

An aerial photograph of Carson City, Nevada, showing a mix of urban development and green spaces. In the background, there are rolling hills and mountains under a sky with light, wispy clouds. The city is spread across a valley, with a prominent road or highway curving through the lower right portion of the frame.

# TRAFCC

## Transportation Resource Advisory Forum for Carson City

August 21, 2018

# Overview

- Welcome and Introductions
- Ongoing Projects
- FY 2019 – FY 2023 Pavement Management Plan
- Fiscal Year 2019, District 1, Pavement Projects Under Evaluation
- Wrap-up and Future Topics

# Downtown Curry Street



- Streetscape and utility project
- Replace gas lights and power poles
- \$4M construction cost
- May – Oct construction timeline



# Construction Limits



# Construction Schedule

Task Name	Duration	Start	Finish	Q2		Q3		Q4			
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<input type="checkbox"/> Downtown Curry Streetscape Project- Construction	115d	05/14/18	10/19/18								
Water	55d	05/14/18	07/27/18								
Sanitary Sewer/ Storm Drain	58d	05/28/18	08/15/18								
Demo Curb & Gutter and Sidewalk	17d	08/06/18	08/28/18								
Install Curb & Gutter and Sidewalk	19d	08/09/18	09/04/18								
Install Irrigation/ Electrical	20d	08/06/18	08/31/18								
Pulverize Roadway/ Regrade/ AC Paving	21d	09/03/18	10/01/18								
Landscape	15d	10/01/18	10/19/18								
Telegraph Intersection	5d	10/01/18	10/05/18								
Roadway Striping/Signs	10d	10/01/18	10/12/18								

# Water/Sewer Installation



# Water/Sewer Installation



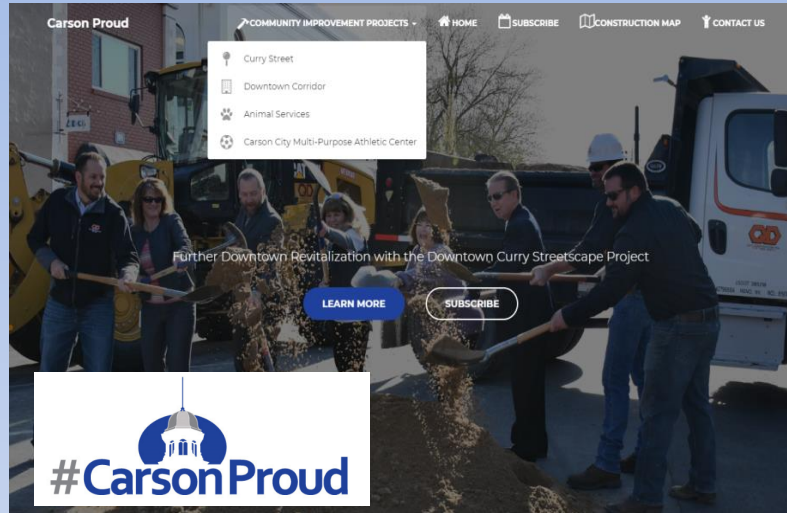
# Water/Sewer Installation



# Demo Curb & Gutter and Sidewalk



# Construction News & Updates

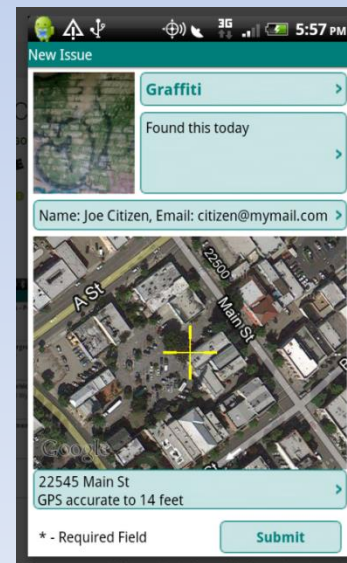
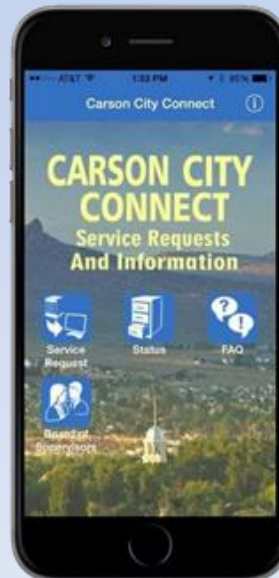


CarsonProud.com

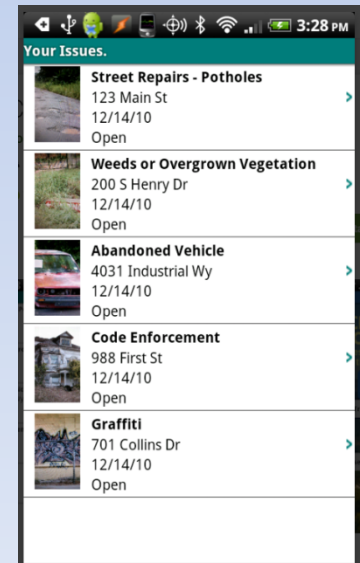
- CarsonProud.com and social media
- Construction Hotline: 775-283-4794
- Construction Map
- Carson City Connect
- Dan Stucky, City Engineer [dstucky@carson.org](mailto:dstucky@carson.org)  
775-283-7084



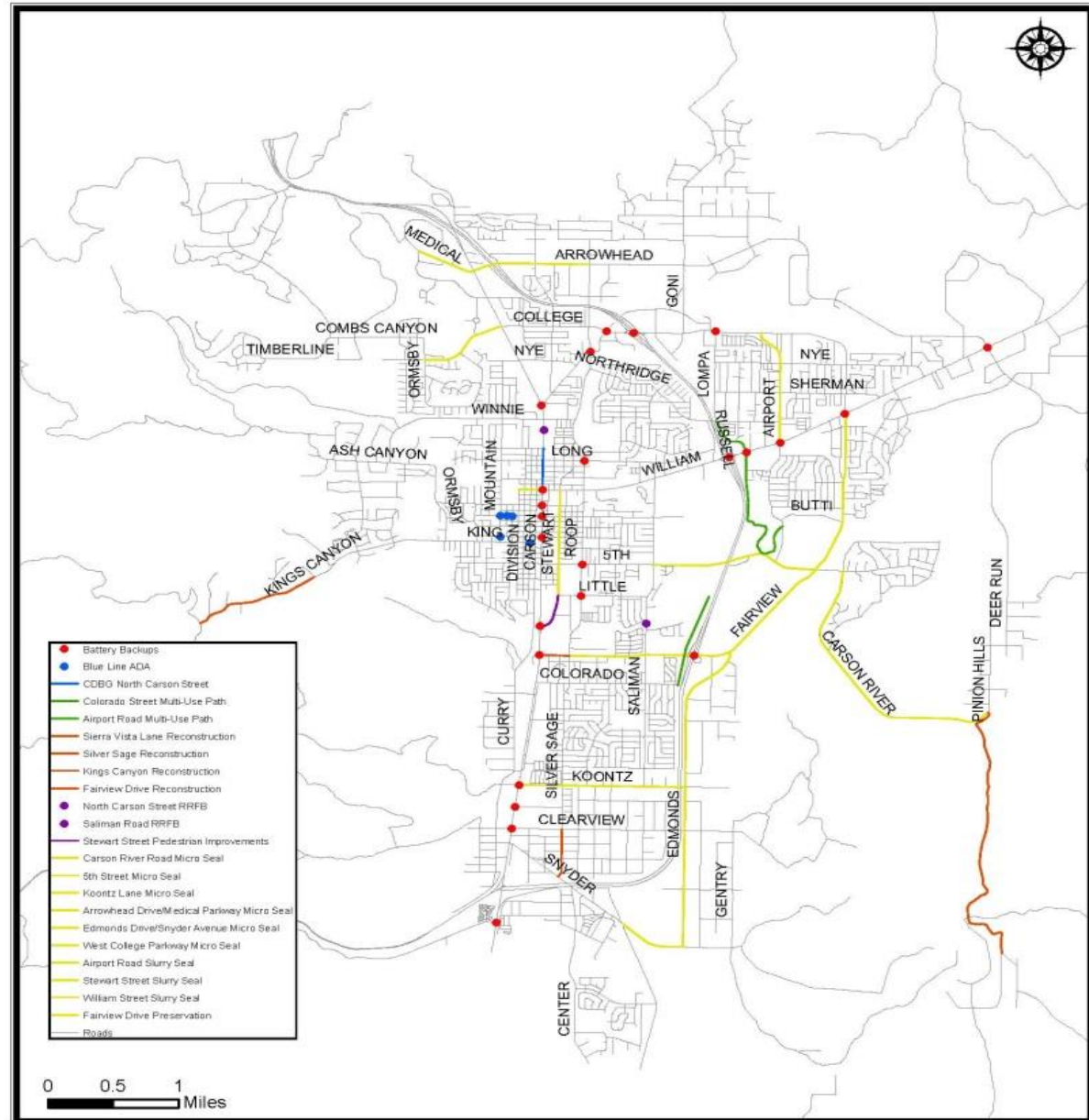
Construction Map



Carson City Connect



# Fiscal Year 2018 Transportation Capital Projects



## Fiscal Year 2018 Capital Projects Carson City, NV



Carson City, NV makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.  
Source: sde\_carson.sde/Road Facilities

