

Santa Cruz Reliability Project North

Welcome

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hablamos
español**

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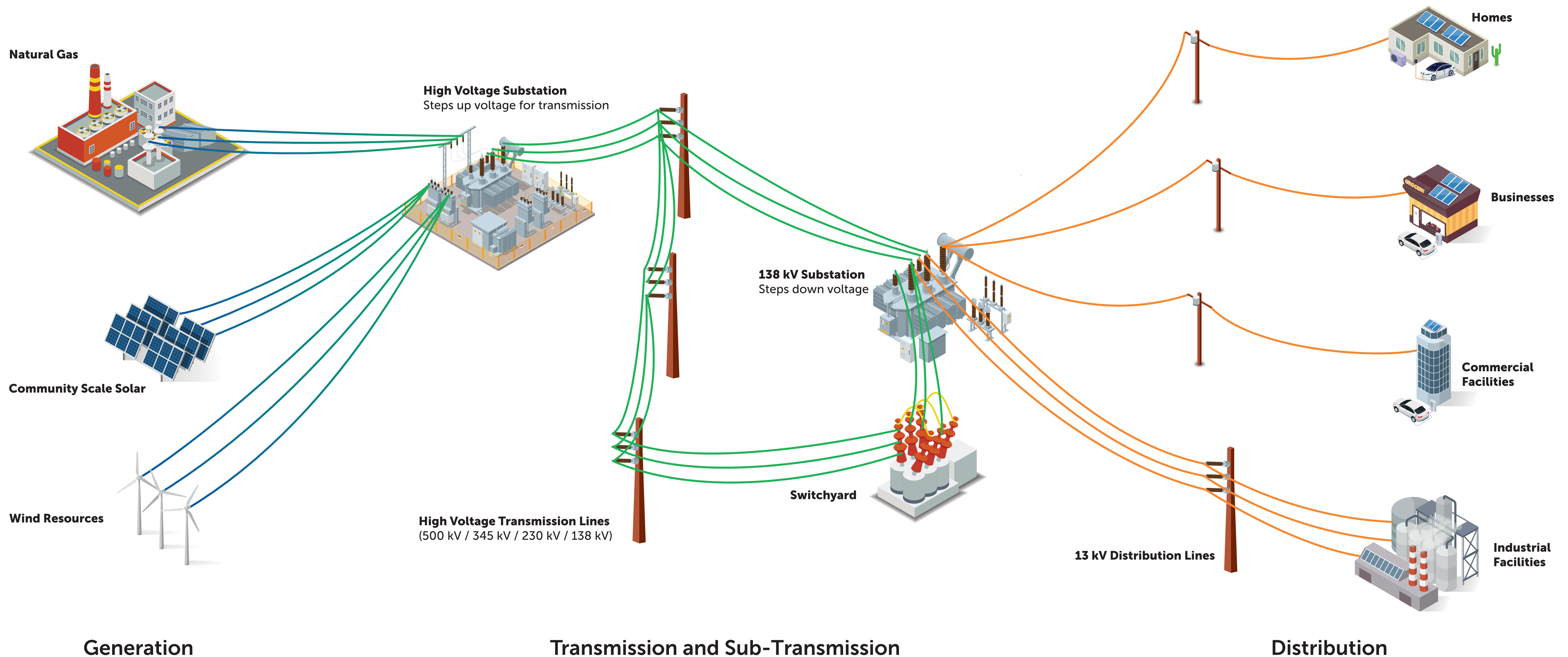
**Para Más
Información**



