet; 0.010 miles = 5.28 feet.

- For further information on data refer to the RCI Features & Characteristics database.

- For further information on straight-line diagram production refer to the SLD Handbook.

---

**SLD Handbook**

**Sort out: July 2017**

**Prepared by:**

**Transportation Data & Analysis Office**

**Date:** 08/07/2017
DISCLAIMER:
An SLD will always show the exact same sections for the upper and lower partitions. This is only an example SLD that illustrates how features are displayed in their respective section.
**SLD Specifications**

Each roadway ID containing Feature 140 coded as code 2-Active On the SHS must have its own SLD.

**Size**
The layout is 11 by 17 inches.

**Orientation**
The layout orientation is landscape.

**Layout Margins**
All layout margins (top, bottom, left, and right) are 0.2 inches.

**Color Scheme**
SLDs are in black and white.

**SLD Legend**
If a District uses an optional section and adds symbology, then the SLD legend needs a description and explanation of that symbology. Otherwise, use the latest SLD Legend produced by Transportation Data & Analytics Office (TDA).
**Straight-line Diagrammer Application**

The Straight-line Diagrammer is a web-based application featuring a wizard interface to help generate SLDs from RCI data according to user-specified settings. It appeared online in October 2010 and can be accessed through the TDA SharePoint site: [http://webapp02.dot.state.fl.us/straightlinediagrammer](http://webapp02.dot.state.fl.us/straightlinediagrammer)

**Computer Requirements**

To access the application, you should have:

- A personal computer with screen resolution at least 1024×768
- A web browser installed on the computer (IE, Firefox, Chrome, Safari, …)
- A connection to FDOT intranet
- A valid FDOT user account

To review the SLD productions, you also need:

- An application for uncompressing zip files
- An application for reviewing PDF files (Adobe Acrobat Reader, …)
- An application for editing DXF files (MicroStation V8 XM, …)

**Start the Straight-line Diagrammer**

When you access the Straight-line Diagrammer, the *Welcome* screen displays first.

**Block Imports**

**THIS FUNCTION IS CURRENTLY UNDER DEVELOPMENT.** There are scaling issues that still need to be worked out. The descriptions that follow are subject to change.

Click **Block Imports** on the *Welcome* screen of the Diagrammer to begin. This allows you to upload enhanced DXF files. The Diagrammer will replicate any enhancements from the DXF file and include them on the SLD product. The result is an SLD with current RCI data and enhancements.

**Toolbar**

The toolbar consists of two buttons and the name of the loaded scheme.

- **Wizard** – takes you to the SLD generation wizard
- **Exit** – takes you back to the *Welcome* screen
- **Loaded Scheme** – displays the names of the loaded scheme

**Select Enhanced DXF File**

This is where you will upload DXF files to the web server, so that when the roadway ID is referenced, it will pull the enhancements. Click **Upload and Parse** to upload the DXF file.
Upload and Input Roadway ID (8 Digits)
This is required to associate the DXF file to the appropriate roadway ID and milepoint range. Click Find Milepoints to fill in the BMP and EMP boxes, then adjust them as necessary.

SLD Generation Wizard
Click Enter on the Welcome screen start the wizard. Send any questions or comments on the Straight-line Diagrammer via email to the application administrators: CO-SLD@dot.state.fl.us

The Straight-line Diagrammer provides a wizard page that allows the generation of SLDs following four predefined steps:
- Step 1 – Roadway Selection
- Step 2 – Feature Selection
- Step 3 – Display Configuration
- Step 4 – Finale

Wizard Interface

Message Bar
Displays messages.

Processing Indicator
Appears when the application tasks the server.

Wizard Tab
Used to change between steps 1, 2, 3, and 4.

Wizard Toolbar
Contains a series of tool buttons to provide general functions. The tool buttons include:
- Previous – To go back to the previous step (in steps 2, 3, and 4 only)
- Next – To go to the next step (in steps 1, 2, and 3 only)
- Select All – To select all features and characteristics (in step 2 only)
- Unselect All – To unselect all features and characteristics (in step 2 only)
- Expand All – To expand feature panels to show all characteristics (in step 2 only)
- Collapse All – To collapse feature panels to hide all characteristics (in step 2 only)
- Cancel – To clear the current task and go back to step 1
- Scheme – To open the dialog of scheme manager
- Exit – To exit the wizard and go back to the Welcome screen
**Loaded Scheme**
Displays the name of the loaded scheme.

