



Metro

# MEASURE UP

Arterial Performance Measurement Program

**ClearGuide Training**

March 4, 2020

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## OBJECTIVES

Teach you the basics of using ClearGuide

- How to navigate the site
- Review the available data, report types, and performance measures

Give you some hands-on experience

- Clicking around in the site yourself is more memorable than only reviewing slides

Provide a tool for future reference

- This presentation, along with exercises, will guide you in future ClearGuide use

## AGENDA

2:00 – 2:10	(10 min)	Introductions and class overview
2:10 – 2:30	(20 min)	ClearGuide admin and navigation
2:30 – 2:50	(20 min)	Hands-on follow instructor example demo
2:50 – 3:00	(10 min)	Review of ClearGuide functions and features
3:00 – 3:15	(15 min)	Example exercise (on your own)
3:15 – 3:30	(15 min)	Advanced features

## QUESTIONS

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## Purpose of ClearGuide:

- Be able to assess mobility performance measures on arterial corridors
- Arterial performance measurement tool to support local agency and sub-regional operations and planning efforts
- Data-driven decision-making

## Clear Guide (<https://metro.iteris-clearguide.com/>) or (<https://RIITS.net>)

- Online roadway performance monitoring tool (freeways and arterials)
- Data, performance measures, route congestion, map animations, etc.
  - Reports, charts, and export
- It uses HERE ([www.here.com](http://www.here.com)) real-time crowd-sourced data
  - Real-time continuous speed data every minute by short links (data is archived)
- It also includes manually collected traffic volumes on selected arterials (as part of Countywide Arterial Performance Measurement Baseline Analysis)
  - About 200 arterial corridors in County using 2017 and 2018 data
  - Some count data provided by local agencies

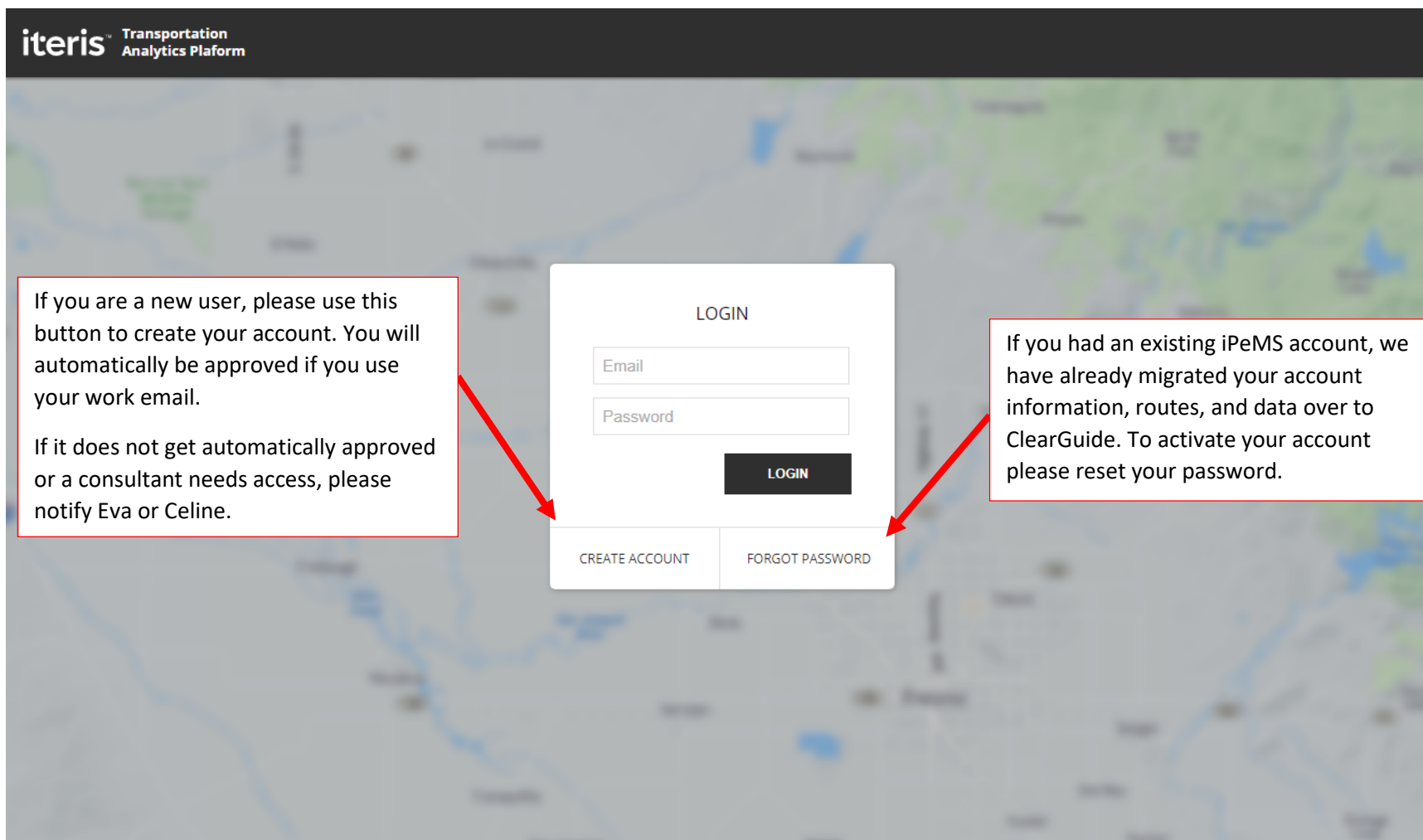
## ClearGuide Differences from iPeMs

- Instant route data
- Simpler navigation
- Faster reports
- More frequent releases of updates and enhancements
- New before-after study capabilities on the Route Time of Day report



## 1. Creating and logging in to your account

- If you have not already applied for an account, you can do that any time at the log-in page (click on “Create account”)
- Once you have your account, enter your Username and Password and click “Login”



The screenshot shows the login interface for the iteris Transportation Analytics Platform. The header includes the iteris logo and the text "Transportation Analytics Platform". The main content area features a "LOGIN" form with fields for "Email" and "Password", a "LOGIN" button, and links for "CREATE ACCOUNT" and "FORGOT PASSWORD".

**iteris™ Transportation Analytics Platform**

**LOGIN**

Email

Password

**LOGIN**

CREATE ACCOUNT FORGOT PASSWORD

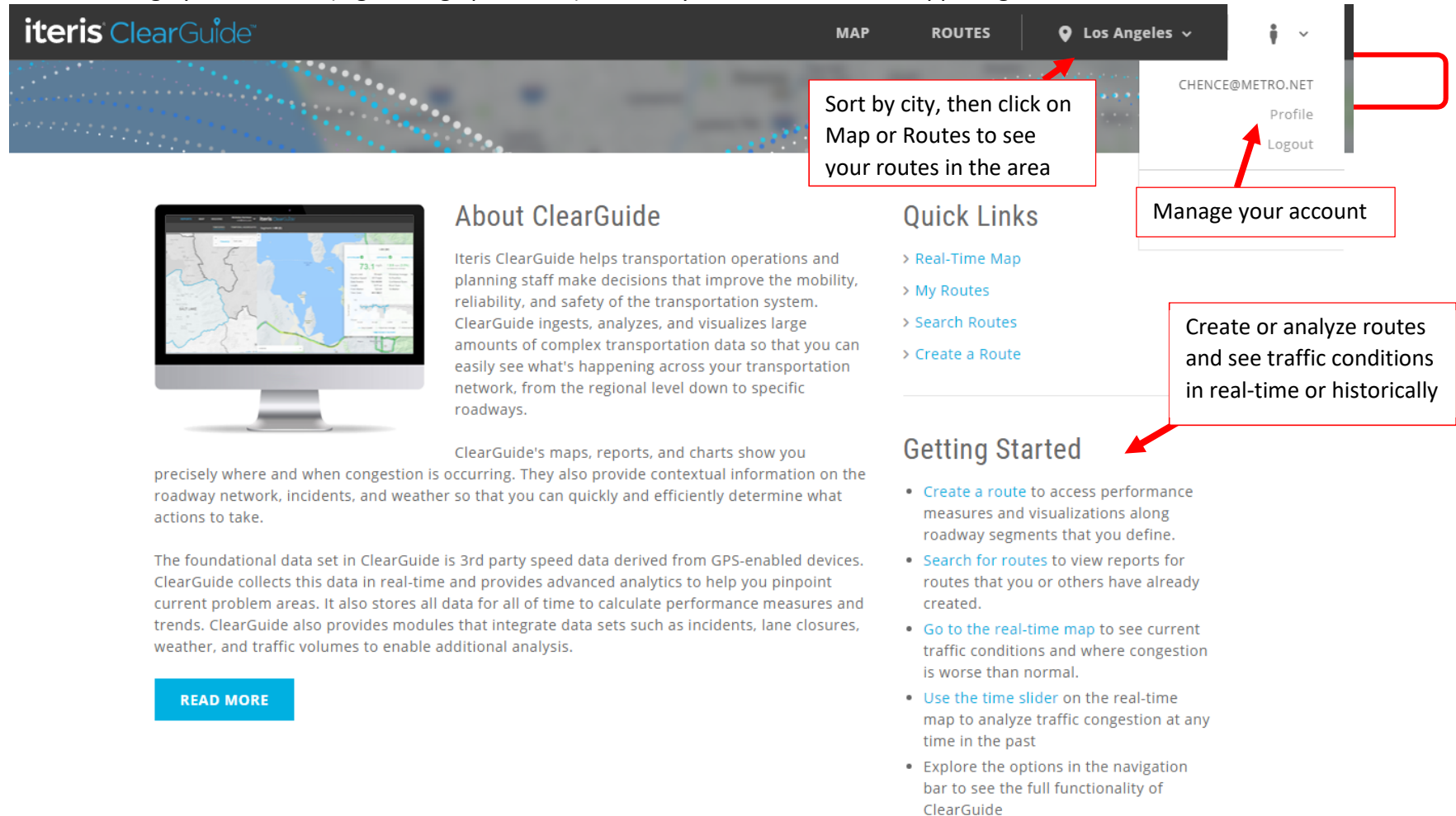
If you are a new user, please use this button to create your account. You will automatically be approved if you use your work email.