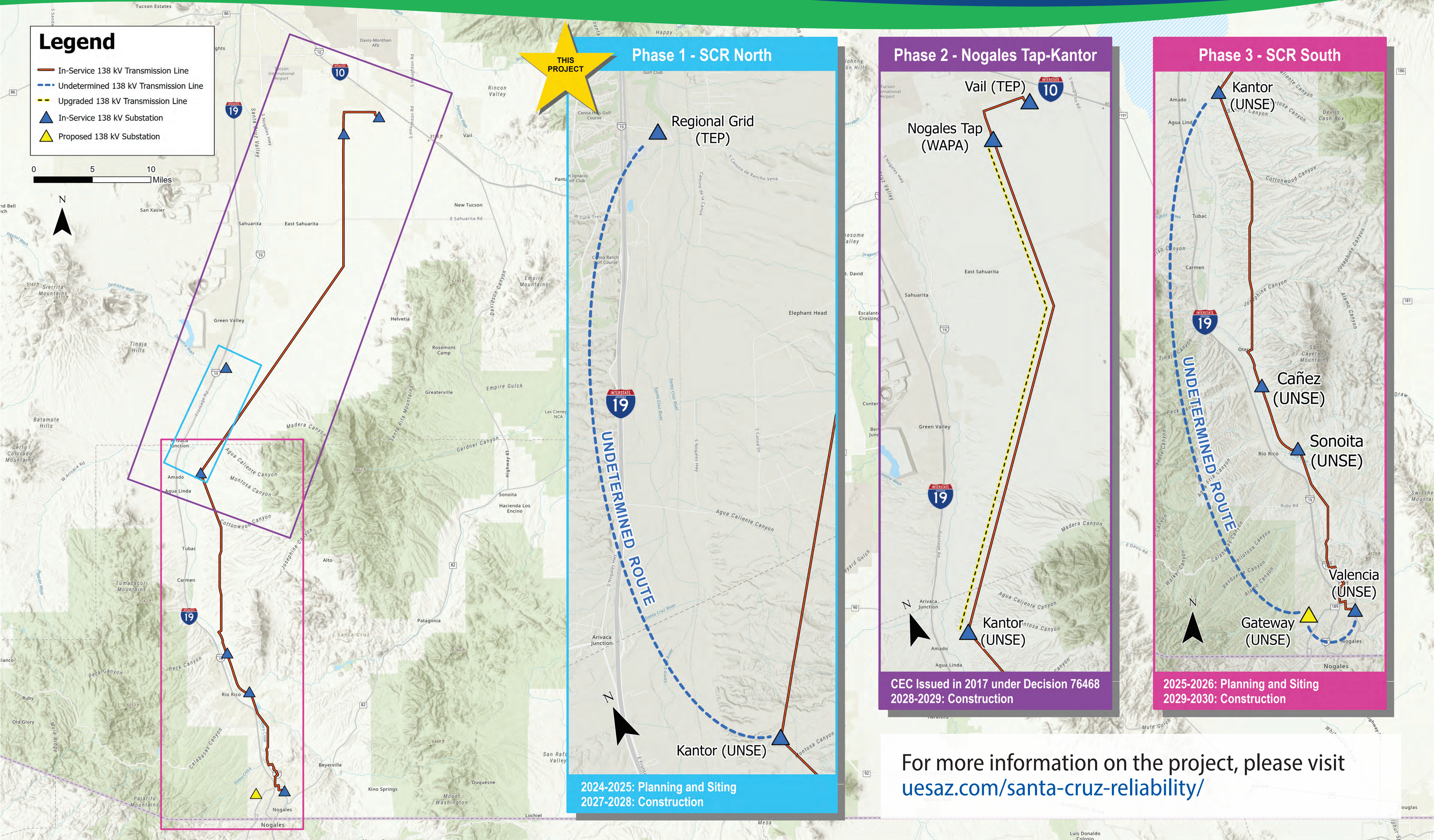
Our Energy Grid

How we deliver electric service to you

UniSourceEnergy
SERVICES



Santa Cruz Reliability Project



Purpose & Need

Purpose

Improve the reliability and resiliency of the electrical transmission system servicing Santa Cruz County



Need

Maintain and strengthen reliability for Santa Cruz County and its residents, businesses, and industries including hospitals, schools, ports of entry, and federal facilities

Meet current and future energy needs without impacting service to existing customers

Convert the current radial line configuration servicing Santa Cruz County to a looped transmission system

Reduce and eliminate the potential for a major and sustained outage in Santa Cruz County

Support maintenance and other upgrades, allowing work to be performed without interrupting system operations

Example Pole Structure

Tubular, Weathering Steel Monopoles



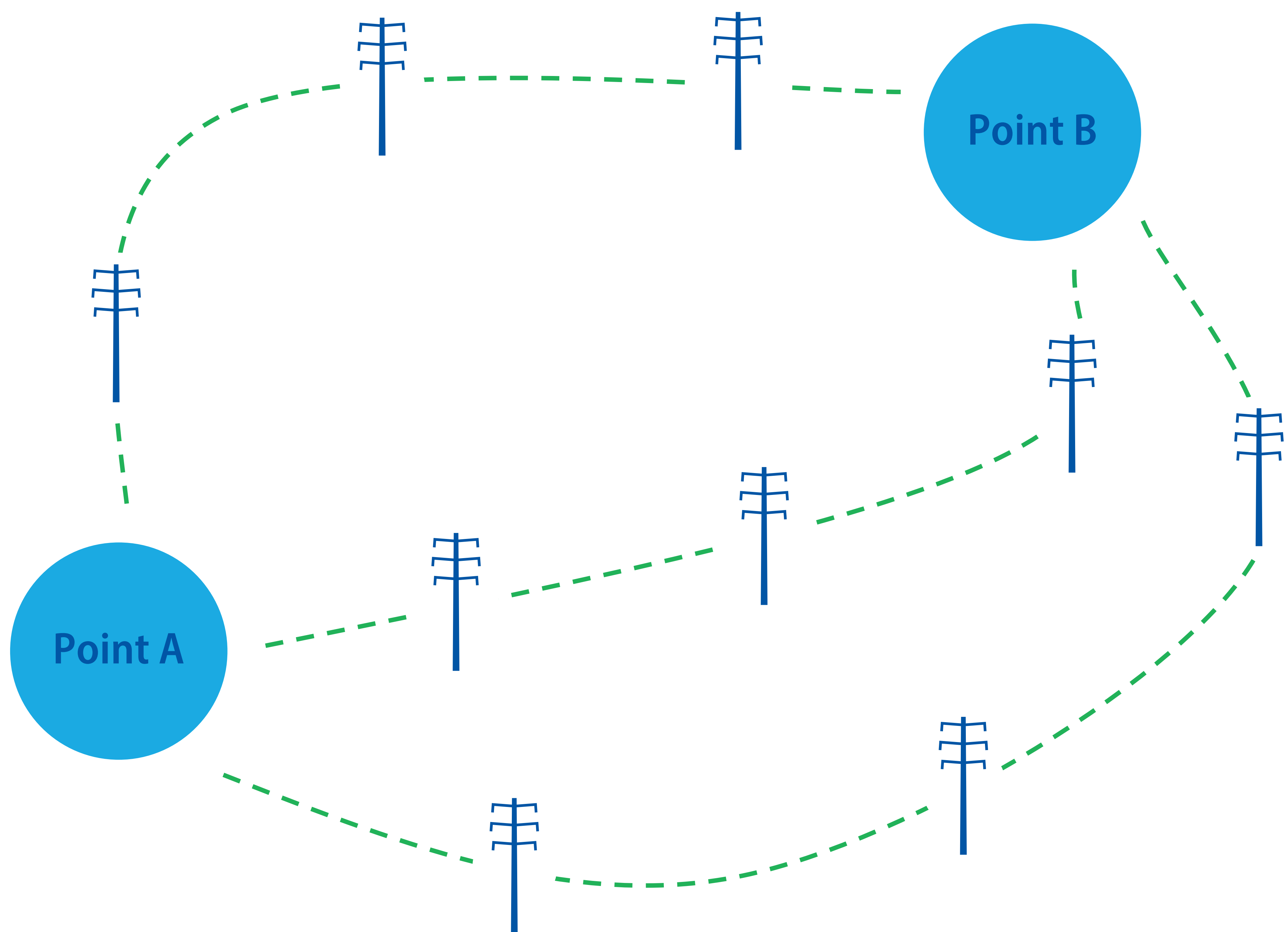
Typical height 75 - 85 feet
Typical span length of 600 - 1,000 feet