**Wizard Panel**
Contains elements for each step.

**Scheme Management**
A scheme is a record of user settings used in SLD generation. Use a scheme to produce the same SLD products without the need to reconfigure output settings for the next generation of other SLD products. The Straight-line Diagrammer the creation of unlimited numbers of schemes. The information recorded in schemes includes:
- Selection of Features and Characteristics (step 2)
- Display Configurations of Features (step 2)
- Display Configurations of Pages and Partitions (step 3)
- Output Format (step 4)

Click **Scheme** on the toolbar to display the Scheme Manager. Click **QUIT** to exit the Scheme Manager.

**Load Scheme**
Use this section to load a scheme.
1. Select a scheme from the **SELECT SCHEME** dropdown list
2. Click **LOAD**
Delete Scheme
The default scheme or the system-defined scheme (template) cannot be deleted. Trying to do so will produce this error:

![Diagram showing the process of deleting a scheme](image)

Use this section to delete a scheme.
1. Select a scheme from the **SELECT SCHEME** dropdown list
2. Click **DELETE**

![Diagram showing the process of saving a scheme](image)

Save Scheme
The default scheme is the scheme that is loaded when the Straight-line Diagrammer starts. Changes to the system-defined scheme (template) cannot be saved.

Use this section to save a scheme.
1. Configure settings in steps 2, 3, and 4
2. Select a scheme from the **SELECT SCHEME** dropdown list
3. Check the **AS DEFAULT** checkbox for **YES** if you want this scheme to be loaded the next time you open the application
4. Click **SAVE**
Create New Scheme
Use this section to create a scheme.
1. Configure settings in steps 2, 3, and 4
2. Type a new scheme name in the INPUT NAME box
3. Check the AS DEFAULT checkbox for YES if you want this scheme to be loaded the next time you open the application
4. Click CREATE

Step 1 – Roadway Selection
Step 1 includes the following tasks:
- Input or select roadway
- Specify milepoint range
- Indicate on or off-system
- Specify using current RCI data or historical RCI data
- Link to external resources
- Generate changed data list
I. Input Roadway ID
1. Type the roadway ID (8 digits)
2. Click Find Milepoints to retrieve the BMP and the EMP for the roadway ID from the RCI database

Select Roadway ID
As an alternative, manually select a roadway ID.
1. Select District
2. Select county
3. Select roadway ID

Generate Changed Data List
This will generate a report in PDF format listing the RCI data that were changed after a specified date.
1. Input the roadway ID
2. Click Generate Changed Data List
3. In the popup window, input the specified date
4. Click Submit to generate the data change list

After clicking Submit, you will see to the Result screen. Click Download Zip File icon to download the report.

II. Input Milepoints
Click Find Milepoints or select a roadway ID from the dropdown lists, the BMP and EMP for the specified roadway ID are from the RCI database and displayed here. Change BMP and/or EMP by typing in new values.

III. ON/OFF-System
The Straight-line Diagrammer produces SLDs for Active On the SHS segments or Active Off the SHS segments. An Active On segment is owned and maintained by the Department as part of the SHS. An Active Off segment is maintained by another entity (county or city), but the Department collects data for reporting purposes. Use this section to specify if the roadway is Active On (On-System) or Active Off (Off-System).
IV. Historical Data
You can generate an historical SLD from RCI data archives based on a specified date.

1. Check the Generate Historical SLDs checkbox
2. Specify a date in yyyy-mm-dd format

<table>
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<th>Generate Historical SLDs</th>
<th>Specify Date (dd-mm-yyyy)</th>
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</thead>
<tbody>
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</table>

V. External Resources
To access external data sources, click one of the links. These external sources provide the ability to view relevant data for assisting the understanding of a roadway’s environment.

<table>
<thead>
<tr>
<th>VIEW</th>
<th>RCI</th>
<th>RTA</th>
<th>SLD</th>
<th>VED</th>
<th>LOG</th>
</tr>
</thead>
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Step 2 – Feature Selection
Step 2 includes the following tasks:

- Select characteristics for display
- Customize display configurations for the selected characteristics
- Hide/display certain sections in SLD products

Select Characteristics
Select which characteristics you want generated.

1. Expand the characteristic panel by clicking the down arrow button

2. Click the checkbox to select or unselect a characteristic

3. Utilize the wizard toolbar buttons to Expand All, Collapse All, Select All, and Unselect All
Customize Display Configurations for Selected Characteristics

Characteristics are grouped together and displayed using the same configurations. Customize display configurations for each group.