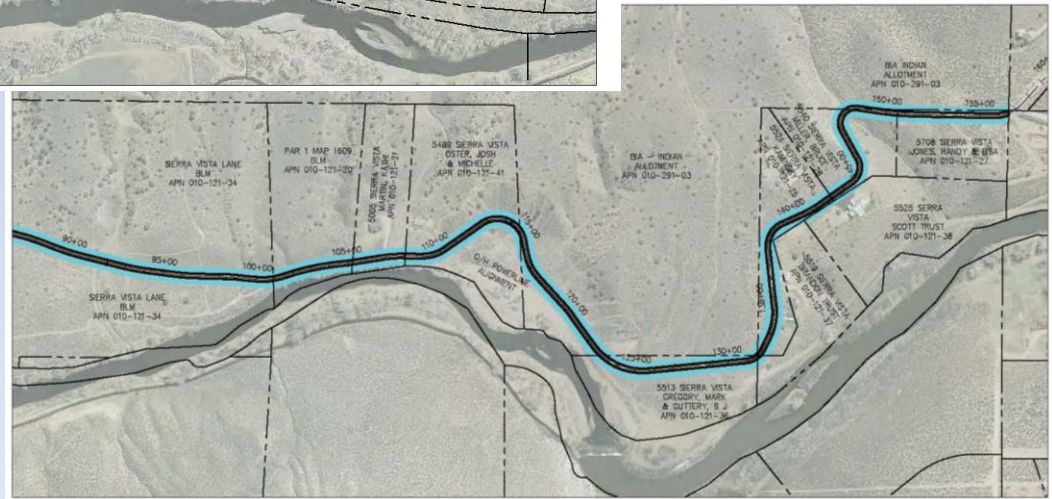
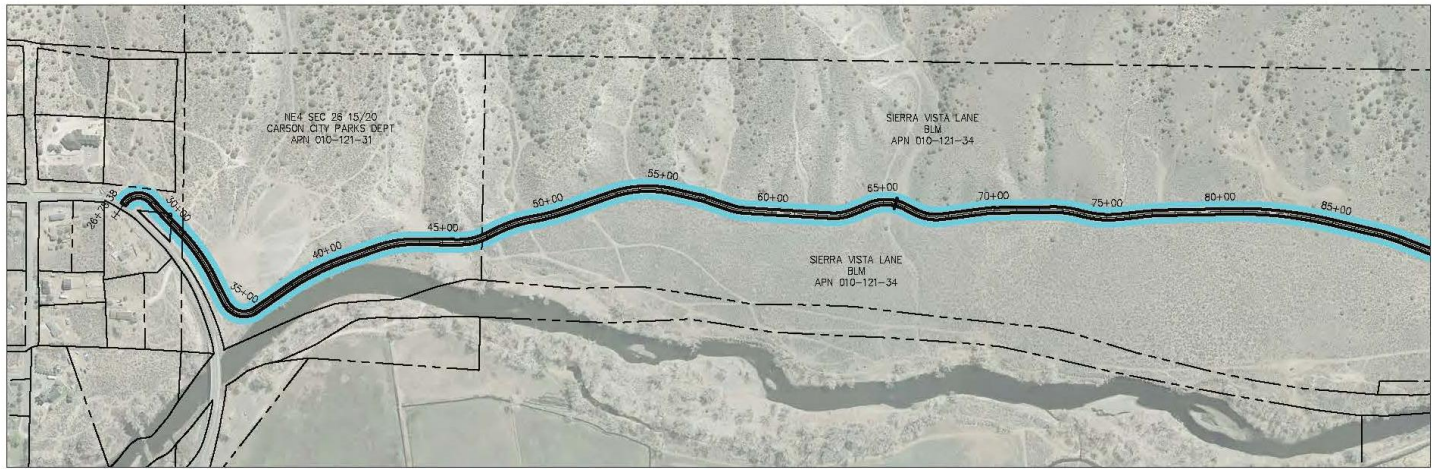
# Fairview Drive Preservation Project

- Total Estimated Cost: ~\$400,000  
(95% federally funded)
- Status: Wide crack repairs, patching, and the widening near Butti Way was completed in July and the slurry was completed in August

# Sierra Vista Lane Reconstruction Project

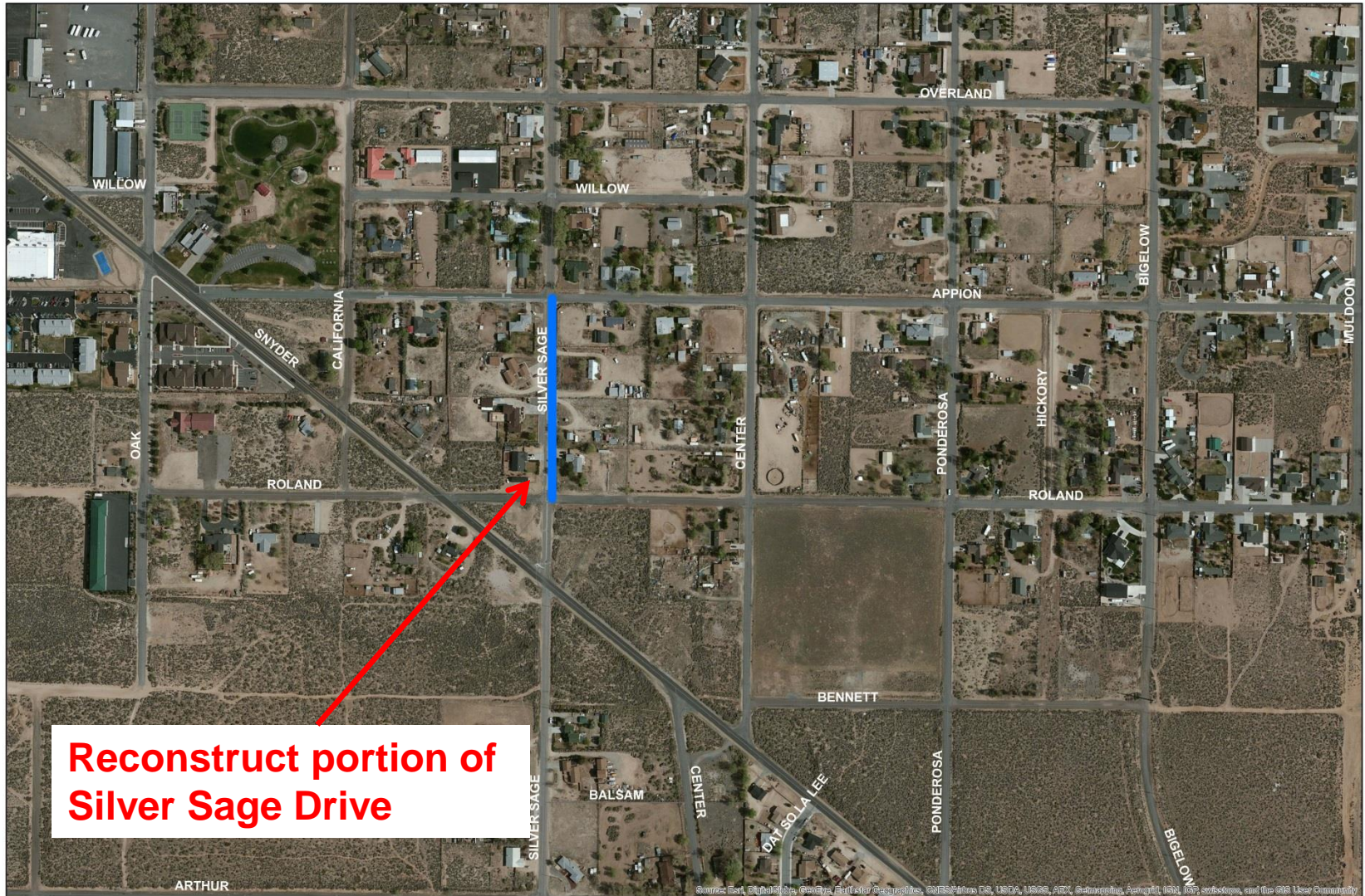
- Total Estimated Cost: \$4,553,578
- Status: Project is complete. A few minor outstanding items are still in progress