Kantor Substation Upgrades



What is Siting?

The process of determining the exact route or location where a high-voltage transmission line will be built between two or more points. These points could be new or existing substations, switchyards or energy resources.



A component of siting is permitting. Under Arizona law (A.R.S. § 40-360 et seq.), certain transmission line configurations require a Certificate of Environmental Compatibility (CEC) before construction and operation along an approved route.

Project Route Development and Evaluation

UniSource considers factors important to the community and environment, and balances them with constructability, maintenance, and cost to find the most suitable path for the transmission line that satisfies the need for the project.

Suitability Factors

- Community Input
- Biological Resources
- Land Use
- Visual Resources
- Cultural Resources

Practicability

- Cost
- Maintenance
- Constructability

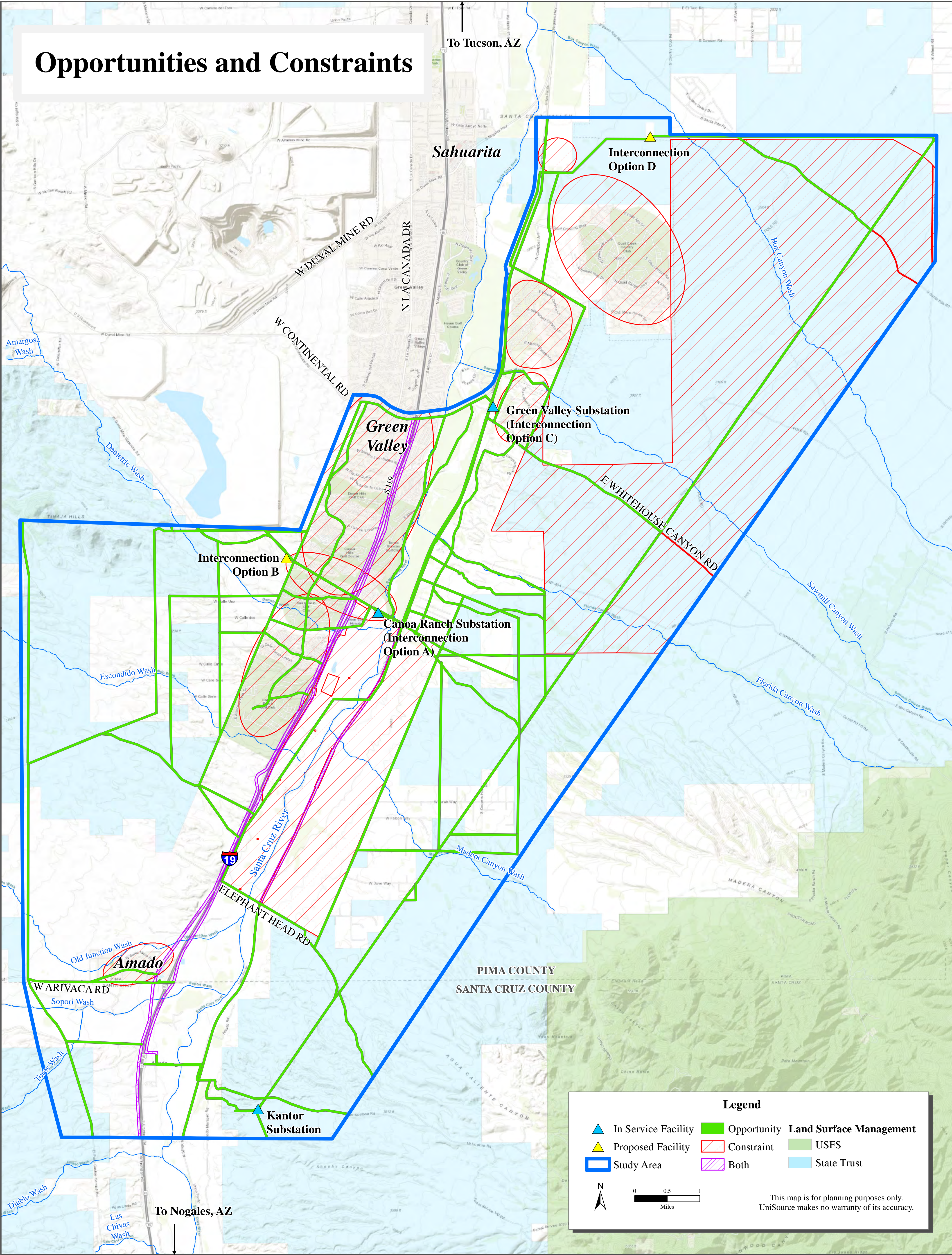


Siting Process Flowchart

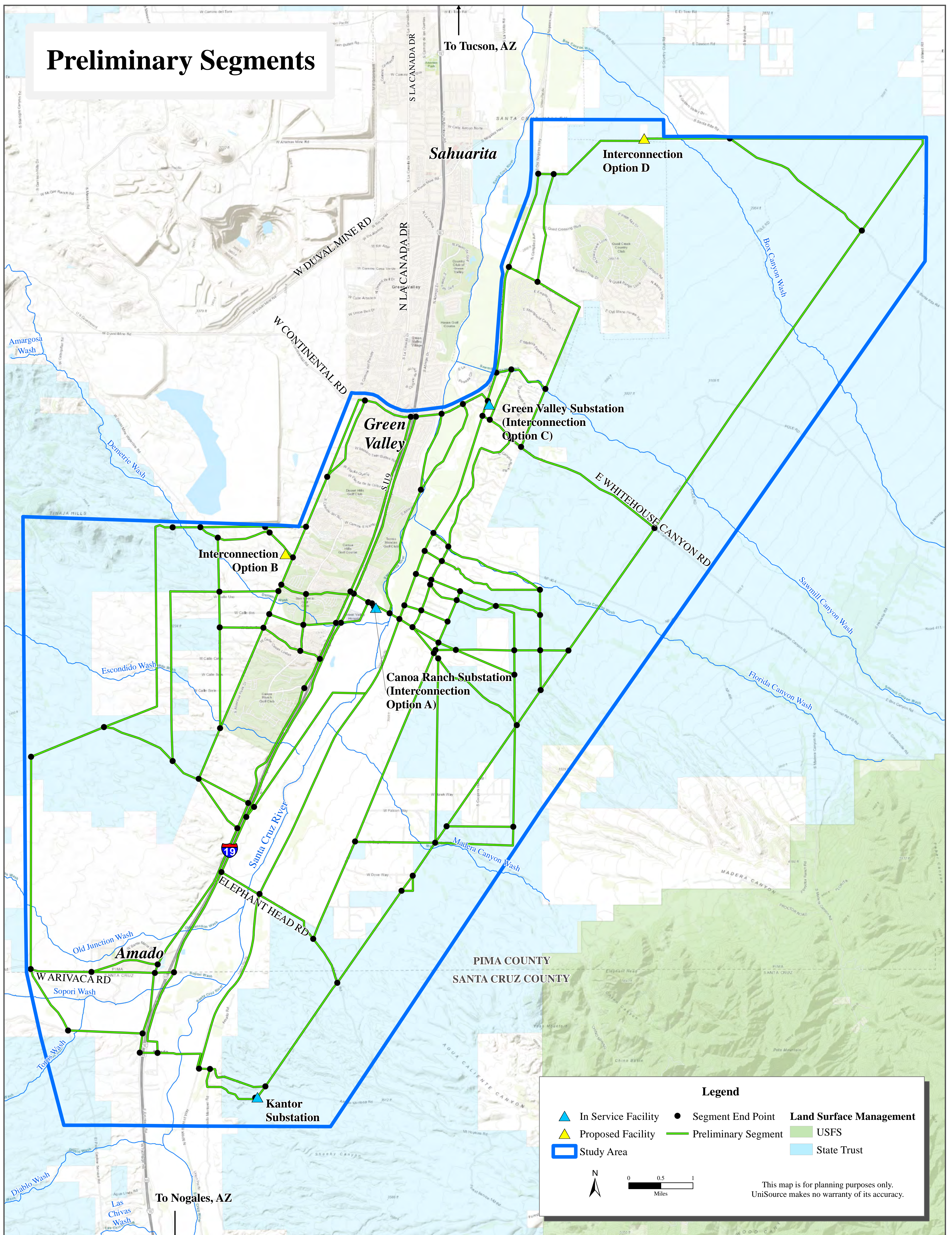


The map displays the Sahuarita area, highlighting proposed transmission lines and substations. Key locations include Sahuarita, Green Valley, Canoa Ranch, and Amado. The map shows Interconnection Option B, Canoa Ranch Substation (Interconnection Option A), and Kantor Substation. A legend identifies symbols for Facility, Removed Facility, Study Area, Existing Transmission Line, Natural Gas Pipeline, Land Surface Management (US Forest Service, State Trust, Sensitive Areas), and a scale bar. Arrows indicate directions To Tucson, AZ and To Nogales, AZ.