1. Click the display settings link to show the configuration window

2. Determine the settings for **COLOR**, **FONT FAMILY**, **FONT STYLE**, **SIZE FACTOR**, and **LINE WEIGHT**

3. Click **OK** to complete the customization

**NOTE:** **SIZE FACTOR** is an amplification of the system’s predefined size by a factor of 0.0 to 5.0.

Hide Section

Sections F, G, H, I, J, and K will display by default on SLD products, even when no characteristics associated with these sections are displayed. The only way not to show them is by clicking the hide section checkbox.

1. Check the checkbox to hide a section
Step 3 – Display Configurations
Step 3 includes the following tasks:
- Customize display configurations of pages
- Customize display configurations of sections
- Specify partition scaling method

I. Page Configuration
Customize the look of the generated page(s).
1. Select a page size from the dropdown list
2. Increase or decrease page margins
3. Select style, line weight, and color of page border
4. Select font attributes (family, style, size factor, and color) of page titles

II. Section Configuration
Customize the look of the border and title font for sections A, B, C, and D.
1. Select style, line weight, and color of section border
2. Select font attributes (family, style, size factor, and color) of section titles
3. Select font attributes (family, style, size factor, and color) of section (A-D) titles

NOTE: **Size Factor** is an amplification of the system’s predefined size by a factor of 0.0 to 5.0.

III. Scaling
1. Specify one partition or two partitions per page.
2. A scale is defined as the miles displayed within one partition. The Straight-line Diagrammer provides three scaling methods.

- **Constant** – All partitions have uniform scales. Specify the constant scale in the **MILES/PARTITION** box.

- **Automatic** – The Straight-line Diagrammer calculates the scale for each partition based on an optimization algorithm.
  1. Click **AUTO SCALING CONFIGURATION** to show the Automatic Scaling Configuration window.
  2. Select the features to be used in automatic scaling.
  3. Set the minimum distance for mile breaks and the maximum distance for mile breaks.
  4. Click **OK** to complete the automatic scaling configuration.

- **Manual** – Specify scales for each partition.
  1. Input a scale.
  2. Click **ADD** to add the scale to the end of the scaling list.
  3. Click **DELETE** to delete the scale at the end of the scaling list.
  4. Click **CLEAR** to delete all scales in the scaling list.
Step 4 – Finale

Step 4 includes the following tasks:

- Specify output format
- Decide whether or not to output the RCI data used in generating the SLD
- Submit

I. SLD Output

1. Check DXF, PDF, or both

II. RCI Data

1. Check the Yes checkbox to output RCI data
2. Check Data Format as original, partitional, or both

NOTE: Original (Full Set) RCI data output is a full set of retrieved data for a whole roadway ID. Partitional output is a filtered RCI dataset grouped into partitions according to BMP, EMP, and selected features/characteristics. All RCI data files are in CSV format.

Submit

Initiates the generation of the SLD according to the specifications in the previous steps.

1. Click Submit
**Result Screen**
When the Straight-line Diagrammer completes the task of SLD generation, the results (PDFs, DXFs, and/or CSVs) are compressed in a single zip file.

1. Click the **Download Zip File** icon to download the zip file
2. Click **WIZARD** to return to Step 1 and start over
3. Click **EXIT** to return to the **Welcome** screen

---

**On-System Key Sheet Generation**
County Section Number Key Sheets (aka Key Sheets) are location maps for SLDs. Key Sheets display the location of each roadway ID with an SLD within each county.

The TDA Systems Support division maintains an application called the County Key Sheet application for use in ArcMap. Use the application to ensure that the Key Sheets follow the appropriate specifications. For more information on this application, contact the TDA Systems Support division.

---

**Off-System MAP-21 and SIS Connector SLD and Key Sheet Generation**
Key Sheets are location maps for SLDs. Key Sheets display the location of each roadway ID with an SLD within each county.

The TDA Systems Support division maintains an application called the County Key Sheet application for use in ArcMap. Use the application to ensure that the Key Sheets follow the appropriate specifications. For more information on this application, contact the TDA Systems Support division.
Using the Straight-line Diagrams Online GIS Web Application

In order to view, print, download, or email straight-line diagrams visit the SLOGIS website: http://www2.dot.state.fl.us/straight-linesonlinegis/
**Links**
Above the map and below the map, links provide navigation to various locations throughout the Florida Department of Transportation website.