# Sierra Vista Lane Reconstruction



# Silver Sage Drive Reconstruction

Total Estimated Cost: \$748,000 (95% federally funded)



# Silver Sage Drive Reconstruction



# CDBG North Carson Street ADA Improvements

- Total Estimated Cost: \$227,182 (100% federally funded)
- Status: Construction was completed the week of July 23<sup>rd</sup>

# Battery Backup Improvements

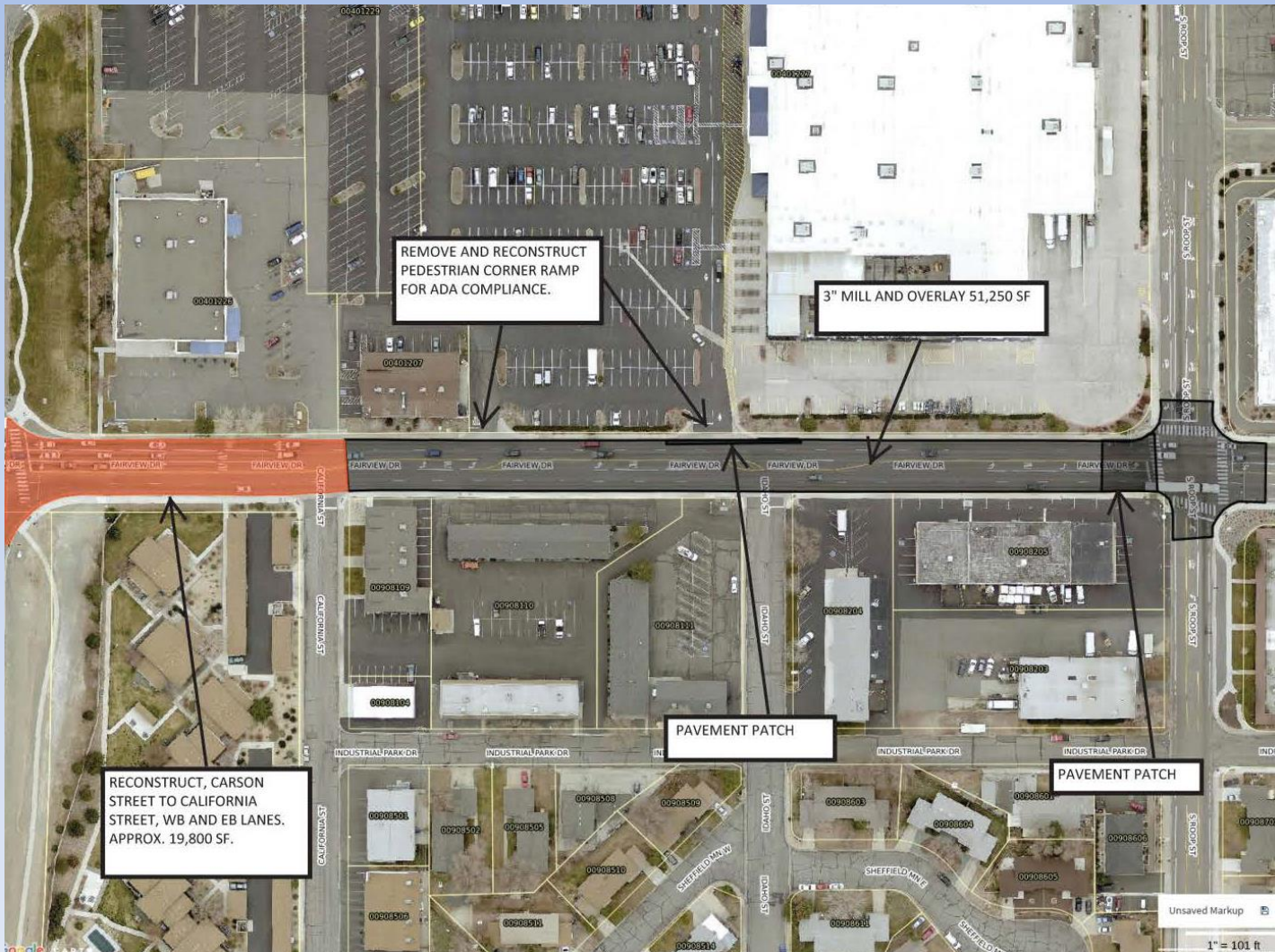
- Total Estimated Cost:\$153,703
- Status: Battery backup installation is 92% complete and retro-reflective back-plate installation is 95% complete





# Fairview Drive Reconstruction Project

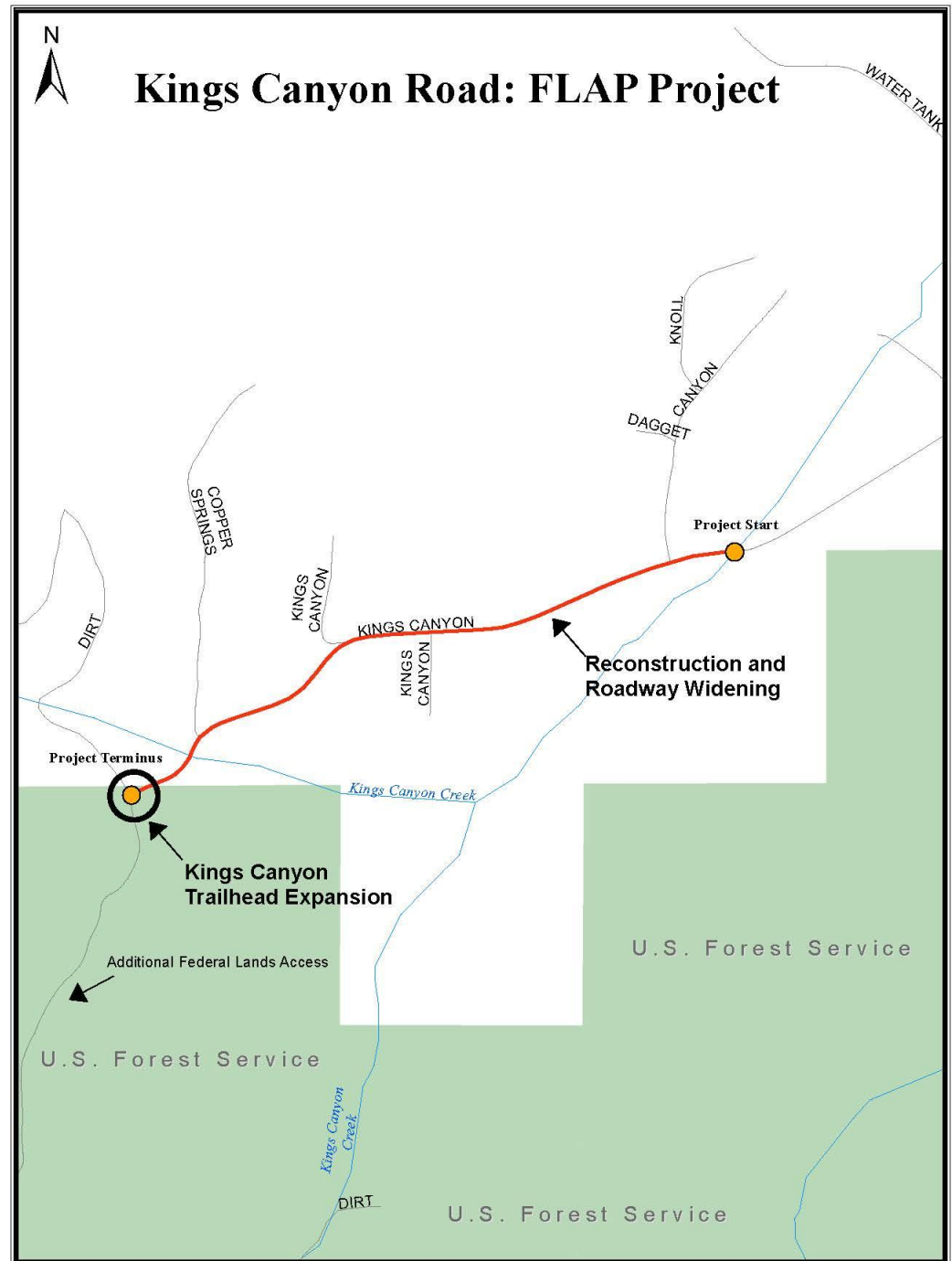
Estimated Cost: \$593,000 (95% federally funded, STBG)