Opportunities and Constraints



Draft Preliminary Segments



Suitability Assessment

Criteria Models

- Existing Plans
- Biological Resources
- Noise and Communication
- Cultural and Historic Resources
- Visual Resources
- Total Environment
- Existing and Future Residential
- Wildfire Risk
- Engineer, Construction and Maintenance

Composite Models

- Balanced Compatability Model
- Environmentally Preferred Model
- Construction & Maintenance Preferred Model
- Public Stakeholder & Agency Preferred Model

Suitability Assessment

- Highest Suitability Path
- Apply Constraints
- Visual Comparison

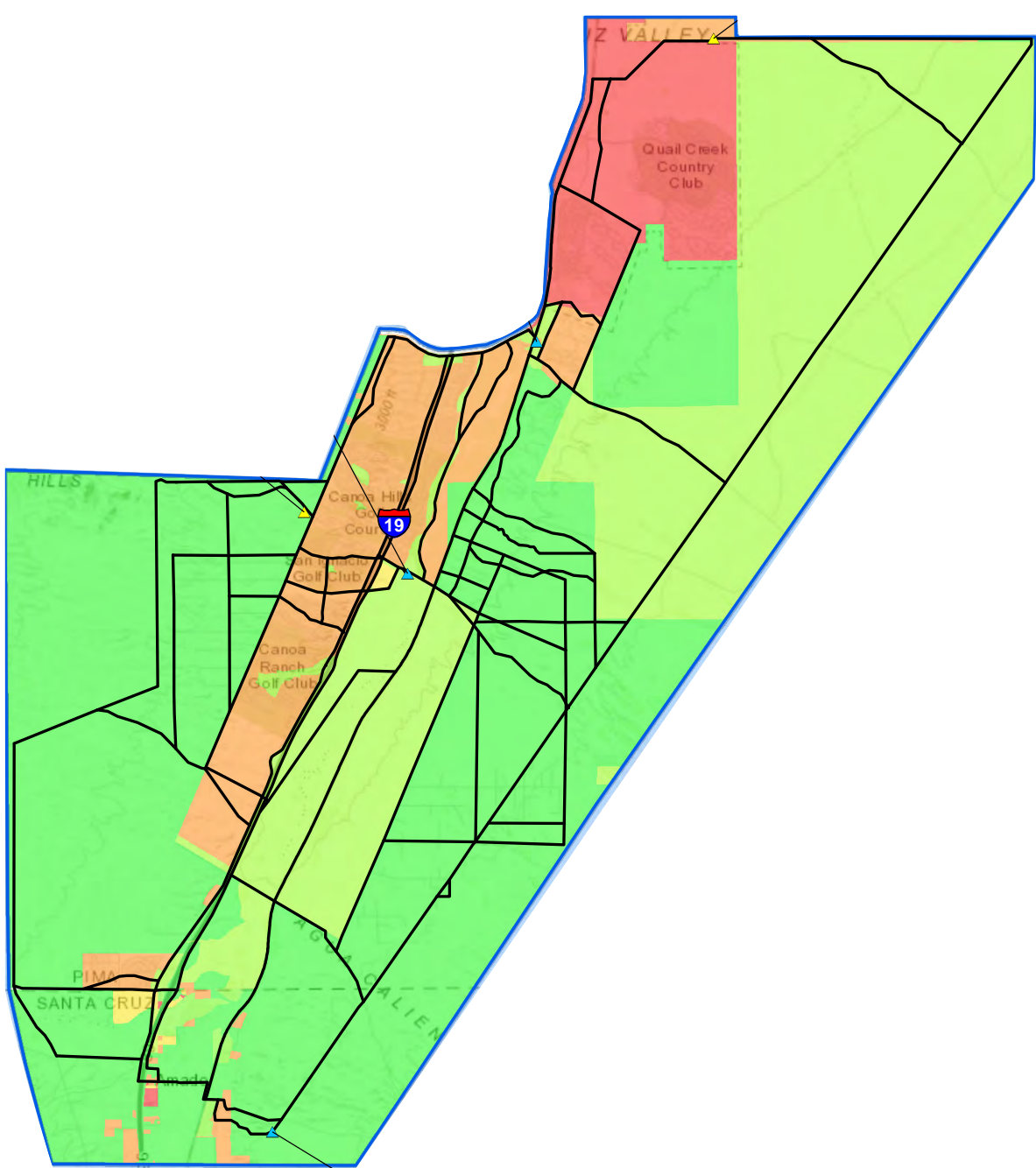
Field Verification

- Ground Truthing

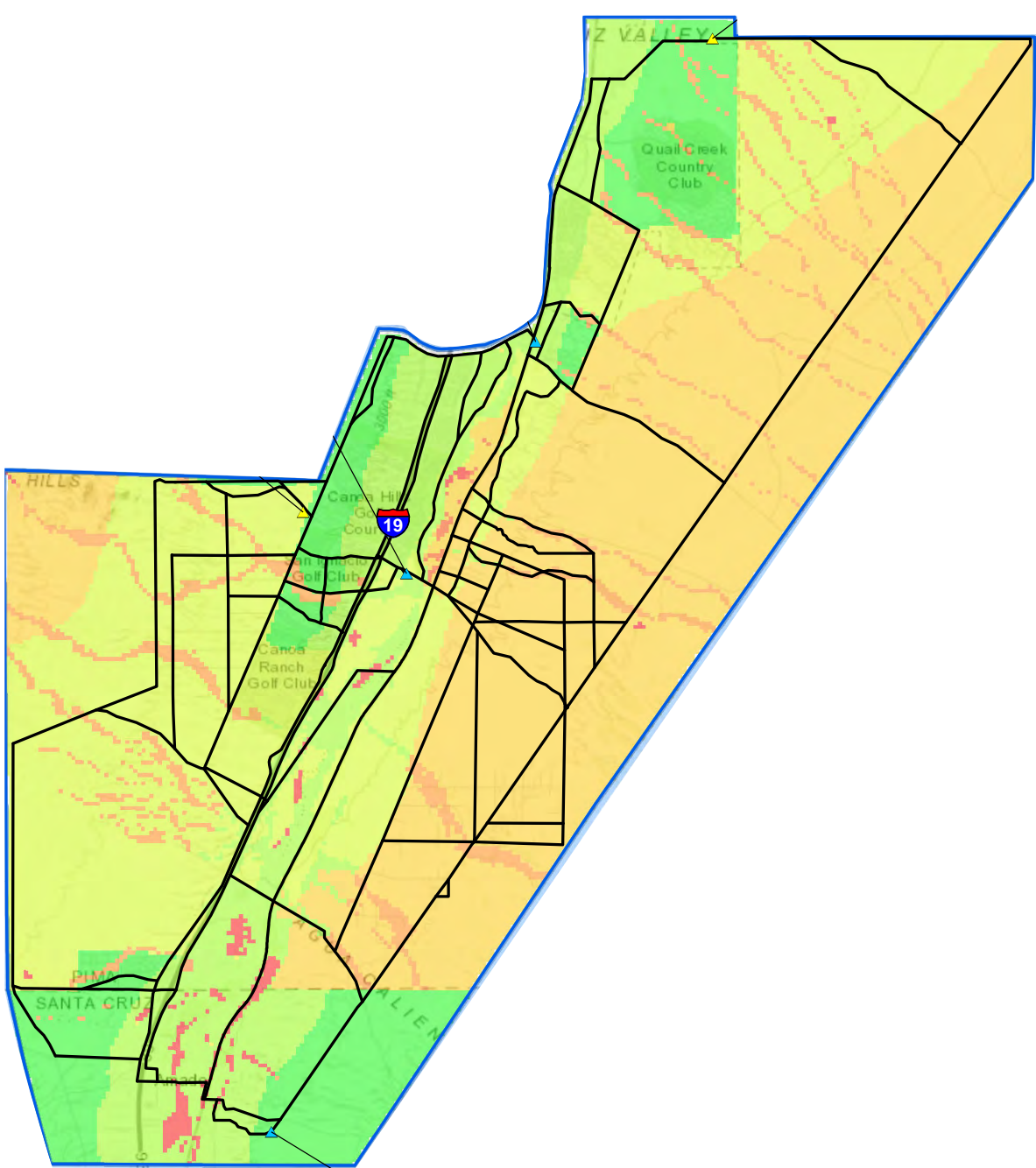
Refined Segments