If it does not get automatically approved or a consultant needs access, please notify Eva or Celine.

If you had an existing iPeMS account, we have already migrated your account information, routes, and data over to ClearGuide. To activate your account please reset your password.

## 2. Home page

- Once you login, it takes you to the ClearGuide home page. You can always get to this home page by clicking on the ClearGuide logo in the upper left corner on the “Home” button at the top right.
- To manage your account (e.g., change password), click on your email link in the upper right corner.



The screenshot shows the ClearGuide home page. The header includes the 'iteris ClearGuide' logo, navigation tabs for 'MAP' and 'ROUTES', a location dropdown set to 'Los Angeles', and a user profile section for 'CHENCE@METRO.NET' with links for 'Profile' and 'Logout'. A red box highlights the user profile section with the annotation 'Manage your account'. A red arrow points to the 'MAP' and 'ROUTES' tabs with the annotation 'Sort by city, then click on Map or Routes to see your routes in the area'. The main content area features a 'Quick Links' section with links to 'Real-Time Map', 'My Routes', 'Search Routes', and 'Create a Route'. A red box highlights this section with the annotation 'Create or analyze routes and see traffic conditions in real-time or historically'. Below the 'Quick Links' is a 'Getting Started' section with a list of instructions. A red arrow points to the 'Getting Started' section. On the left, there is an image of a computer monitor displaying a map, with a 'READ MORE' button below it. The 'About ClearGuide' section describes the platform's capabilities.

**Sort by city, then click on Map or Routes to see your routes in the area**

**Manage your account**

**Create or analyze routes and see traffic conditions in real-time or historically**

**Quick Links**

- > [Real-Time Map](#)
- > [My Routes](#)
- > [Search Routes](#)
- > [Create a Route](#)

**Getting Started**

- [Create a route](#) to access performance measures and visualizations along roadway segments that you define.
- [Search for routes](#) to view reports for routes that you or others have already created.
- [Go to the real-time map](#) to see current traffic conditions and where congestion is worse than normal.
- [Use the time slider](#) on the real-time map to analyze traffic congestion at any time in the past
- Explore the options in the navigation bar to see the full functionality of ClearGuide

**About ClearGuide**

Iteris ClearGuide helps transportation operations and planning staff make decisions that improve the mobility, reliability, and safety of the transportation system. ClearGuide ingests, analyzes, and visualizes large amounts of complex transportation data so that you can easily see what's happening across your transportation network, from the regional level down to specific roadways.

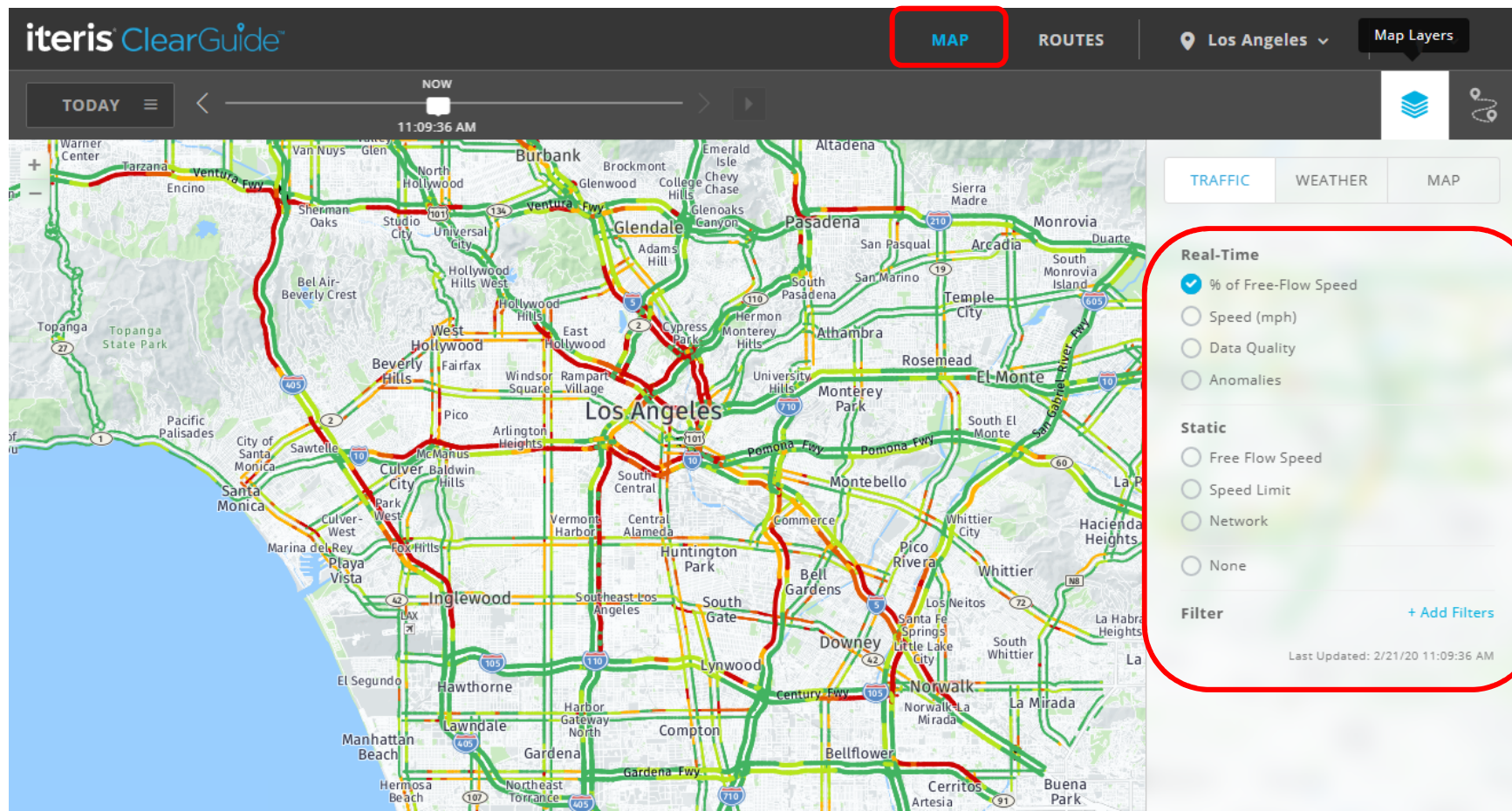
ClearGuide's maps, reports, and charts show you precisely where and when congestion is occurring. They also provide contextual information on the roadway network, incidents, and weather so that you can quickly and efficiently determine what actions to take.

The foundational data set in ClearGuide is 3rd party speed data derived from GPS-enabled devices. ClearGuide collects this data in real-time and provides advanced analytics to help you pinpoint current problem areas. It also stores all data for all of time to calculate performance measures and trends. ClearGuide also provides modules that integrate data sets such as incidents, lane closures, weather, and traffic volumes to enable additional analysis.

[READ MORE](#)

### 3. Map page

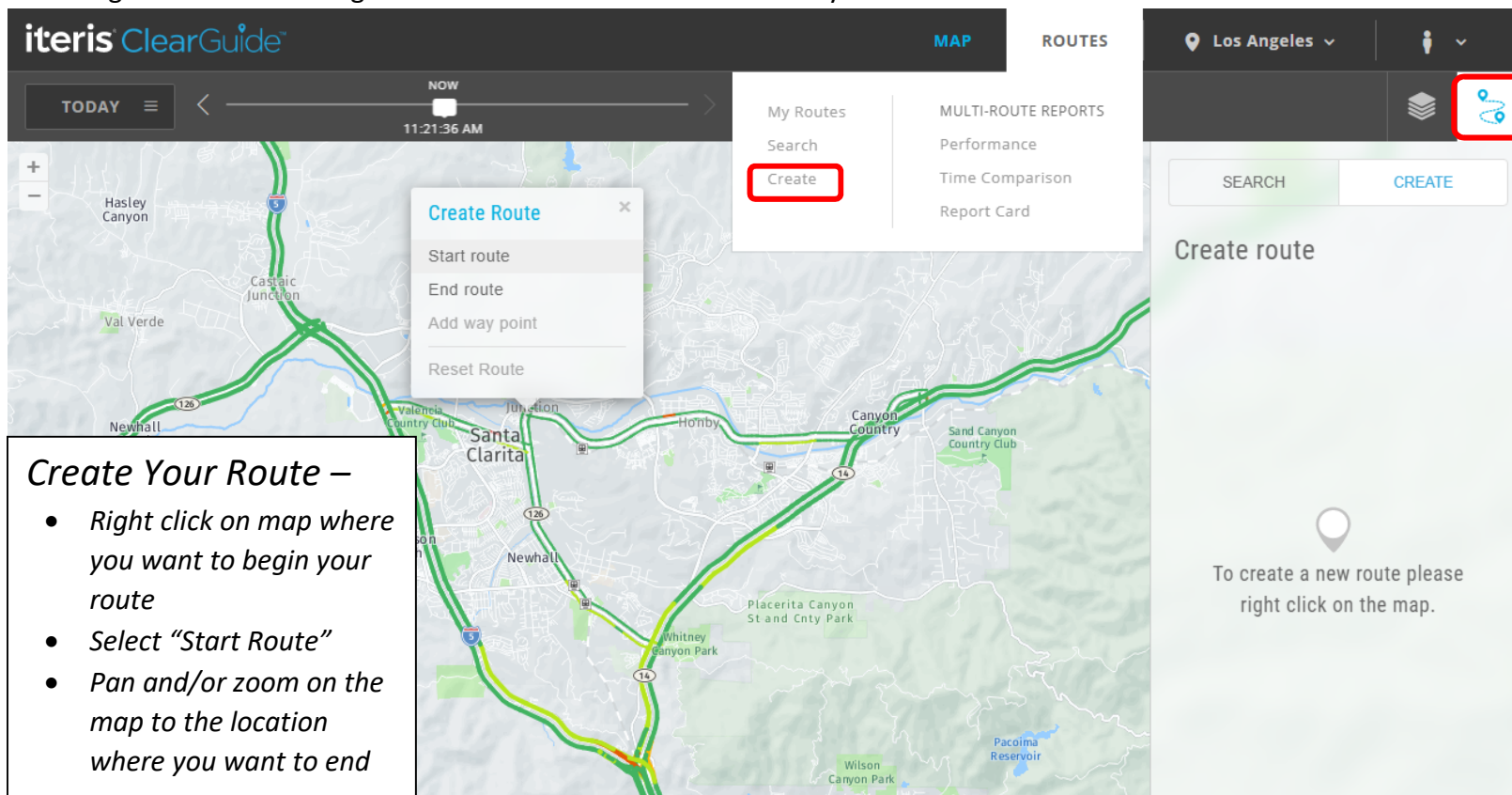
- From the ClearGuide Home page, click on the real-time map. It will take you to the Map page.
- You can click on the Map Layers button (top left corner) to view different traffic measures on the map view.
- Viewing Waze incidents is a feature that will be released in March 2020.