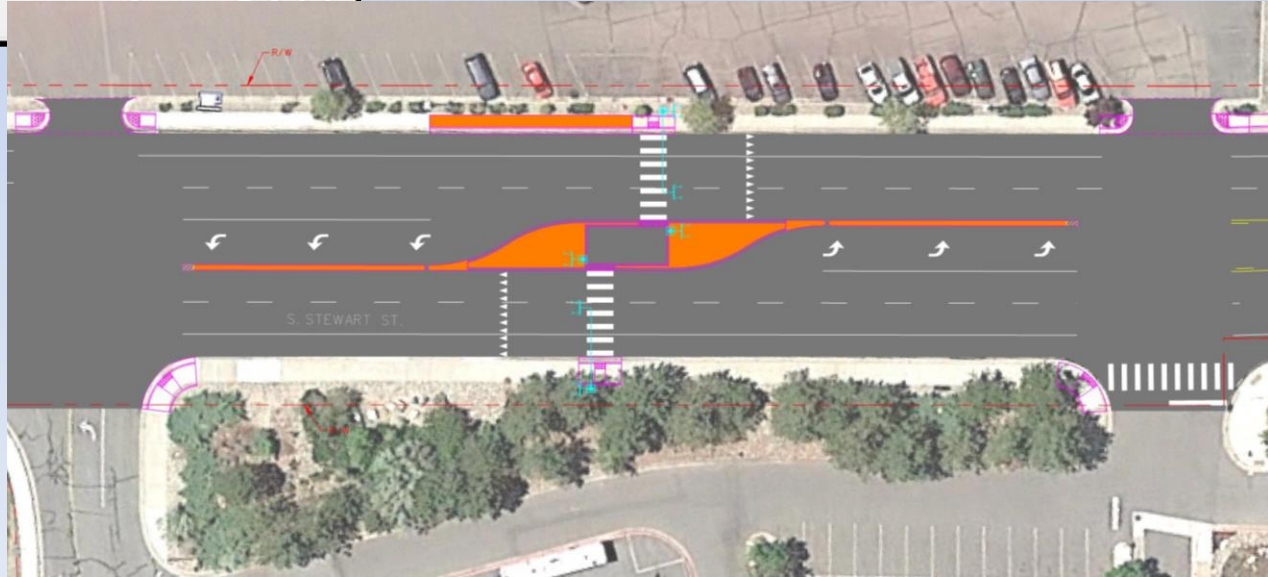
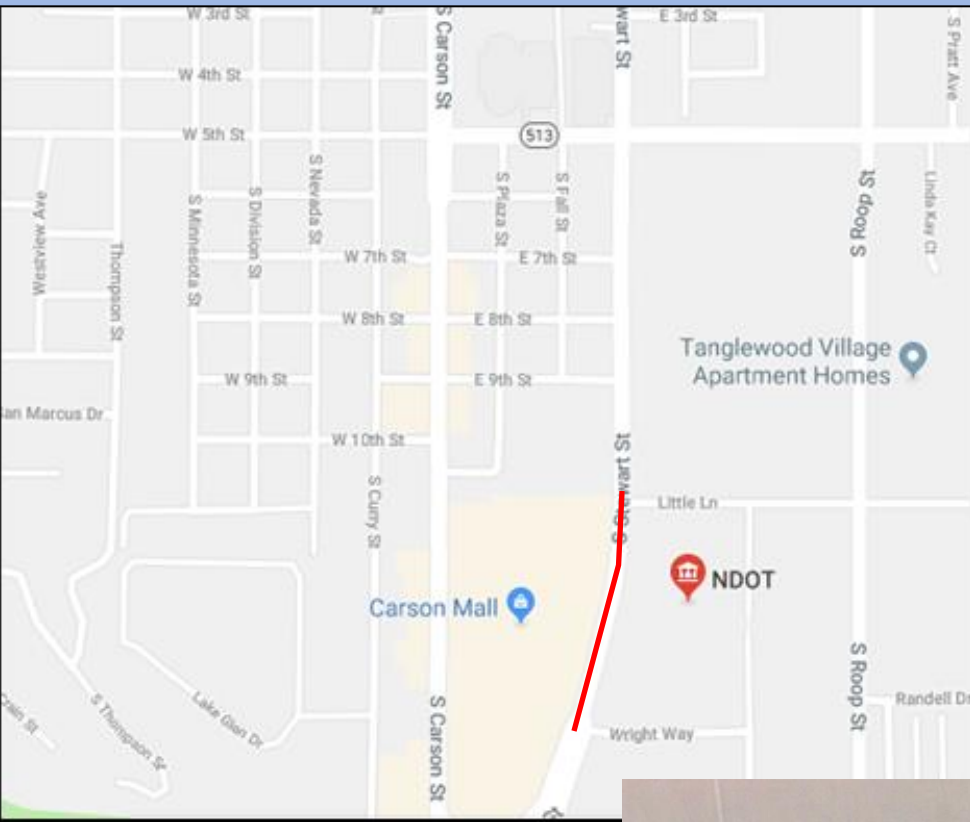
# Kings Canyon Roadway Reconstruction and Trailhead Improvements

\* Grant Funded (95%)

\* Estimated Cost:  
\$3,707,000



# Stewart Street Pedestrian Signals \*NDOT Delivered Construction: Fall 2018



# Stewart Street Pedestrian Signals



# CDBG College Parkway ADA Improvements Total Estimated Cost: \$268,892



# Pavement Management Plan

Carson City Pavement Management Plan



Fiscal Year 2019-2023  
Approved April 11, 2018

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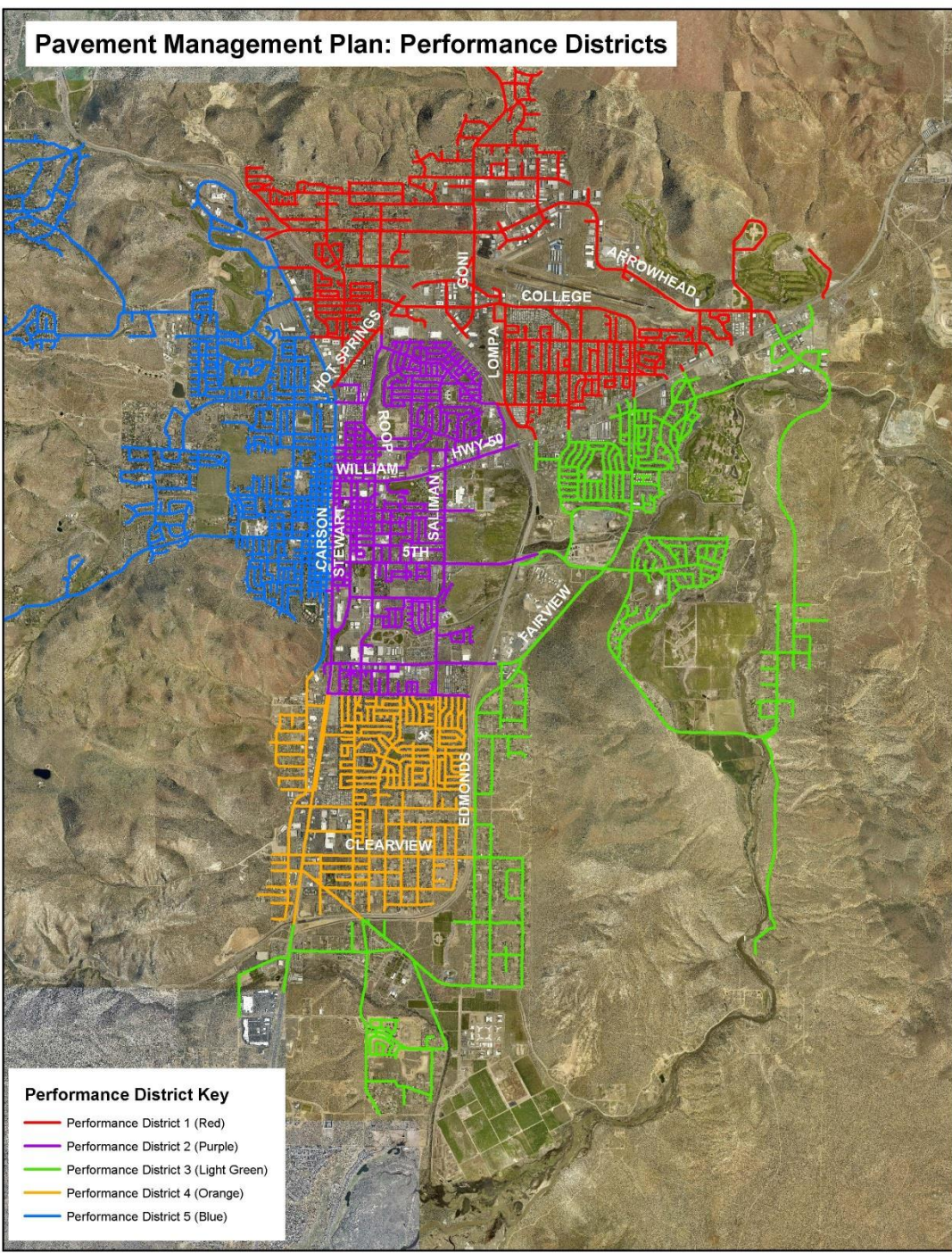
- RTC Approved April 11, 2018
- Establishes an efficient and effective strategy to maintain the City's 676 lane-miles of roadway
- Establishes five performance districts
- Five year rotating schedule