The only link that directly pertains to the application itself is:
- **FDOT Service Desk**

**FDOT Service Desk**
Click this to email the FDOT Service Desk. In the event that the link is broken or does not properly pull up an email client, the email is FDOT.ServiceDesk@dot.state.fl.us

**Searching for SLDs**
There are two methods to search for SLDs. The first is to use the map and the second is to use the dropdown menus at the bottom.

**Selecting SLDs Using the Map**
The map functions just like other online mapping applications, such as Google Maps and Bing Maps. Use the mouse to click and drag. Use the scroll wheel of the mouse to zoom in and out. The blue highlighted roadways are SHS roadways that have SLDs.

The map has interactive functions located on the top left side.

- The **hand** function lets you pan the map.
- The **zoom in** magnifying glass will zoom in to the area highlighted on the map.
- The **zoom out** magnifying glass will zoom out upon clicking it.
- The **world** displays the entire state.
- The ‘i’ is an identify function. Use it to click on one of the blue roadways. After clicking on a roadway, it turns golden brown.

In the top right corner of the map, there is a **Base Map** option. Use this option to select between **Streets** (the default) or **Aerials**.

At the bottom, in the center of the map, popup boxes display. They communicate information to the user.
Selecting SLDs Using the Dropdown Menus

The dropdown menus are located in a Select box. There are also two buttons, Launch SLD and Clear Selection.

<table>
<thead>
<tr>
<th>Select</th>
</tr>
</thead>
<tbody>
<tr>
<td>District:</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Use the **District** dropdown menu to select a District. After selecting, the map will automatically zoom to that District.

Use the **County** dropdown menu to select a county. After selecting, the map will automatically zoom to that county.

Use the **Roadway** dropdown menu to select a roadway. After selecting, the map will automatically zoom to that roadway.

The **Launch SLD** button will open a new browser window/tab of the selected SLD.

The **Clear Selection** button will clear the selected roadway from the map and the **Select** box.

Searching for Key Sheets

Use the **District** and/or **County** dropdown menus to narrow the search for a Key Sheet. Select the desired Key Sheet from the **Roadway** dropdown menu. All Key Sheets for Districts 1 through 7 are named COUNTY KEYSHEET and have zeroes as their section and sub-section numbers. All Key Sheets for Turnpike are named COUNTY KEYSHEET (TURNPike), but have ‘479’ as their section number and ‘999’ as their sub-section number.
Viewing the SLD
Select a roadway ID from the Roadway dropdown menu then click Launch SLD. A PDF file opens in a new browser window/tab. In order to print the SLD click the printer icon in the top left. In order to save the SLD click the floppy disk icon in the top left. In order to email the SLD click the letter icon in the top left.

NOTE: The SLD is only viewable through a PDF viewer such as Adobe Acrobat.
How to Upload to the SLO Site

Only users with authorized access can upload SLDs to the SLO site. To gain authorization access, submit an automatic access request form (AARF) for Straight-Line Diagrams Online application (SLO). The upload site is on the FDOT intranet. Get to the site by using this link: http://webapp02.dot.state.fl.us/straight-linesonlineFDOT/

The SLO site automatically assigns a date when the PDF file is uploaded.

NOTE: Include symbology for enhancements made to the SLD on the legend sheet.

Click Upload New PDF.

Follow the directions on the screen, and then click Upload to upload the file.

SLDs
For uniformity, all SLD PDF files should be named starting with the roadway ID number and ending with the extension of “.pdf”. It is recommended that multiple sheets be created as one file for one roadway ID. That way it is easier to locate and view the SLD for a particular roadway ID. SLD files should fit in the allowable 1 MB size, however, if the file needs to be broken into multiple files, use the following format, 99010000_1_of_2.pdf.

Key Sheets
Use the following format, CC000000_X County Key Sheet, where “CC” stands for the county code and “X” is the county name. For example, 26000000_Alashua County Key Sheet. For Key Sheet insets, use the following format, 26000000_Alashua County_inset1, 26000000_Alashua County_inset2, 26000000_Alashua County_inset3, etc.

For Turnpike Key Sheets, use the following format, CC479999_Turnpike_X County Key Sheet, where “CC” stands for the county code and “X” is the county name. For example, 93479999_Turnpike_Palm Beach County Key Sheet.
How to Delete files from the SLO Site

After uploading SLD(s), perform a search to see if everything uploaded properly. If there is a need to delete the uploaded file(s), use the Delete Action column on the search results page to delete the file(s) by clicking the file name.