## 4. Route Creation

- You can access route creation through the Routes button on the top or by selecting the Routes Layer on the Map screen. Once you are in the Route Creation page, zoom in (by using your mouse to scroll or the +/- button in the upper left corner of map) and pan around (by pressing down on the mouse left clicker and moving map around) to your desired roadway segment(s).
- To create a new route, go the specific beginning point of your desired roadway and right click on your mouse at a specific roadway link; select “Start route” on the pop-up menu to start your route segment. Then go to the ending point of your desired roadway and right click on your mouse at a specific roadway link; select “End route” on the pop-up menu to end your route segment. Click on the green “Create Route” button to create your route.



**iteris ClearGuide**

**MAP** **ROUTES**

Los Angeles

My Routes

Search

**Create**

MULTI-ROUTE REPORTS

Performance

Time Comparison

Report Card

**Create Route**

Start route

End route

Add way point

Reset Route

**Create route**

SEARCH

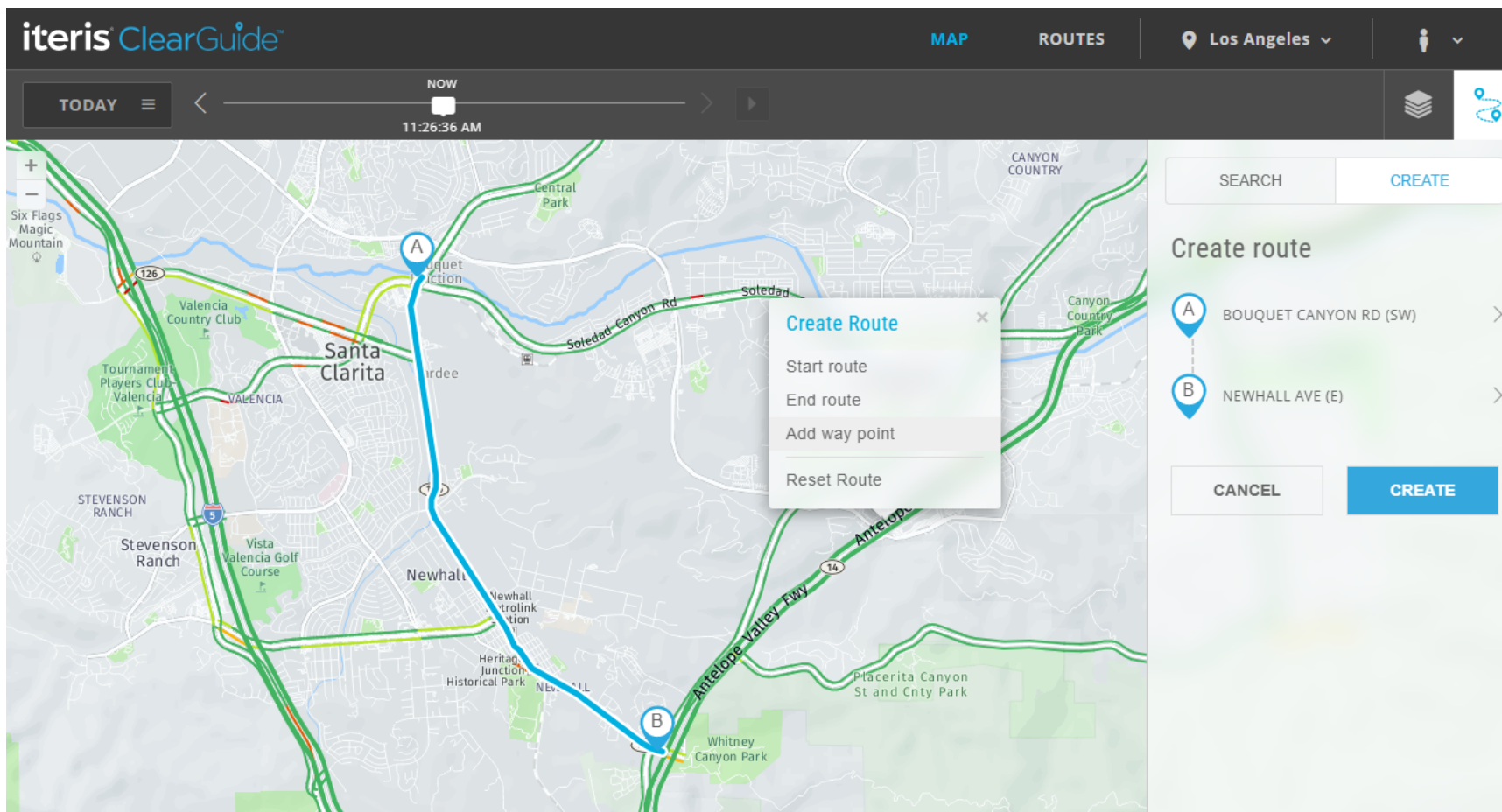
**CREATE**

To create a new route please right click on the map.

**Create Your Route –**

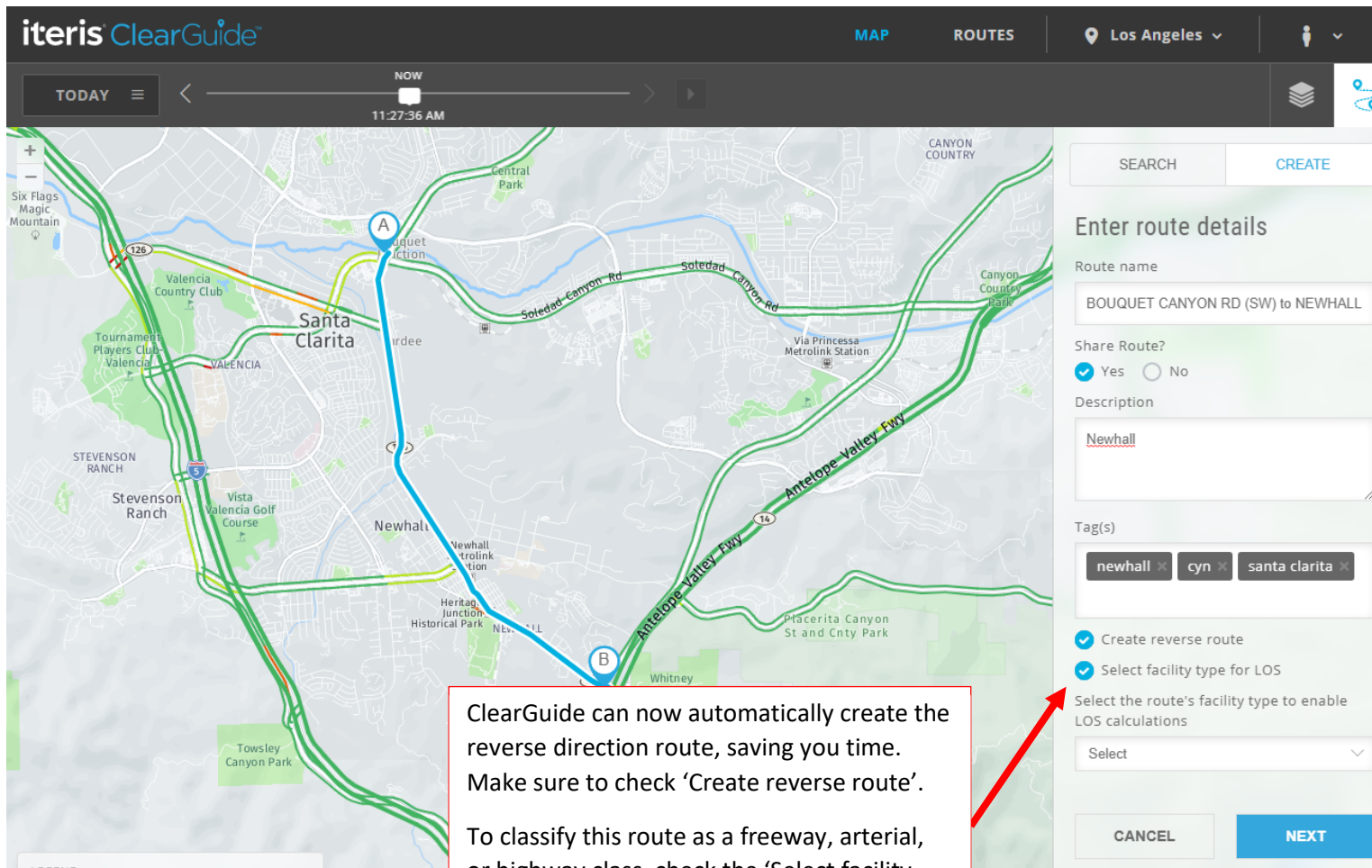
- Right click on map where you want to begin your route
- Select “Start Route”
- Pan and/or zoom on the map to the location where you want to end

You can add waypoints to the markers to adjust the route. If you are satisfied with your route creation and want to continue, click on the blue “Create Route” button on the page.