[www.Carson.org/transportation](http://www.Carson.org/transportation)

# Pavement Management Plan: Objectives

- Predictable use of roadway funding
- Improve transparency for public and decision-makers
- Maintain flexibility for unplanned City projects and “match” for grant opportunities
- Target cost-saving strategies
- Provide a framework for:
  - Tracking pavement conditions
  - Setting performance targets
  - Better understanding and justifying funding needs

# Pavement Management Plan: Performance Districts



Performance District Number	Year
1 (Red)	2019
2 (Purple)	2020
3 (Green)	2021
4 (Orange)	2023
5 (Blue)	2023

# Pavement Management Plan

Establishes an annual implementation schedule:

Pavement Inspections

May – June

Project Evaluation

July – August

Project Selection & Public Posting

September – October

Project Design

October – January

Advertise Project(s) for Bidding

January – February

Project Execution/Notice to Proceed

February – March

Project Construction

March – October

# Pavement Management Plan: Evaluation Criteria

The following PCI ranges are used to help determine the appropriate pavement treatment:

- Corrective Maintenance – Eligible at PCI of 65 or greater
- Surface Preservation – Eligible at PCI of 65 or greater
- Surface Rehabilitation – Eligible at PCI between 41 and 65
- Reconstruction – Eligible at PCI less than 40

The remaining factors will further prioritize projects:



- Preventive and Corrective Maintenance Schedule (per industry standards)
- Roadway Functional Classification
- Safety Needs/Targets
- Traffic volume
- Construction Efficiencies
- Funding Eligibility and Availability of Federal Competitive/Discretionary Grant Funding

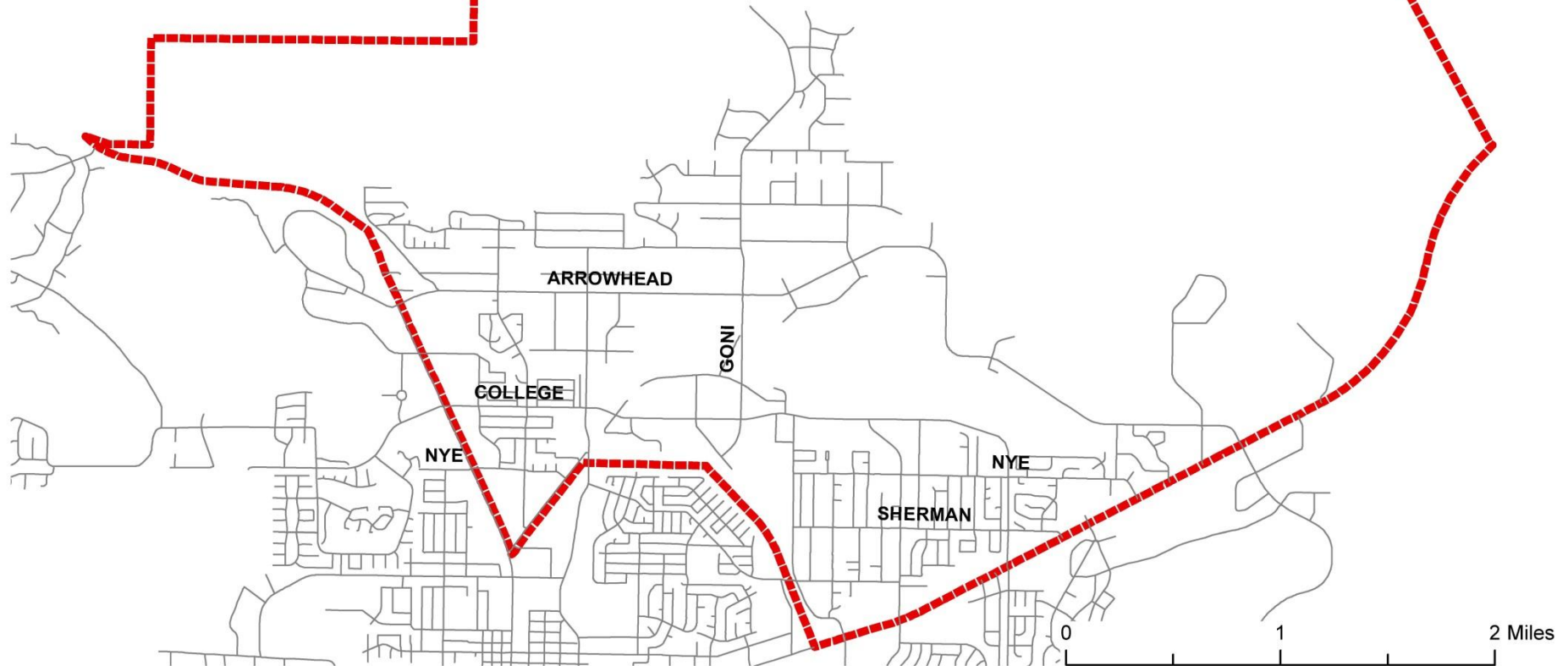


# Performance District 1: Overview

District 1	Road Lane Miles	Current PCI	% Change From Previous	Target PCI Range
All Roads	124	64	-2%	n/a
Regional Roads	39	67	0%	75
Local Roads	85	62	-2%	70

## Legend

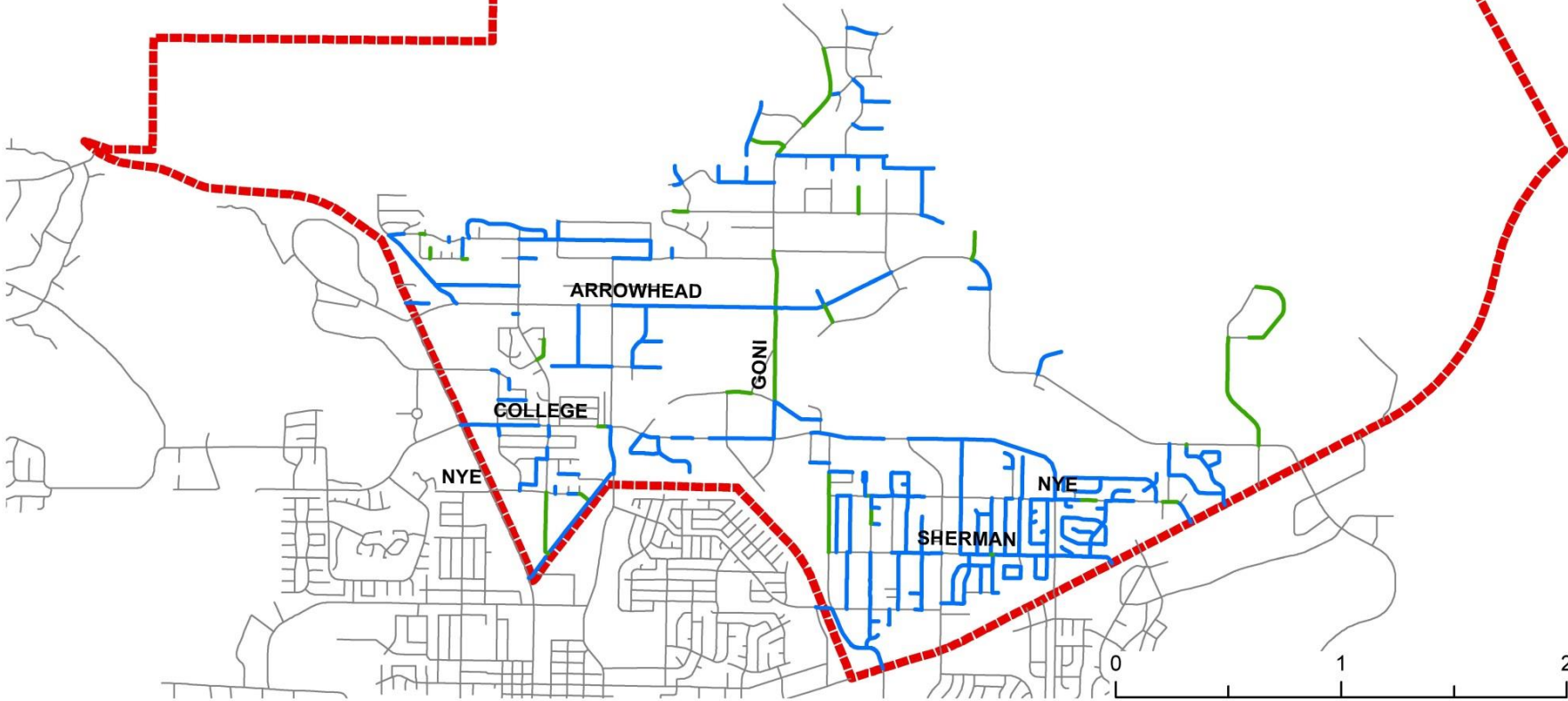
-  Carson City Performance District 1
-  Streets