Before actually deleting a file, a confirmation screen will appear asking to confirm the deletion. Click **Confirm Deletion** to delete the file from the SLO site. Or, click **Return to Search Page** to cancel the deletion.
On-System SLD Regeneration Requirements

Districts are required to update and distribute SLDs that accurately and legibly reflect the data recorded in the RCI database within 120 calendar days from the date of written notification of any revision to the following list of requisite descriptive data.

- **Feature 111 – State Road System**
  - STROADNO – State Road Number
  - STRDNUM2 – State Road Number (next occurrence)

- **Feature 113 – AASHTO**

- **Feature 114 – Local Name**
  - LOCALNAM – Posted or Known Local Street Name

- **Feature 120 – Type Road**
  - TYPEROAD – Type of Road

- **Feature 121 – Functional Classification**
  - FUNCLASS – Federal Functional Classification

- **Feature 124 – Urban Classification**
  - HWYLOCAL – Location Code
  - PLACECD – Current Place Code
  - URBAREA – Urban Area Number

- **Feature 138 – Roadway Realignment**
  - NALIGNID – Section Identification of New Alignment
  - NALNGBPT – Beginning Milepoint of New Alignment
  - NALNENPT – Ending Milepoint of New Alignment

- **Feature 140 – Section Status Exception**
  - STATEXPT – Section Status Exception

- **Feature 141 – Stationing Exceptions**
  - STATIONING EXCEPTION (reference effective June 2010)
  - BEGSECPT – Beginning Roadway Section Milepoint
  - ENDSECPT – Ending Milepoint of Exception
  - RDWYID – Roadway ID of Exception Within a County

- **Feature 142 – Managed Lanes**
  - LMLBMP – Left managed lane begin milepoint
  - LMLEMP – Left managed lane end milepoint
  - LMLRDWY – left managed lane roadway ID
  - MAINBMP – Mainline begin milepoint
  - MAINEMP – Mainline end milepoint
  - MAINRDWY – Mainline roadway id
  - RMLBMP – Right managed lane being milepoint
  - RMLEMP – Right managed lane end milepoint
  - RMLRDWY – Right managed lane roadway ID

- **Feature 143 – Associated Station Exceptions**
  - ASSOCIATED STATIONING EXCEPTION (reference effective June 2010)
  - BEGSECPT – Beginning Roadway Section Milepoint
  - ENDSECPT – Ending Milepoint of Exception
  - RDWYID – Roadway ID of Exception Within a County

- **Feature 147 – Strategic Intermodal System**
  - SISFCTPx – SIS Facility Type Level (x=1-9)

- **Feature 212 – Through Lanes**
  - NOLANES – Number of Through Roadway Lanes
  - SURWIDTH – Total Through Lanes Surface Width

- **Feature 214 – Outside Shoulders**
  - SHLDTYPE – Highway Shoulder Type
  - SHLDTYPx – Other Highway Shoulder Type (x=2,3)
  - SLDWIDTH – Highway Shoulder Width
  - SHLDWTHx – Other Highway Shoulder Width (x=2,3)

- **Feature 215 – Highway Median Type**
  - MDBARTYP – Type of Median Barrier
  - MEDWIDTH – Highway Median Width
  - RDMEDIAN – Type of Median

- **Feature 219 – Inside Shoulders**
  - ISLDTYPE – Inside Shoulder Type
  - ISLDTYPx – Other Inside Shoulder Type (x=2, 3)
  - ISLDWIDTH – Inside Shoulder Width
  - ISLDWTHx – Other Inside Shoulder Width (x=2, 3)
- **Feature 220 – Non-Curve Intersection**
  - NCPTINT – Non-Curve Point of Intersection

- **Feature 221 – Horizontal Curve**
  - BEARING – Compass Bearing Along Road at a Point
  - HRZCANGL – Horizontal Curve Central Angle
  - HRZDGCVRV – Horizontal Degree of Curve
  - HRZPTINT – Horizontal Point of Intersection

- **Feature 230 – Surface Description**
  - SURFNUM – Pavement Surface Type

- **Feature 232 – Surface Layers**
  - FRICTCSE – Type of Friction Layer Course

- **Feature 230 – Surface Description**
  - SURFNUM – Pavement Surface Type

- **Feature 232 – Surface Layers**
  - FRICTCSE – Type of Friction Layer Course

- **Feature 240 – Crossdrains & Box Culverts**
  - BOXCULHT – Box Culvert Height
  - BOXCULLT – Box Culvert Width
  - BXCULGTH – Box Culvert Length
  - CRSRGLGH – Length of Crossdrain
  - NOBXCULV – Number of Box Culverts
  - NOCRDRAN – Number of Crossdrain Pipes
  - PIPEC HDAM – Pipe Diameter
  - PIPEHIGH – Non-Circular Pipe Height
  - PIPEWIDTH – Non-Circular Pipe Width