The screenshot displays the iteris ClearGuide web application interface. At the top, the header includes the iteris ClearGuide logo, navigation tabs for 'MAP' and 'ROUTES', a location dropdown set to 'Los Angeles', and a user profile icon. Below the header, a timeline bar shows 'TODAY' and a clock set to 'NOW 11:26:36 AM'. The main map area shows a route in blue between two points, A and B, in the Santa Clarita area. A 'Create Route' menu is open over the map, offering options: 'Start route', 'End route', 'Add way point', and 'Reset Route'. On the right side, a 'Create route' sidebar is visible, containing a 'SEARCH' and 'CREATE' button at the top. Below, it lists the selected points: 'A BOUQUET CANYON RD (SW)' and 'B NEWHALL AVE (E)'. At the bottom of the sidebar are 'CANCEL' and 'CREATE' buttons.

- ClearGuide will now auto-populate the Route name with the arterial and direction. You may also change the name.
- Select “Share route” - ‘Yes’ if you want others to see your route or ‘no’ if you want it to remain private.
- Provide a description, if desired.
- You can also give it a Tag(s) for reference. In this case, I used “Santa Clarita”, “Newhall”, and “Canyon” to identify it as being related to the road and the city
- Then click on the blue “Next” button.



The screenshot shows the iteris ClearGuide interface. On the left, a map displays a route from point A (Bouquet Canyon Rd) to point B (Newhall). The route is highlighted in blue. On the right, the 'Enter route details' form is visible. The form includes fields for 'Route name' (BOUQUET CANYON RD (SW) to NEWHALL), 'Share Route?' (Yes/No), 'Description' (Newhall), and 'Tag(s)' (newhall, cyn, santa clarita). There are also checkboxes for 'Create reverse route' and 'Select facility type for LOS'. A red arrow points to the 'Select facility type for LOS' dropdown menu.

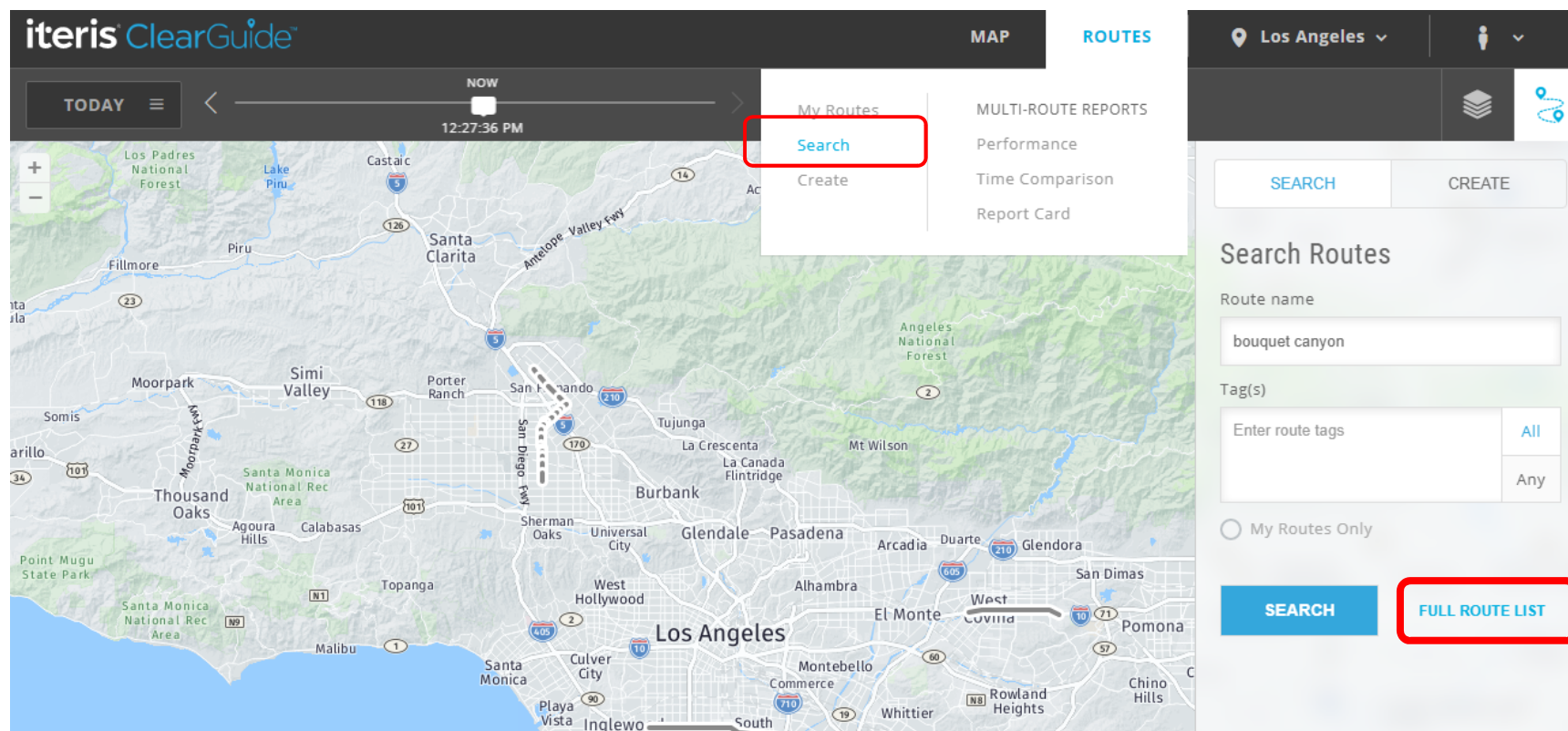
ClearGuide can now automatically create the reverse direction route, saving you time. Make sure to check 'Create reverse route'.

To classify this route as a freeway, arterial, or highway class, check the 'Select facility type for LOS' box.



## Finding and Choosing a Route (previously created by you or others)

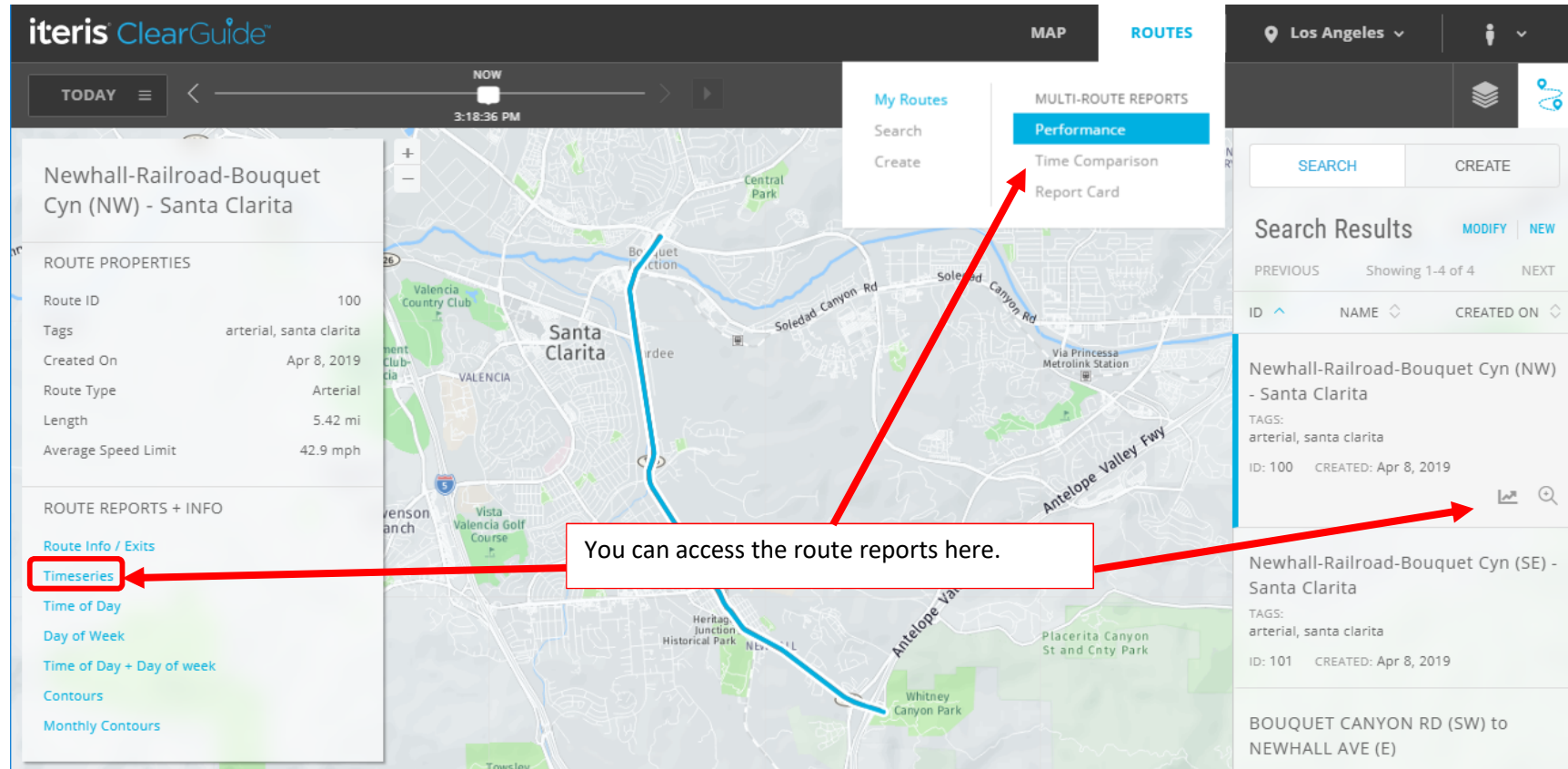
- Go to ClearGuide Home page. Click on the “Routes” button or “Search Routes”.
- You can search by route name or tags. To see all routes, select “Full Route List” in the bottom right corner.
- Search for Bouquet (Route ID number 100) and click on the 100 link. This was a route previously created. For this exercise, you can also do a “Keyword” or “Tags” search for “Santa Clarita” or “Newhall”, which is the location of this particular route.