# Performance District 1: Transportation Projects Under Evaluation Pavement Management Software, All Roads

## Legend

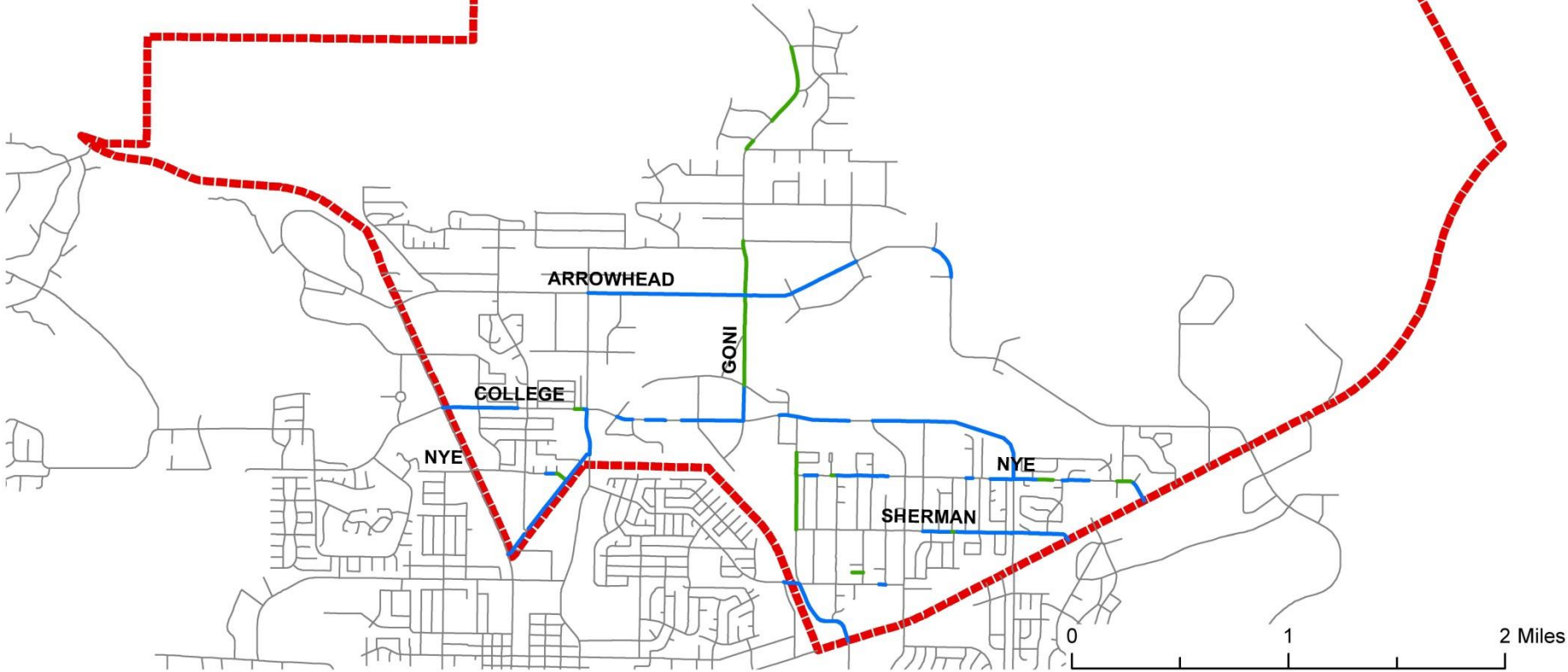
- Preservation Projects
- Rehabilitation/Reconstruction Projects
- ▭ Carson City Performance District 1
- Streets



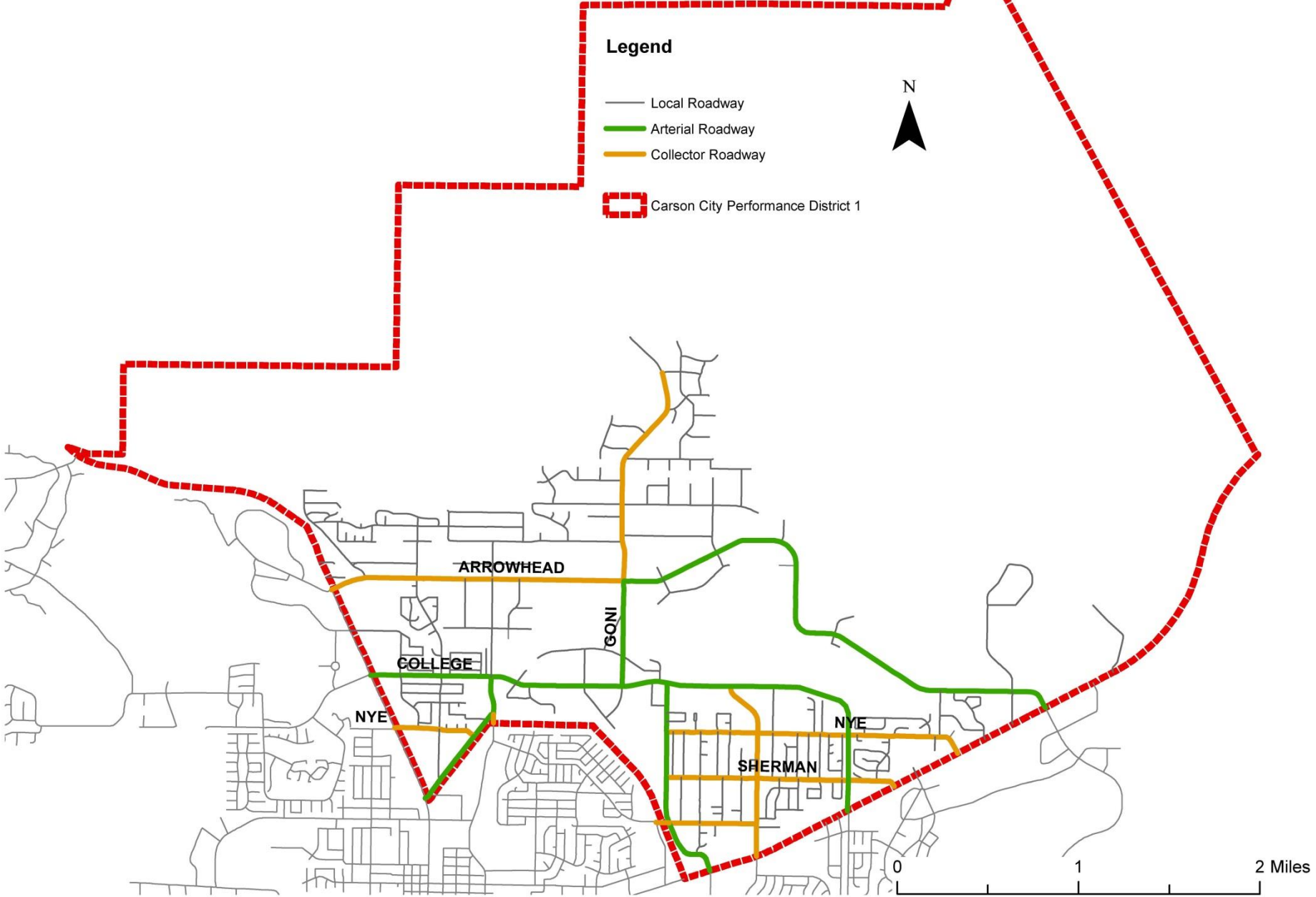
# Performance District 1: Transportation Projects Under Evaluation Pavement Management Software, Regional Roads

## Legend

- Preservation Projects
- Rehabilitation/Reconstruction Projects
- ▭ Carson City Performance District 1
- Streets



