



SUNSET VALLEY

The City of Sunset Valley, Texas partnered with SITE Technologies to complete a comprehensive Pavement Condition Index (PCI) assessment across its municipal roadway network utilizing modern drone-based condition capture and AI-ready workflows.

Although the city maintains a relatively small network of approximately 10 lane miles, the initiative demonstrates how municipalities of any size can obtain affordable, defensible, and transparent pavement condition intelligence without the cost, disruption, and inefficiencies often associated with traditional assessment methods.

Through SITE's scalable platform and drone-enabled data collection methodology, the City of Sunset Valley now possesses network-wide pavement condition visibility, a framework for forecasting pavement spending over a 5-year period and defensible PCI data for capital planning discussions with City Council and City Finance Directors.

The Problem

Like many municipalities across the United States, the City of Sunset Valley faces increasing pressure to responsibly manage aging infrastructure while maintaining transparency to residents and accountability to elected officials.

Historically, smaller municipalities often encounter several barriers when attempting to implement comprehensive pavement management programs:

- Limited annual infrastructure budgets
- High cost of traditional PCI surveys
- Difficulty justifying capital funding requests
- Lack of defensible network-wide condition data
- Operational disruptions caused by traditional field collection methods
- Limited ability to forecast long-term pavement funding needs

The City sought a practical and modern solution capable of delivering reliable pavement condition intelligence in a cost-effective and scalable manner.

The Solution

SITE Technologies used drone-enabled pavement assessment to rapidly capture roadway conditions with less disruption than traditional vehicle or manual inspections.

Drone-Based Capture

High-resolution roadway imagery collected quickly with minimal traffic disruption.

AI-Ready Data

Condition data structured to support future AI-driven analysis and scalability.

PCI Assessment

ASTM D6433 PCI methodology used to establish defensible pavement condition scores.

Digital Delivery

Condition intelligence organized in the SITE platform for easier access, transparency, and long-term use.

Benefits

Small Agency Benefits

Modern drone-enabled workflows have the potential to significantly reduce field collection costs and operational disruption compared to conventional pavement survey methodologies.

Transparency & Council Confidence

Reliable PCI data improves transparency and strengthens the defensibility of capital funding discussions with city leadership and resident.

Time Savings / Operational Efficiency

Drone-based collection significantly reduced the time required to document the roadway network while minimizing disruption to daily public operations.

SITE Technologies is committed to helping municipalities modernize infrastructure condition intelligence through scalable, affordable, and defensible digital assessment solutions designed for the future of public asset management.

Why this Matters for Municipalities

The Sunset Valley project demonstrates that modern pavement management is no longer limited to large metropolitan agencies with substantial engineering budgets.



Rapid Network Capture and Delivery

While most traditional condition assessments take 6 weeks, the City's approximately 10 lane-mile roadway network was captured within a single operational day, minimizing disruption to municipal operations and the traveling public.

Condition analysis and digital reporting were subsequently completed within an accelerated multi-week timeframe, enabling City leadership to quickly access actionable pavement condition intelligence for planning and budgeting discussions.

This streamlined workflow highlights the potential for modernized condition intelligence platforms to improve responsiveness, scalability, and efficiency for municipal infrastructure programs.



At a Glance

~ 10

lane miles assessed
across the network

ASTM D 6433

Industry-standard PCI
methodology

18,149 LF

Linear feet of
asphalt crack
discovered

2 Months

From field capture
to deliverable

This is how the small Texas city gained network-wide visibility, a 5-year funding framework, and council-ready data without the disruption of traditional vehicle-mounted or manual surveys.

“Our goal is simple: to provide some of the smoothest and safest roads in Texas, and SITE Technologies is helping us get there.”

Dakota Burns | Assistant Public Works Director,
City of Sunset Valley, Texas



Strategic Value to City Leadership

The value of reliable condition intelligence extends beyond engineering.

The City of Sunset Valley now possesses a defensible framework capable of supporting:

- City council capital planning discussions
- Resident transparency initiatives
- Infrastructure prioritization decisions
- Long-term maintenance forecasting
- Budget allocation planning
- Asset lifecycle management

Reliable condition intelligence improves confidence in funding discussions and supports more informed infrastructure investment decisions.

See more with SITE

Learn more at
www.sitetechnologies.io

● Request a live demo:
www.sitetechnologies.io/intro

● Watch a quick demo:
<https://bit.ly/SITE-overview>

● Contact us:
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