The screenshot displays the iteris ClearGuide web application. The main map shows the Los Angeles area with various highways and landmarks. A dropdown menu is open over the map, showing options: "My Routes", "Search" (highlighted with a red box), and "Create".

On the right side, the "Search Routes" sidebar is visible. It includes a "SEARCH" button and a "CREATE" button. Below these, there are input fields for "Route name" (containing "bouquet canyon") and "Tag(s)" (containing "Enter route tags"). There are also radio buttons for "My Routes Only" and "Any". At the bottom of the sidebar, there are two buttons: "SEARCH" and "FULL ROUTE LIST" (highlighted with a red box).

## Route – Performance reports and Analysis reports



**iteris ClearGuide**

**MAP** **ROUTES**

**My Routes**  
Search  
Create

**MULTI-ROUTE REPORTS**  
**Performance**  
Time Comparison  
Report Card

**ROUTE PROPERTIES**  
Route ID: 100  
Tags: arterial, santa clarita  
Created On: Apr 8, 2019  
Route Type: Arterial  
Length: 5.42 mi  
Average Speed Limit: 42.9 mph

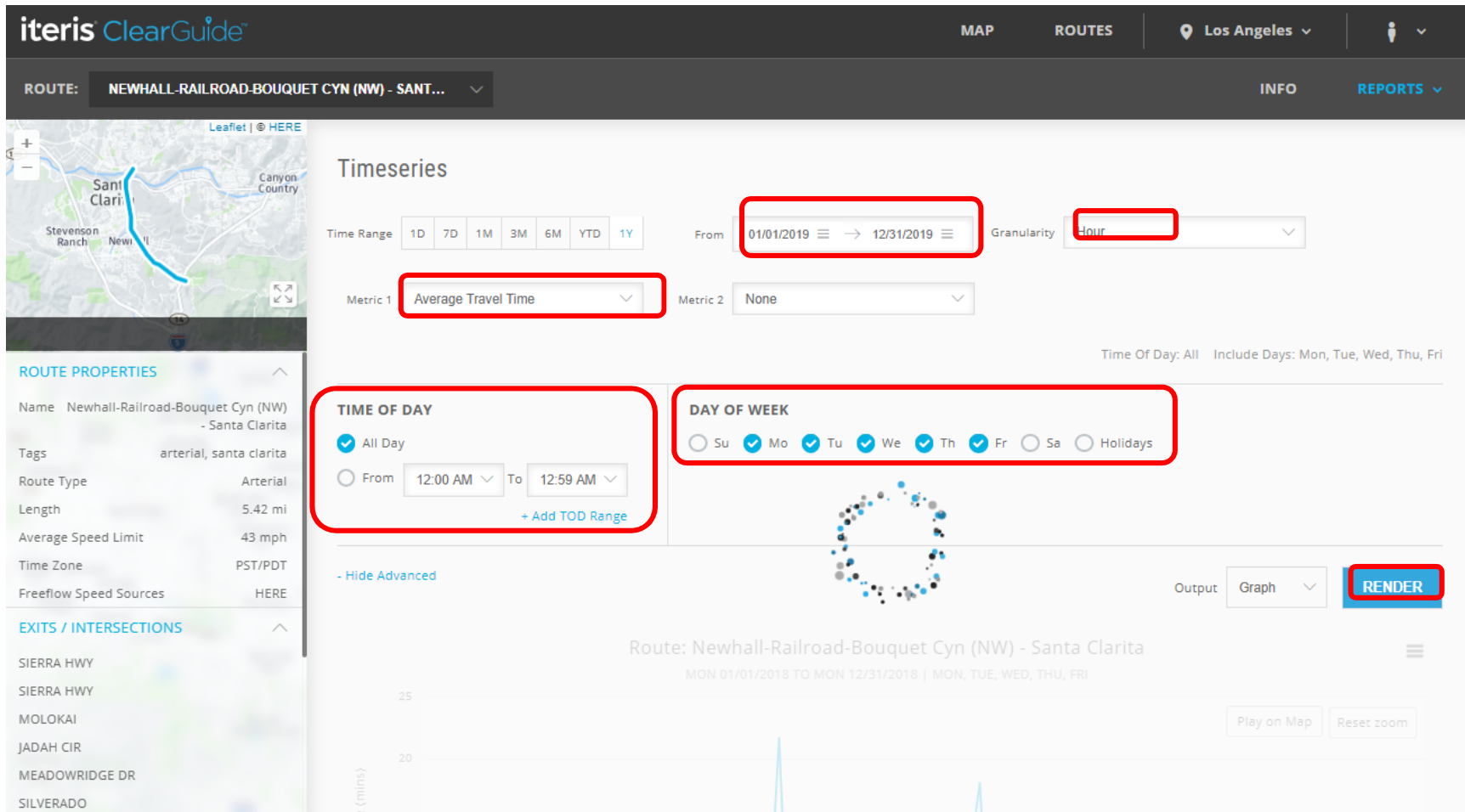
**ROUTE REPORTS + INFO**  
[Route Info / Exits](#)  
**[Timeseries](#)**  
[Time of Day](#)  
[Day of Week](#)  
[Time of Day + Day of week](#)  
[Contours](#)  
[Monthly Contours](#)

**Search Results** [MODIFY](#) [NEW](#)  
PREVIOUS Showing 1-4 of 4 NEXT  
ID NAME CREATED ON  
Newhall-Railroad-Bouquet Cyn (NW) - Santa Clarita  
TAGS: arterial, santa clarita  
ID: 100 CREATED: Apr 8, 2019  
Newhall-Railroad-Bouquet Cyn (SE) - Santa Clarita  
TAGS: arterial, santa clarita  
ID: 101 CREATED: Apr 8, 2019  
BOUQUET CANYON RD (SW) to NEWHALL AVE (E)

**You can access the route reports here.**

- Selecting the Route will show an overview including links to the Route Reports + Info Route Properties (route length, average speed limit, average freeflow speed, roadway type)
- Go to the “Route Reports + Info” section and select “Time Series”.

- Select a “From” date from January 1, 2019 through December 31, 2019, Granularity of “Hour”, and Metric of “Average Travel Time”
- Click on the “+ Advanced” option and select the “Day of Week” days of Monday through Friday (by de-selecting the “Su”, “Sa”, and “Holidays” options).
- Click on “Render” button. A loading circle will appear as the website processes your request.



**iteris ClearGuide** MAP ROUTES Los Angeles

ROUTE: **NEWHALL-RAILROAD-BOUQUET CYN (NW) - SANT...** INFO REPORTS

**Timeseries**

Time Range: 1D 7D 1M 3M 6M YTD **1Y** From: **01/01/2019** → **12/31/2019** Granularity: **Hour**

Metric 1: **Average Travel Time** Metric 2: **None**

Time Of Day: All Include Days: Mon, Tue, Wed, Thu, Fri

**TIME OF DAY**

☒ All Day

☐ From: 12:00 AM To: 12:59 AM + Add TOD Range

**DAY OF WEEK**

☐ Su ☒ Mo ☒ Tu ☒ We ☒ Th ☒ Fr ☐ Sa ☐ Holidays

**ROUTE PROPERTIES**

Name: Newhall-Railroad-Bouquet Cyn (NW) - Santa Clarita

Tags: arterial, santa clarita

Route Type: Arterial

Length: 5.42 mi

Average Speed Limit: 43 mph

Time Zone: PST/PDT

Freeflow Speed Sources: HERE

**EXITS / INTERSECTIONS**

SIERRA HWY

SIERRA HWY

MOLOKAI

JADAH CIR

MEADOWRIDGE DR

SILVERADO

**RENDER**

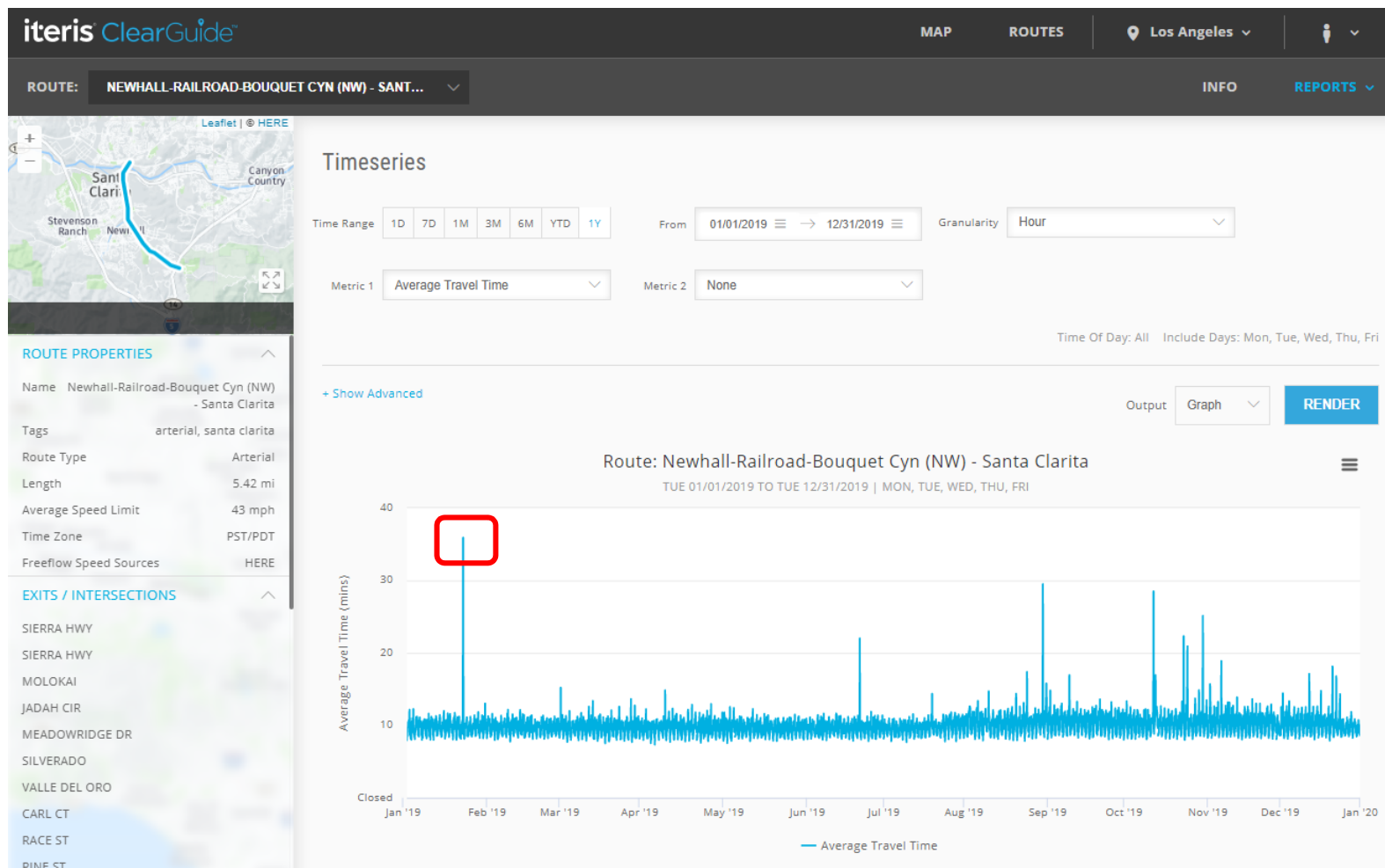
Route: Newhall-Railroad-Bouquet Cyn (NW) - Santa Clarita