# Performance District 1 : Roadway Functional Classification

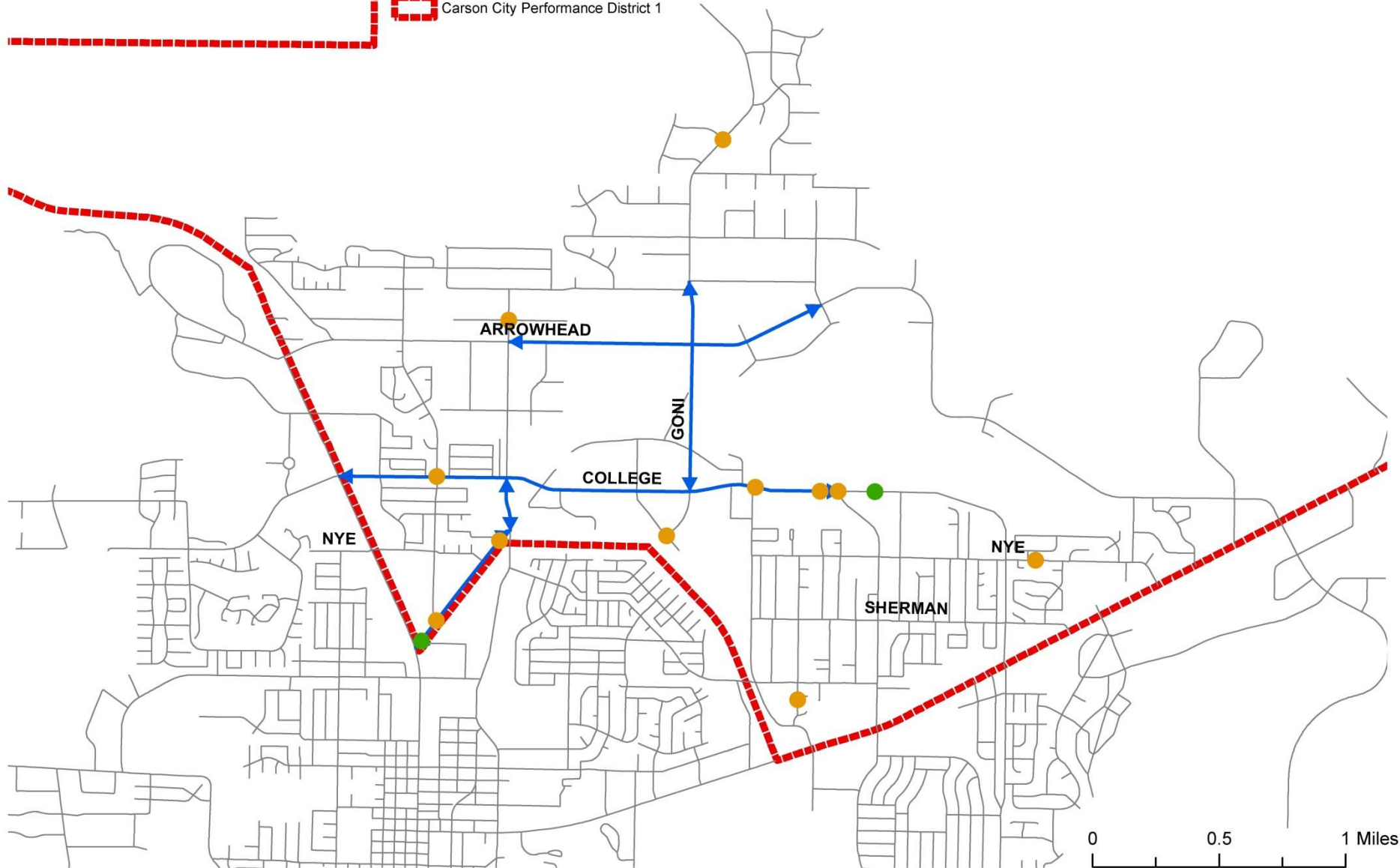




# Performance District 1: Fatalities and Serious Injuries

## Legend

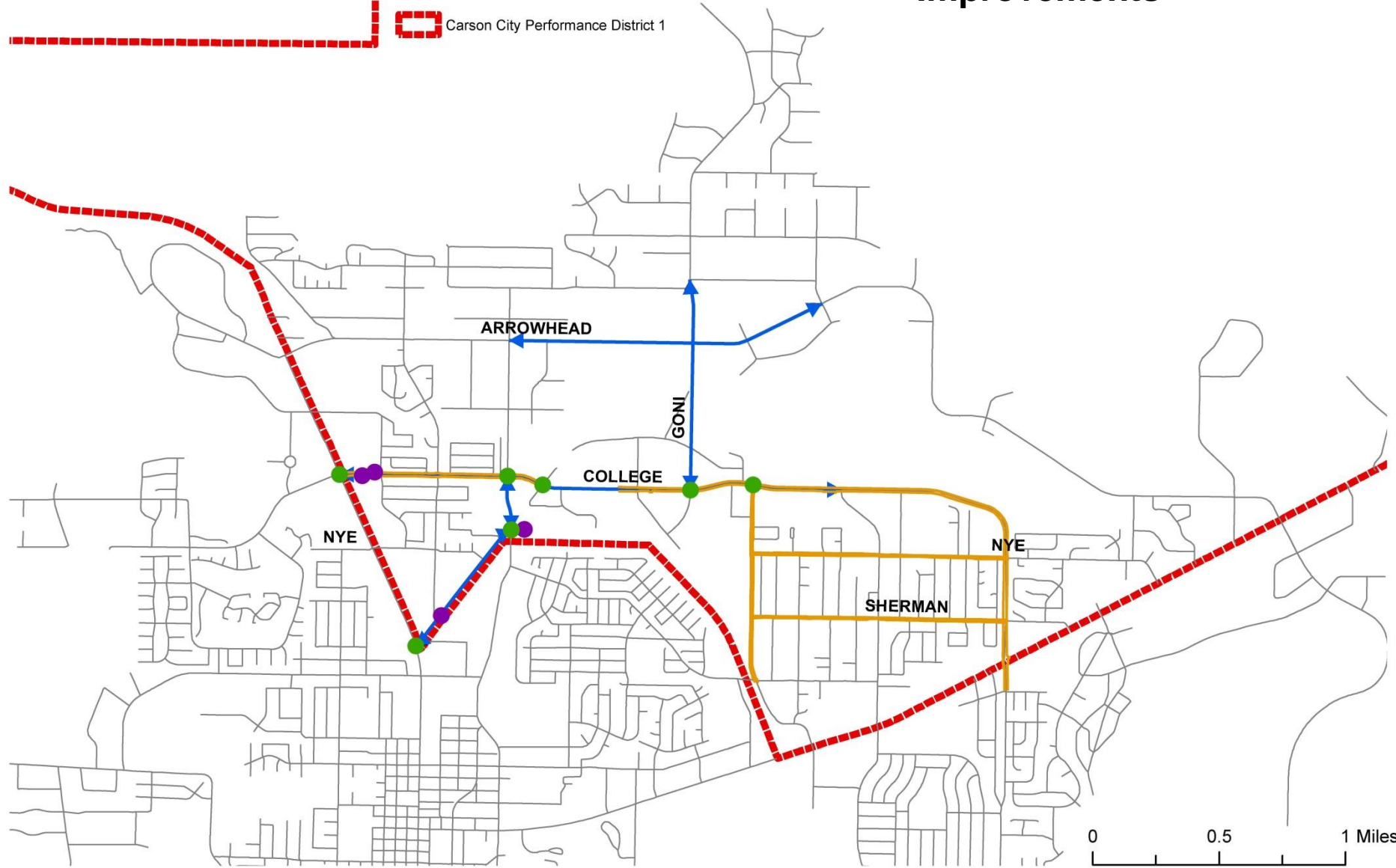
- Fatalities 2011-2016
- Serious Injuries 2011-2016
- Transportation Projects Under Evaluation
- Carson City Performance District 1



# Performance District 1: ADA Transition Plan for Transportation Facilities Improvements





## Legend

- Signalized Intersection Locations
- Transit Stop Facility Locations
- Sidewalk Corridor Facility Locations
- ↔ Transportation Projects Under Evaluation
- ▭ Carson City Performance District 1