- **Feature 251 – Intersections**
  - BEGSECNM – Beginning Roadway Section Milepoint Name
  - ENDSECNM – Ending Roadway Section Milepoint Name
  - INTSDIRx – Intersection Direction (x=1-9)
  - INTSRTPx – Intersection Surface Type (x=1-9) (optional)

- **Feature 252 – Interchanges**
  - EXITNO – Interchange (Exit) Number
  - INTERCHG – Type of Interchange

- **Feature 253 – Railroads**
  - CHKDIGIT – Check Digit
  - RRCROSNO – National RR Grade Crossing Number

- **Feature 258 – Structures**
  - BOXCULNO – Box Culvert Structure Number
  - BRIDGESED – Bridge Structure ID Number
  - FACCROSS – Facility Crossing Name
  - UNDPASNO – Underpass Number
  - TUNNELNO – Tunnel Number

- **Feature 320 – Milemarker Signs**
  - MILEMARK – Milemarker Sign

- **Feature 326 – Traffic Monitoring Sites**
  - TRFSTANO – Traffic Count Station Number
  - TRSTATYP – Traffic Count Station Type (Type I – Inactive, Type R – Roadtubes, and Type V – Virtual are optional)
Contacts
For information or questions about particular SLDs, contact the specific District Office.

District 1
District Maintenance Statistics Office 1-800-292-3368
Southwest Florida (Charlotte, Collier, De Soto, Glades, Hardee, Hendry, Highlands, Lee, Manatee, Okeechobee, Polk, and Sarasota)
Major cities: Arcadia, Bartow, Bradenton, Fort Myers, Lakeland, Naples, North Port, Sarasota, Sebring, and Venice

District 2
District Planning Statistics Office 1-800-749-2967
Major cities: Gainesville, Jacksonville, Lake City, Palatka, Perry, Saint Augustine, and Starke

District 3
District Planning Statistics Office 1-888-638-0250
Northwest Florida (Bay, Calhoun, Escambia, Franklin, Gadsden, Gulf, Holmes, Jackson, Jefferson, Leon, Liberty, Okaloosa, Santa Rosa, Wakulla, Walton, and Washington)
Major cities: Apalachicola, Chipley, Crestview, Fort Walton Beach, Marianna, Panama City, Pensacola, Quincy, and Tallahassee

District 4
District Planning Statistics Office 1-866-336-8435
Southeast Florida (Broward, Indian River, Martin, Palm Beach, and St. Lucie)
Major cities: Belle Glade, Boca Raton, Fort Lauderdale, Fort Pierce, Hollywood, Pompano Beach, Port St. Lucie, Stuart, Vero Beach, and West Palm Beach

District 5
District Maintenance Statistics Office 1-800-780-7102
Central Florida (Brevard, Flagler, Lake, Marion, Orange, Osceola, Seminole, Sumter, and Volusia)
Major cities: Daytona Beach, DeLand, Melbourne, Merritt Island, Ocala, Orlando, and Titusville

District 6
District Planning Statistics Office 1-800-435-2368
South Florida (Miami-Dade and Monroe)
Major cities: Coral Gables, Hialeah, Key West, and Miami

District 7
District Maintenance Statistics Office 1-800-226-7220
West Central Florida (Citrus, Hernando, Hillsborough, Pasco, and Pinellas)
Major cities: Brooksville, Clearwater, Dunedin, Largo, New Port Richey, St. Petersburg, and Tampa

Turnpike
District Planning Statistics Office 1-800-798-3691
Florida's Turnpike Enterprise oversees an over 460-mile system of limited-access toll highways: Florida's Turnpike, extending north from Homestead in Miami-Dade County to Wildwood in Sumter County; the Seminole Expressway and Southern Connector (Toll 417) in Seminole, Orange and Osceola counties; the Beachline Expressway West (Toll 528) in Brevard and Orange Counties; the Polk Parkway (Toll 570) in Polk County; the Veterans Expressway and Suncoast Parkway in Hillsborough, Pasco and Hernando counties (Toll 589); the Sawgrass Expressway (Toll 869) in Broward County; and the southern 11 miles of the Daniel Webster Western Beltway (Toll 429) in Orange and Osceola Counties.
### Abbreviated SLD Descriptions for Features 214, 215, & 219

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<td>FNC</td>
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### Abbreviations

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