MON 01/01/2018 TO MON 12/31/2018 | MON, TUE, WED, THU, FRI

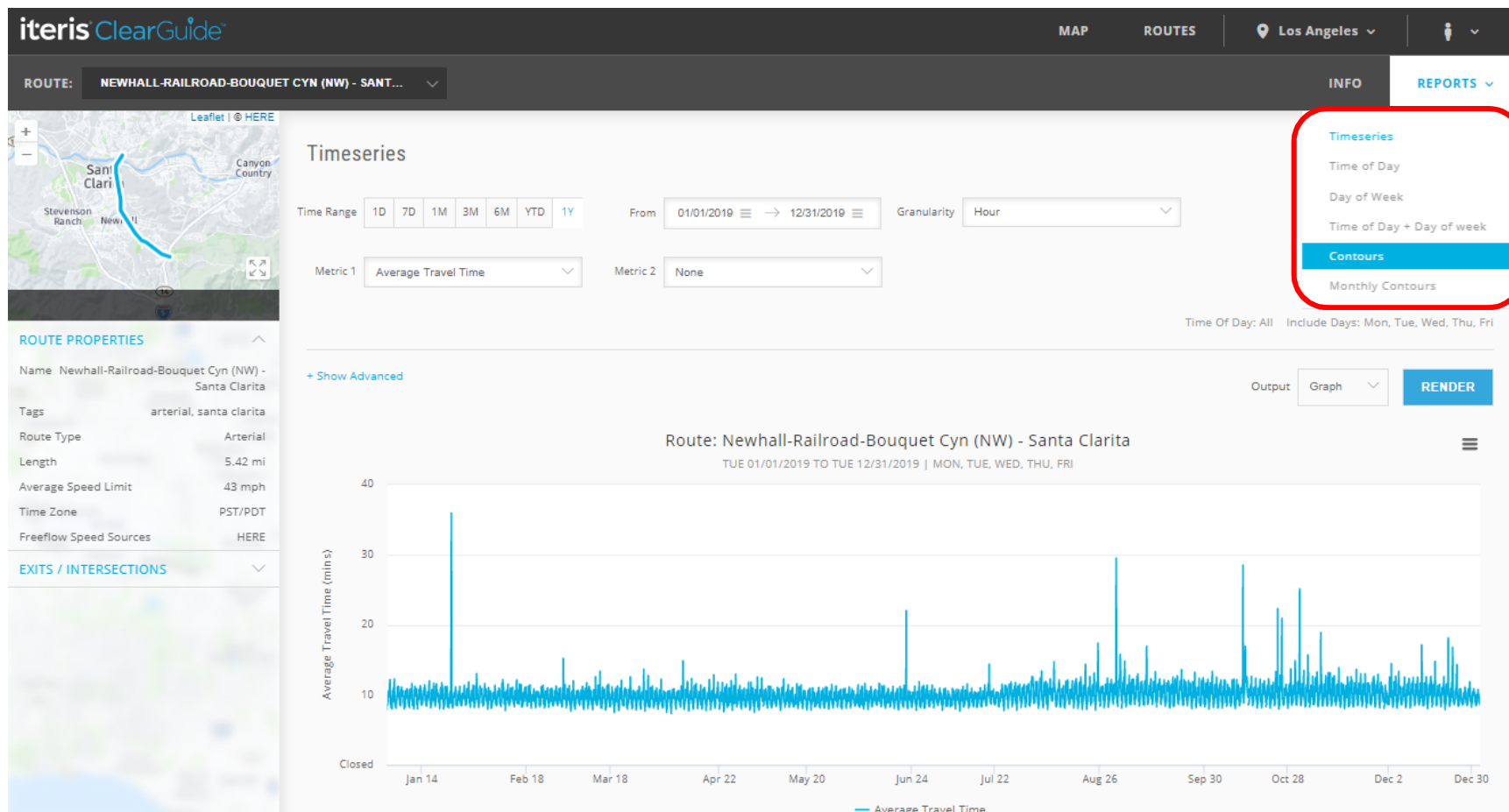
Play on Map Reset zoom



- Move mouse cursor to the first highest travel time point on the graph (01/23/2019 at 6:00PM) – you will see the small box below the graph that indicates the data, time, and average travel time (35.922 minutes). The graph shows that the typical peak travel times are around 10 minutes (and these typically occur during the PM peak period), but on 1/23/2019 it had taken over 30 minutes to traverse this corridor. If it's hard to see what date it occur, use your cursor to highlight that area to zoom in. What happened that day?

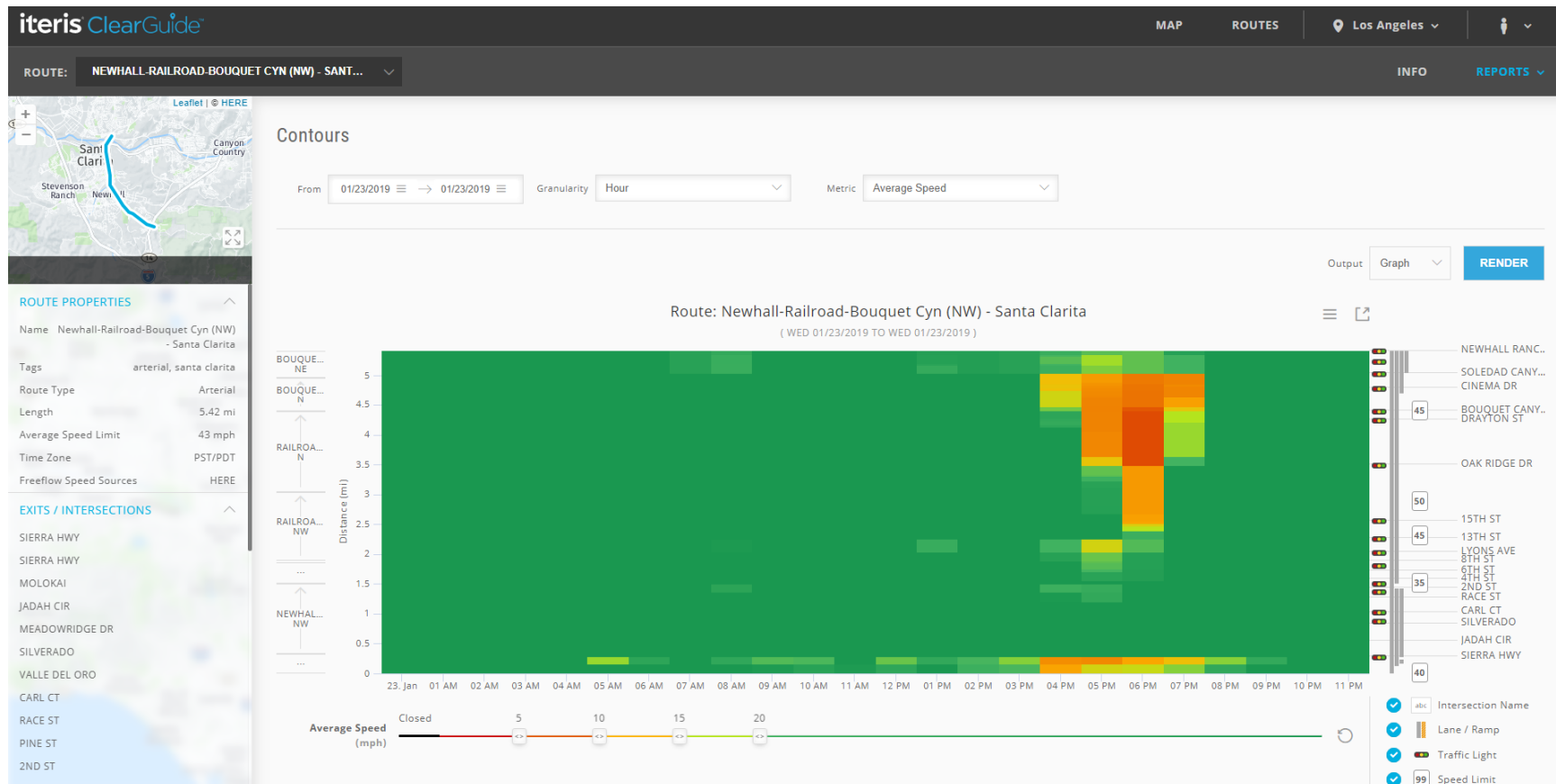


- Let's analyze this route for 1/23/2019. Go to the top right corner and select "Reports" and select "Contours"



- Select Date: 01/23/2019, Granularity of "hour" and Metric of "Speed"; then click on RENDER button.
- This is a speed contour plot of the route with the distance in as the vertical axis (or y-axis) with the time of day as the horizontal or x-axis. Traffic flows from the bottom of the plot to the top.
- Adjust the "Speed Threshold (mph)" to 5 mph red, 10 mph orange and so forth.