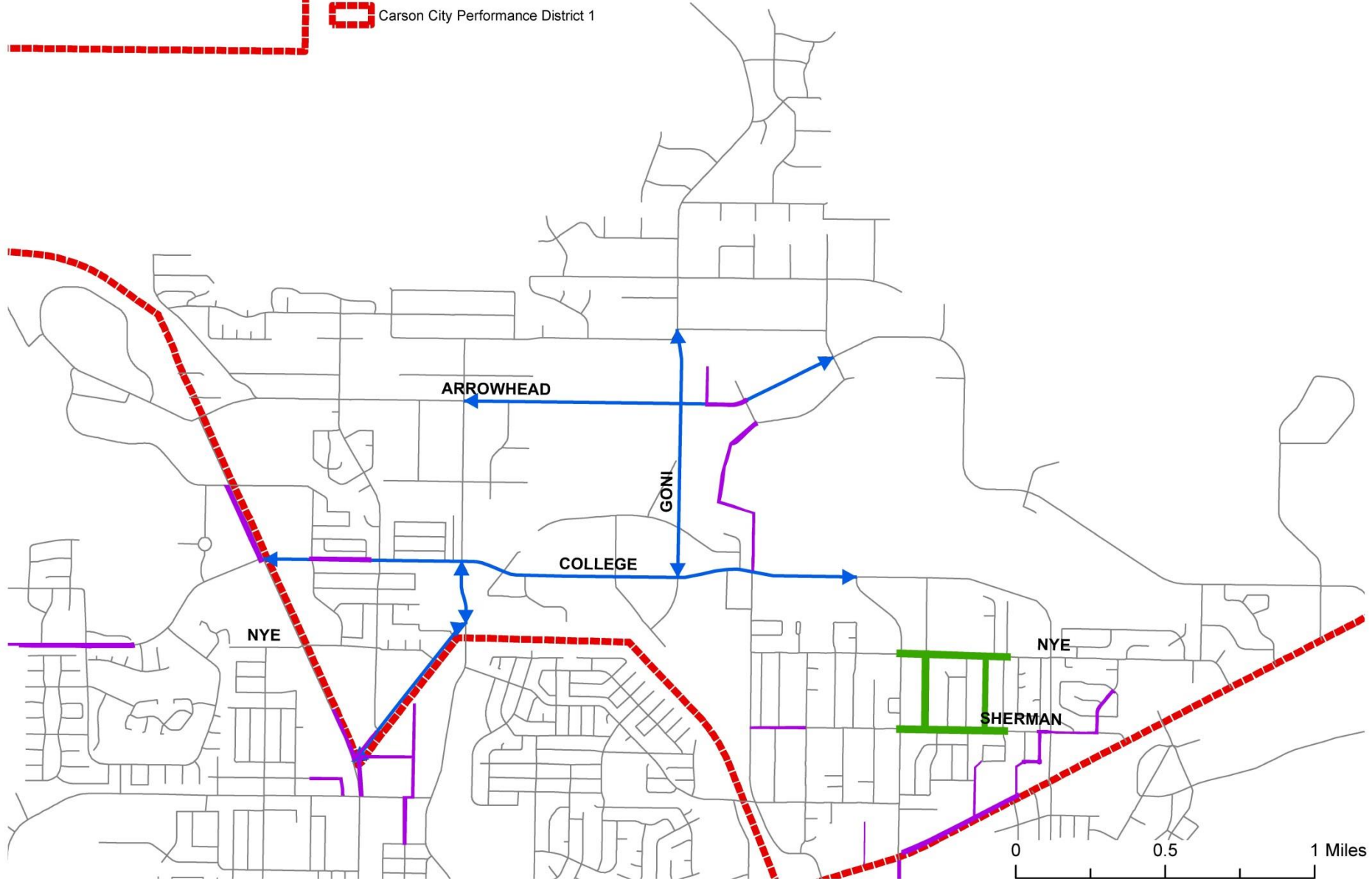


# Performance District 1: Anticipated Public Works Capital Improvement Projects (CIP)

## Legend

-  Sewer Projects
-  Water Projects
-  Transportation Projects Under Evaluation
-  Carson City Performance District 1

N



0 0.5 1 Miles



## Fiscal Year 2019 Pavement Transportation Projects, Under Evaluation

Transportation Facility Name	College Parkway	Hot Springs Road	Roop Street	Arrowhead Drive	Goni Road
Project Extent	Carson to Airport	Carson to Roop	Old Hot Springs to College	Emerson to Convair	College to Boeing
Pavement Condition (Out of 100)	70	84	74	73	59
Project Square Footage	624,032	119,520	53,760	187,330	181,302
Project Length	10,553	3,177	1,120	6,718	4,402
Average Age of Pavement	25	30+	7	25	24
<b>Scoring Categories</b>	<b>Pavement Condition (Maximum Available Points 9)</b>				
	<b>Volume, Annual Average Daily Trips (Maximum Available Points 9)</b>				
	<b>Number of Crashes (Maximum Available Points 6)</b>				
	<b>Function Classification (Maximum Available Points 3)</b>				
	<b>Bus Route (Maximum Available Points 3)</b>				
<b>ADA Transition Plan (Maximum Available Points 1)</b>					
<b>Project Score (Maximum Score 31)</b>	<b>31</b>	<b>24</b>	<b>24</b>	<b>20</b>	<b>19</b>

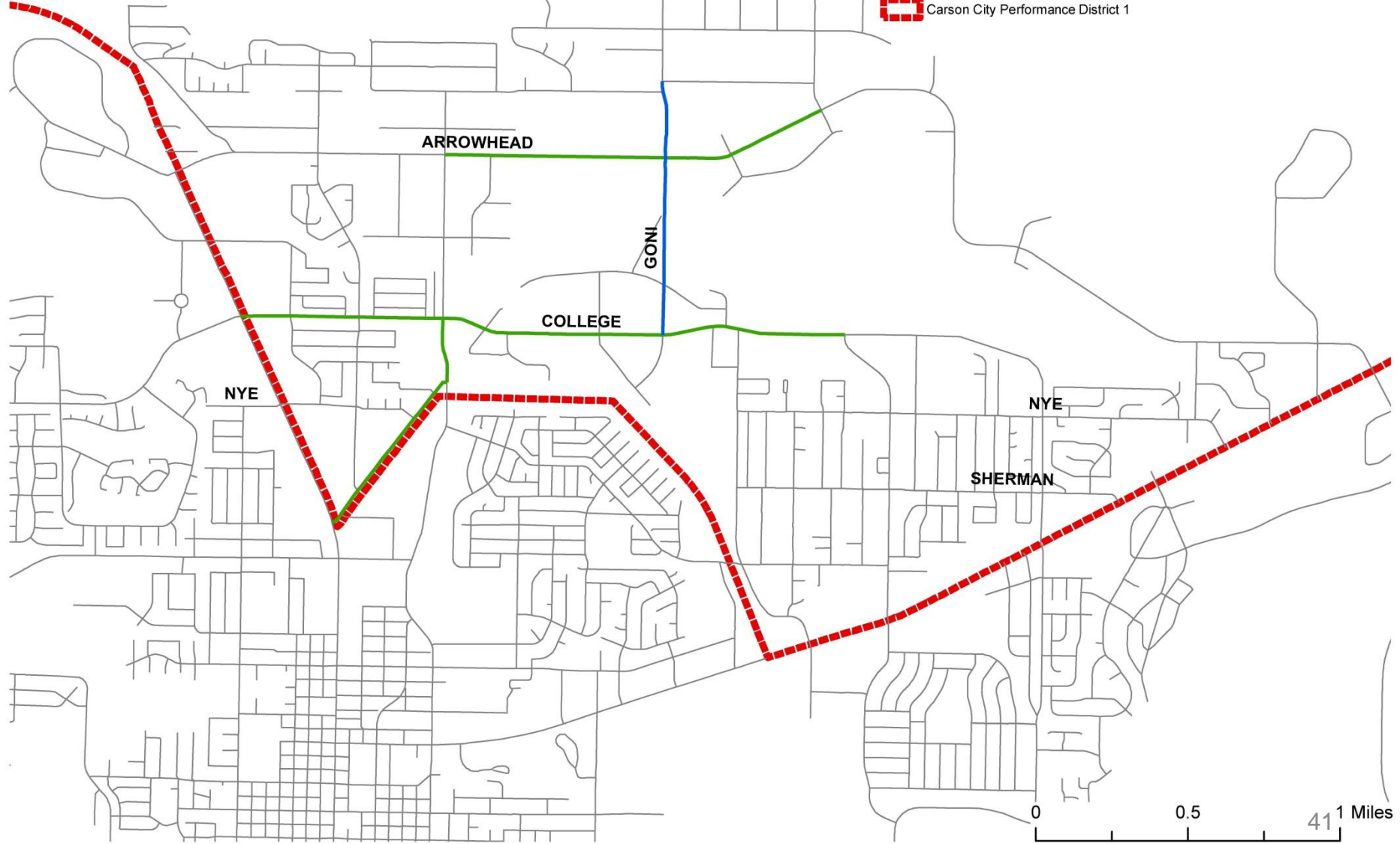
# Group Discussion

# Performance District 1: Transportation Projects Under Evaluation

## Legend

- Roop Street (Old Hot Springs Road to College Pkwy)
- Hot Springs Road (Carson St to Roop St)
- Goni Road (College Pkwy to Boeing Wy)
- College Parkway (Carson St to Airport Rd)
- Arrowhead Drive (Emerson Dr to Convair Rd)

 Carson City Performance District 1



0 0.5 1 Miles

# Contact Information

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Thank you!