



Tennessee Image Viewer

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Salons A-C 3:30 PM

5.1.2 Photolog, Imagery, LiDAR



What is Image Viewer?

A Web application for viewing:

- Roadway Images
- Aerial imagery
- Maps
- Data

All geospatially synchronized using the TRIMS Linear Reference System.

How did we get here?


- In the beginning TDOT used reel to reel movies to view the roadway in the beginning.
- In 1996 a new Photolog application was introduced providing the ability to view roadway images on the computer.
- 18 years later, Photolog met it's useful life!
 - Old Code
 - No one knows how to change
 - Internet Explorer limitations (no longer works with IE10)

Intranet – Web Photolog

Stop at Intersections/RR-X **View** Front & Side **Play Frames:** 1

County CHEATHAM **Route** SR001 **Special Case** 0-NONE **Cnty Seq** 1

Milepoint 2.942 **Direction** E **Signing** + **Date Collected** 01/29/2015 **Find Now**



The interface includes a vertical toolbar on the left with icons for: home, stop, play, back, forward, refresh, search, zoom in, zoom out, print, save, and a file icon labeled 'File 10'. At the bottom of the toolbar are icons for a highway shield with '64', a hash symbol, and a refresh icon.

PowerBuilder Client/Server Photolog

Photolog Summary Screen

County: **WILLIAMSON** Route: **SR096** Special Case: **0-NONE** Cnty Seq: **1** Cancel

H
Logmile:
Dir.:
Signing:
Date:
Faster Slower



Route Feature

Log Mile	Route Feature Description
.000	ENTER FAIRVIEW CITY LIMITS
.000	BEGIN HWY. 96 N.
.000	BEGIN 40 MPH
.327	ENTER FAIRVIEW URBAN BOUNDARY
.363	TRAFFIC SIGNAL
.363	RAMP TO I-40 WB LNS. RT.
.363	A007 DRAG STRIP RD. LT.
.368	RAMP FROM I-40 WB LNS. RT.
.520	OVERHEAD [94100400003]: I-40
.550	I-40 / CENTER OF OVERHEAD
.710	TRAFFIC SIGNAL
.710	RAMP FROM I-40 EB LNS. LT.


Geometrics

Begin Log Mile	End Log Mile	No. Lns	Speed Limit	Truck Spd Lmt	Illum	Access Control	Land Use
.000	.310	2	40		NO	0-NONE	4-FRINGE (MIX RES. COMM.)
.310	.460	2	40		NO	0-NONE	2-COMMERCIAL
.460	1.120	2	40		NO	0-NONE	2-COMMERCIAL
1.120	2.380	2	50		NO	0-NONE	7-RESIDENTIAL
2.380	3.490	2	50		NO	0-NONE	7-RESIDENTIAL
3.490	4.420	2	45		NO	0-NONE	7-RESIDENTIAL
4.420	4.700	2	45		NO	0-NONE	7-RESIDENTIAL
4.700	5.010	2	45		NO	0-NONE	7-RESIDENTIAL
5.010	5.360	2	45		NO	0-NONE	4-FRINGE (MIX RES. COMM.)
5.360	5.510	2	45		NO	0-NONE	0-RURAL

Crash Grand Totals

Crash Rate: # Fatal Crashes: Crash Start Yr:
Inj Crashes: # Prop Dmg Crashes: Crash End Yr:

Roadway Characteristics



BLM: ELM:

Traffic & Geometric Data

AADT: AADT Year: % Truck: ROW:
Land Use: # Lanes:

Image Viewer Design Process

- The initial design was done at the 2013 Intergraph Transportation Summit – evening social, napkin kinda thing
- Must integrate with E-TRIMS and other applications
 - Include data grids
 - Include maps
 - Include search (projects, roads, structures)
 - Maybe LIDAR (someday)
- Must be accessible over the Internet

What data is synchronized?

- Route Features
- Geometrics
- Maintenance Features / Inventory
- Road Segment
- Traffic
- Crashes
- Projects
- Structures

What makes this application so useable?


- Web application
- Internet accessible w/secure login
- IE, Chrome, Safari
- Can be integrated with other applications – by calling with parameters (county, route, log mile)

Demo

File Edit View Favorites Tools Help

TDOT Tennessee Image Viewer Welcome: GIS MAPPING

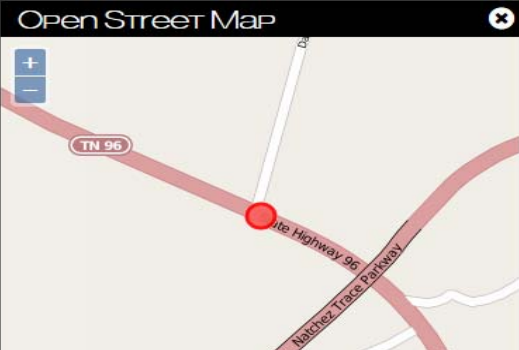
WILLIAMSON SR096 0-NONE 2 1.345 Direction: E Signing: +




Q Search Maps Data Grids [Navigation icons] Download Zoom In/Out

Log Mile	Route Feature Description	Item Code	Desc Code
.280	CULVERT: BRANCH	9-OTHER-MINOR	980
.670	CULVERT: DRAINAGE	9-OTHER-MINOR	980
.780	CULVERT: BRANCH	9-OTHER-MINOR	980
.970	CULVERT: DRAINAGE	9-OTHER-MINOR	980
1.282	B507 DALE EWING LN. LT.	5-CO. RD./CITY ST.	530
1.330	CULVERT: BRANCH	9-OTHER-MINOR	980
1.420	MCPHERSON CEMETERY LT. /	9-OTHER-MINOR	913
1.430	CULVERT: BRANCH	9-OTHER-MINOR	980
1.560	UNDERPASS: E500 NATCHEZ T	2-BRIDGE/UP/OH	205
1.635	A001 EGYPT HOLLOW RD. LT.	5-CO. RD./CITY ST.	530
1.650	BRIDGE [94SR0960005]: BRANC	2-BRIDGE/UP/OH	221

Open Street Map



TDOT Imagery



Questions?

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