- Move the mouse cursor over the red blob. You will note that the popup gives you the time, link location, distance and speed at that time and location. Note that speeds in the very red areas are very low (<3mph) north of Oak Ridge Dr.
- This graph shows that traffic began to back up starting around 4:00 PM, but why?



An internet search reveals that on Wed 1/23/2019 in the afternoon there was a fatal collision involving an off-duty LA County Fire Captain and a Caltrans truck on the 14 freeway in Santa Clarita.



**iteris** ClearGuide™

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## 5. ClearGuide Functions and Features

- Real-time and historical processing (with algorithms and normalization) that includes:
  - aggregation of the 1-minute HERE data into 5-minutes, 15-minutes, hourly, and daily data
  - performance calculations
  - link and route congestion measures (delay, queues, speeds, travel times, bottlenecks)
- Visualizations of the detailed route reports:
  - Export tables and charts into MS Word or Excel (txt, xls, pdf)
  - Create multiple path travel routes (e.g., monitor detours, commutes)

## Detailed Route Reports

### Aggregates Reports

#### Timeseries

- Shows variables over time

#### Time of Day

- Shows the averages over the time of day
- What is the typical speed at 7am?
- This plot is used to review typical weekday traffic patterns.

#### Day of Week

- Review the difference in performance between the days of the week
- How is a Monday's performance different from a Wednesday?

### Analysis Reports

#### Spatial Congestion

- Congestion along the length of the route

#### Contours

- Visual heat map of congestion in time and space
- Understand where and when congestion is occurring

#### Monthly Contours

- Same as Contour plots, except there is a plot for each day in a month.
- Review congestion trends across a month
- Visually review the route reliability

### Congestion Cost Reports

#### User Delay Cost

- User delay cost, for passenger cars and trucks

#### Wasted Fuel Cost

- Wasted fuel cost due to congestion, for passenger cars and trucks, based on EPA models

Available only  
on iPeMs for  
now

- **HERE provides:**
  - A complete data set (speed data for all links for all time periods, no holes)
  - An indication of data quality for each link for each time period. The more actual, currently observed probes behind the data, the higher the (quality) confidence score.
  - Link-based data (instead of point-based detector data)
    - Not measuring every vehicle but a sample of vehicles
    - Data not by lane by lane but in aggregate for a roadway direction
    - Provided on all roadways covered by HERE that are contracted by the State, which includes most major arterials
  - Data is in real-time and continuous, archived from start of system (2018)
- **Features that are only available in iPeMs for now:**
  - Bottlenecks (freeway) : identify bottleneck locations
  - User Delay Cost and Wasted Fuel Reports: for routes that have volume profiles
  - Animation:
    - animation feature to the time slider (“play back” speed conditions on any day in past)
    - replay the map and see what happened over time visually
    - show bottlenecks in the past to see the impact of bottlenecks (future add on)
  - Favorites:
    - save an animation, share it, replay it, download it as a video file and send electronically
  - Map Layers:
    - anomalies show how traffic compares in real-time to normal or compared to a percentile range of past speeds
    - data quality layer shows the confidence scores of the data
    - bottlenecks layer (future add on)
    - base maps show aerial and map views
  - Alerts (by email): for monitoring anomalies in traffic in real-time, alerts provide threshold-based alerting to specify and email users when issues occur and clear
- **What ClearGuide and iPeMs is not:**
  - Cannot do vehicle classification, distinguish transit vehicles, do vehicle occupancies, or analyze pedestrian or bicycle impacts
  - Cannot do lane by lane, any turn lanes, intersection analysis, signal timing, or accident/incident data



## 6. ClearGuide potential uses

Develop a state of the  
system arterial report  
for your region

Do a Before/After  
study

Evaluate  
response to  
an event

Access data  
quickly



Prioritize projects

Conduct a  
Corridor Study

Address Council  
or stakeholder  
technical  
questions

Justify need for  
upgrading a signal  
system

## Example Exercise (on your own) – instructions:

- Find and choose Route 131 (Artesia Bl (WB)- Bellflower). Pro Tip: From the ClearGuide map, click on the “Route” button click “SEARCH” and do a keyword search on the word “Artesia” or “Bellflower”.
- Repeat Step 7 (page 18) from above in this presentation, **BUT** select the “Time of Day” option from the ROUTE REPORTS + INFO and select **Time of Day**
  - Pick the date range from 01/01/2019 through yesterday’s date
  - Select ‘Average Travel Time’ as the “Metric”
  - Select ‘Hour’ as the Granularity
  - Select “Show More” and select only **non-holiday weekdays (Mo-Fr)**
  - For Statistics select “Median (5<sup>th</sup>, 95<sup>th</sup>)”.
- Answer these questions:
  1. What is the peak hour for travel?
  2. What is the median travel time during that hour?
  3. What is the 95<sup>th</sup> percentile travel time during that hour (i.e., the green line)?
- Now go to Reports (Top right) > Time Series from the pull-down menus at the top of the page
- Answer the question:
  4. What date and hour of the day did the slowest travel time occur? What was the slowest travel time?
- Now go to Reports > Contours for the date that was identified in the question #5 and adjust the speed thresholds to 5mph intervals (5mph, 10mph, 15mph, and 20mph)
  5. Where and when did the slowest speeds occur on the selected date found in #5? (Note: These would be the darkest red color)
  6. For this general location, at what cross street did this bottleneck begin? (Note: traffic flows from the bottom of the plot to the top, so the bottleneck would be where the red or yellow colors end and green, faster speeds begin).

7. How long did this bottleneck last (from time, to time)?
8. What do you think influenced (possibly caused) this bottleneck?

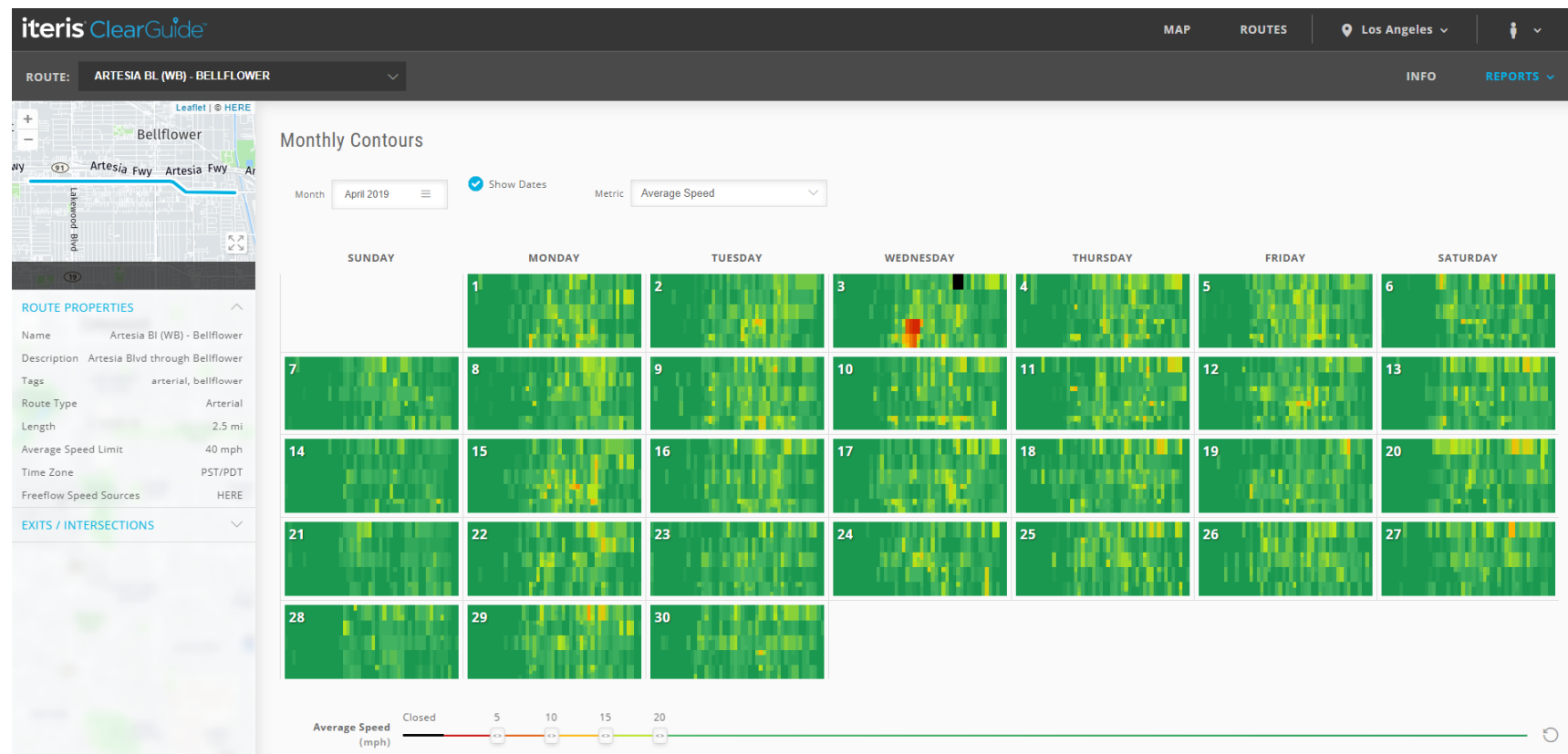
## 7. ClearGuide Advanced Features

- Monthly Contours
- User Delay Cost and Fuel Cost (future metric on reports)
- Top bottlenecks (future add on)
- Reliability Index (future add on)
- Map Animation (Speed) & Favorites
- Alerts (future add on to be released in March 2020)
- Area-wide Performance Overview
  - Route Performance Reports (overview of multiple routes performance, including arterial LOS)
  - Report Card (overview of travel times and speeds for AM, Midday, and PM Peaks)
  - Time Comparison (compare two different date ranges of performance for multiple routes)



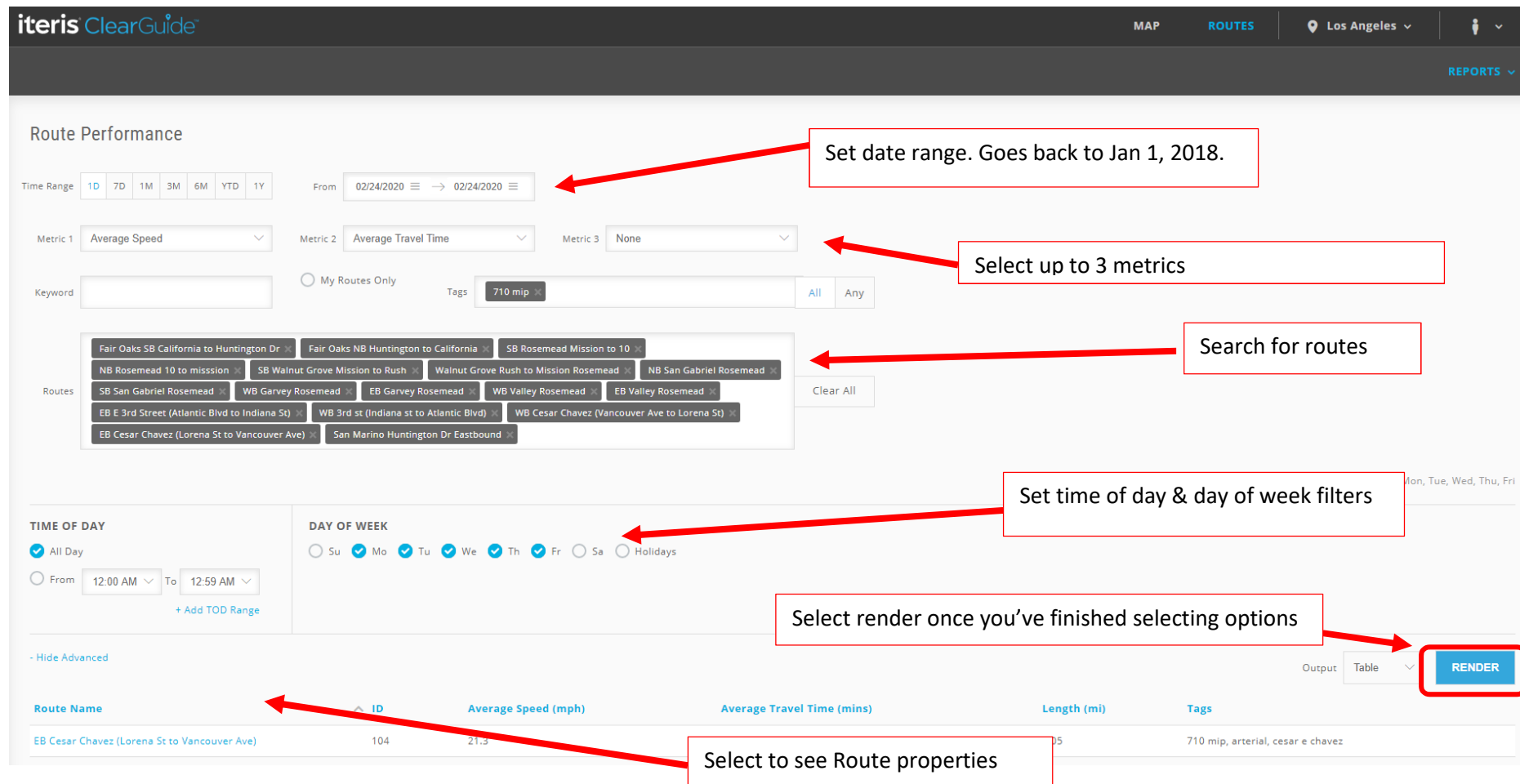
## Monthly Contours

Reports > Monthly Contours (Use Artesia BI Example from above)



## Area-Wide Performance Overview

- **Route Performance Reports:** Routes > Performance
- Click on “SHOW ADVANCED” to select times of day and days of week to include in the reports



The screenshot shows the iteris ClearGuide Route Performance interface. Red arrows point to various features with explanatory text boxes:

- Set date range. Goes back to Jan 1, 2018.** Points to the "From" date field.
- Select up to 3 metrics** Points to the Metric 1, 2, and 3 dropdown menus.
- Search for routes** Points to the Keyword search field.
- Set time of day & day of week filters** Points to the TIME OF DAY and DAY OF WEEK filter sections.
- Select render once you've finished selecting options** Points to the RENDER button.
- Select to see Route properties** Points to the first row of the route performance table.

The interface includes the following elements:

- Header:** iteris ClearGuide, MAP, ROUTES, Los Angeles, and a user profile icon.
- Route Performance Section:**
  - Time Range:** 1D, 7D, 1M, 3M, 6M, YTD, 1Y.
  - From:** 02/24/2020 → 02/24/2020.
  - Metric 1:** Average Speed, **Metric 2:** Average Travel Time, **Metric 3:** None.
  - Keyword:** Search field.
  - My Routes Only:** Radio button.
  - Tags:** 710 mip, All, Any.
  - Routes:** List of route segments with expand/collapse icons.
  - Clear All:** Button.
- TIME OF DAY:**
  - All Day:** Selected.
  - From:** 12:00 AM, **To:** 12:59 AM.
  - + Add TOD Range:** Link.
- DAY OF WEEK:**
  - Su:** Unselected, **Mo:** Selected, **Tu:** Selected, **We:** Selected, **Th:** Selected, **Fr:** Selected, **Sa:** Unselected, **Holidays:** Unselected.
- Output:** Table, RENDER button.
- Table:**

Route Name	ID	Average Speed (mph)	Average Travel Time (mins)	Length (mi)	Tags
EB Cesar Chavez (Lorena St to Vancouver Ave)	104	21.5		95	710 mip, arterial, cesar e chavez

## Area-Wide Performance Overview

- Report Card: Routes> Report Card

Route Name	ID	Average Speed AM (mph)	Average Speed MD (mph)	Average Speed PM (mph)	Average Travel Time AM (mins)	Average Travel Time MD (mins)	Average Travel Time PM (mins)	Length (mi)	Tags
EB Cesar Chavez (Lorena St to Vancouver Ave)	104	21.3	18.5	17.6	5.99	6.73	7.02	2.05	710 mip, arterial, cesar e chavez
EB E 3rd Street (Atlantic Blvd to Indiana St)	110	17.4	15.6	15	8.09	8.78	9.13	2.28	710 mip, arterial
EB Garvey Rosemead	167	22.9	21.1	19.4	5.61	6.06	6.6	2.12	710 mip, arterial
EB Valley Rosemead	165	22.5	17.9	18.1	3.03	3.75	3.67	1.1	710 mip, arterial
Fair Oaks NB Huntington to California	187	19.4	18.8	18.1	6.82	6.89	7.2	2.14	710 mip
Fair Oaks SB California to Huntington Dr	188	22.9	19.7	18	5.9	6.63	7.27	2.17	710 mip
NB Rosemead 10 to mission	173	20.8	18.4	16.1	2.05	2.25	2.61	0.68	710 mip, arterial
NB San Gabriel Rosemead	170	25.2	22	16.9	3.07	3.37	4.47	1.22	710 mip, arterial
San Marino Huntington Dr Eastbound	47	28.8	26.6	25.6	6.32	6.75	6.98	2.97	710 mip, arterial
SB Rosemead Mission to 10	174	15.9	13.3	13.8	3.35	3.88	3.73	0.85	710 mip, arterial



## Area-Wide Performance Overview

- **Time Comparison:** Routes> select Time Comparison
- Click on “SHOW ADVANCE” to select times of day and days of week) to include in the reports

### Route Time Comparison

Range 1
02/28/2019 → 02/28/2019
Range 2
02/01/2020 → 02/24/2020

Metric
Average Travel Time

Keyword
☐ My Routes Only
Tags
710 mip
All Any

Routes

Fair Oaks SB California to Huntington Dr x
Fair Oaks NB Huntington to California x
SB Rosemead Mission to 10 x
NB Rosemead 10 to mission x
SB Walnut Grove Mission to Rush x
Walnut Grove Rush to Mission Rosemead x
NB San Gabriel Rosemead x
SB San Gabriel Rosemead x
WB Garvey Rosemead x
EB Garvey Rosemead x
WB Valley Rosemead x
EB Valley Rosemead x
EB E 3rd Street (Atlantic Blvd to Indiana St) x
WB 3rd st (Indiana st to Atlantic Blvd) x
WB Cesar Chavez (Vancouver Ave to Lorena St) x
EB Cesar Chavez (Lorena St to Vancouver Ave) x
San Marino Huntington Dr Eastbound x

Clear All

Time Of Day: All
Include Days: Mon, Tue, Wed, Thu, Fri

+ Show Advanced
Output
Table
RENDER

Route Name	ID	2/28-2/28	2/1-2/24	Diff	% Diff	Length (mi)	Tags
EB Cesar Chavez (Lorena St to Vancouver Ave)	104	6.38	6.05	-0.33	-5.16%	2.05	710 mip, arterial, cesar e chavez
EB E 3rd Street (Atlantic Blvd to Indiana St)	110	8.37	7.88	-0.49	-5.87%	2.28	710 mip, arterial
EB Garvey Rosemead	167	5.87	5.44	-0.42	-7.25%	2.12	710 mip, arterial
EB Valley Rosemead	165	2.98	3.05	0.07	2.39%	1.1	710 mip, arterial
Fair Oaks NB Huntington to California	187	5.9	6.04	0.14	2.35%	2.14	710 mip
Fair Oaks SB California to Huntington Dr	188	5.74	5.87	0.13	2.18%	2.17	710 mip