- Eliminate Less Suitable Segments
- Carried Forward for Further Evaluation

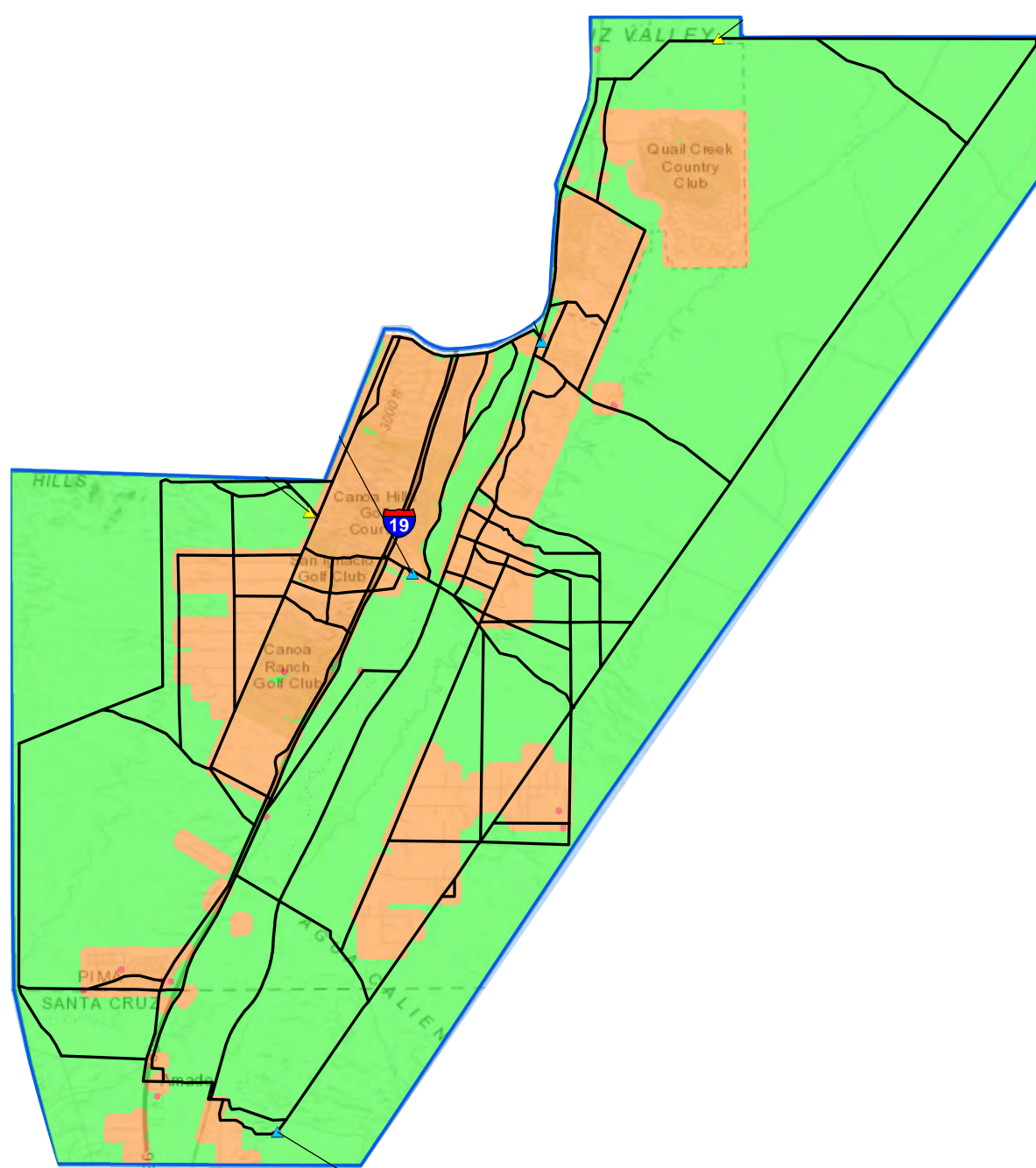
Suitability Criteria



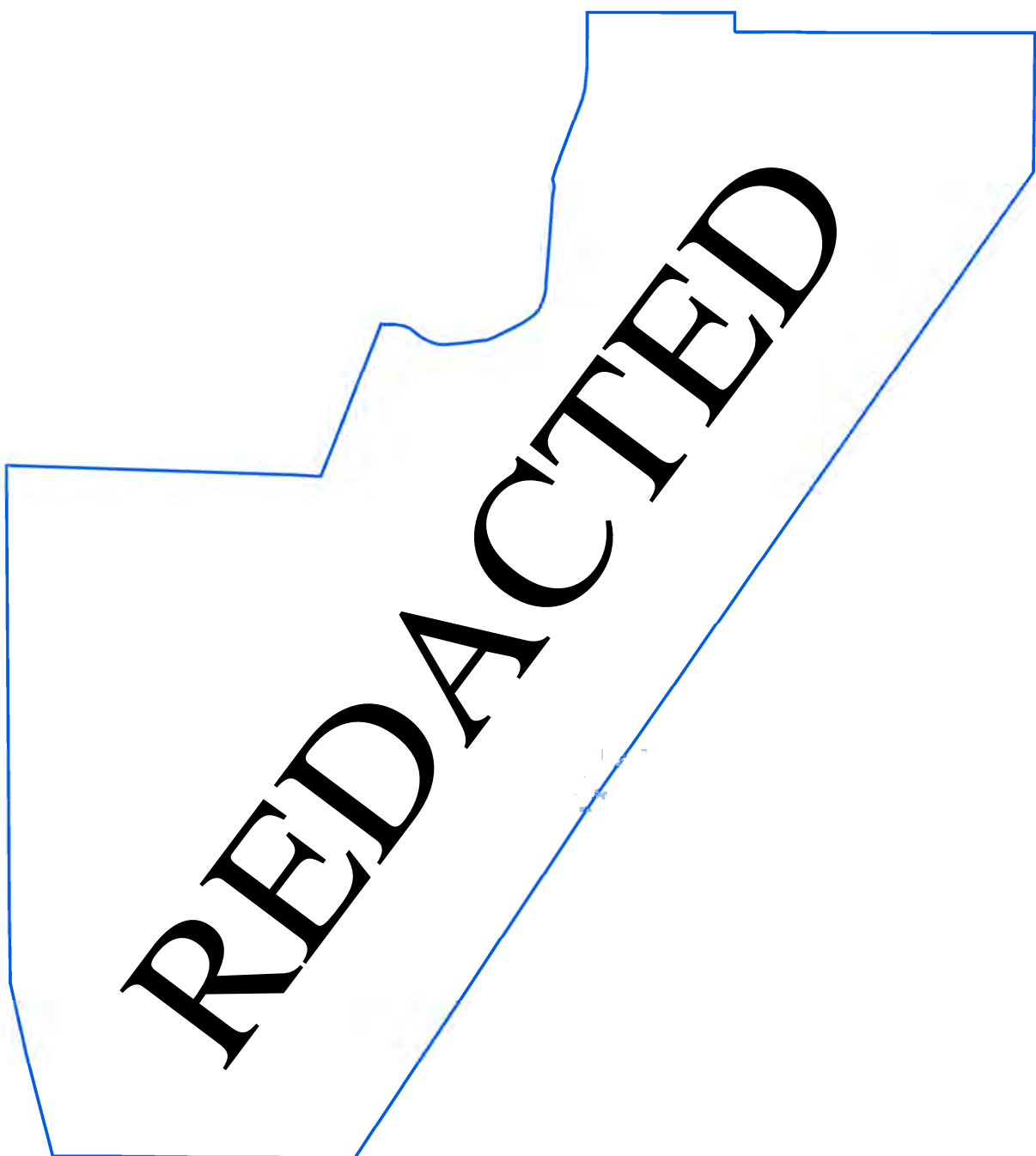
Existing Plans



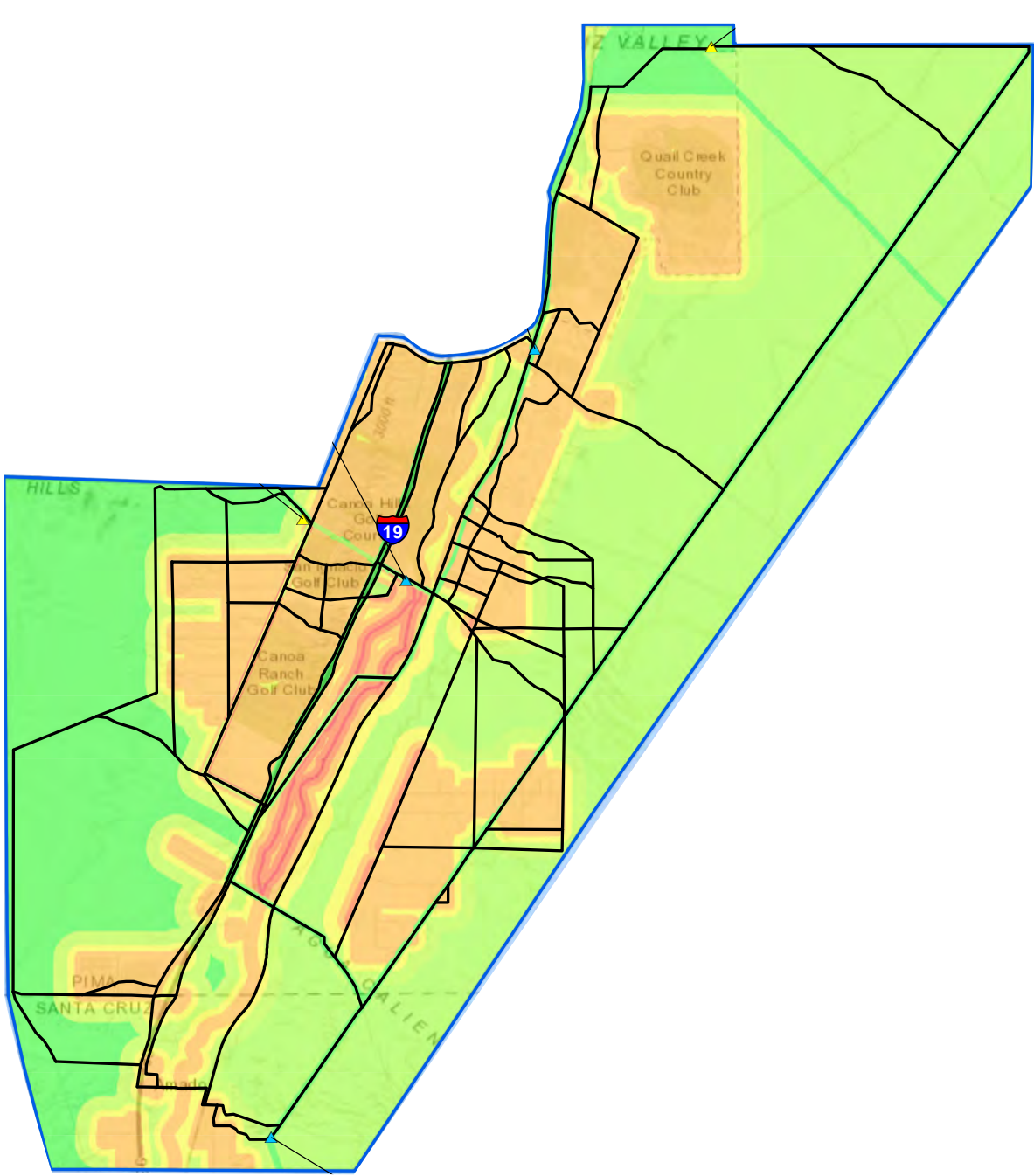
Biological Resources



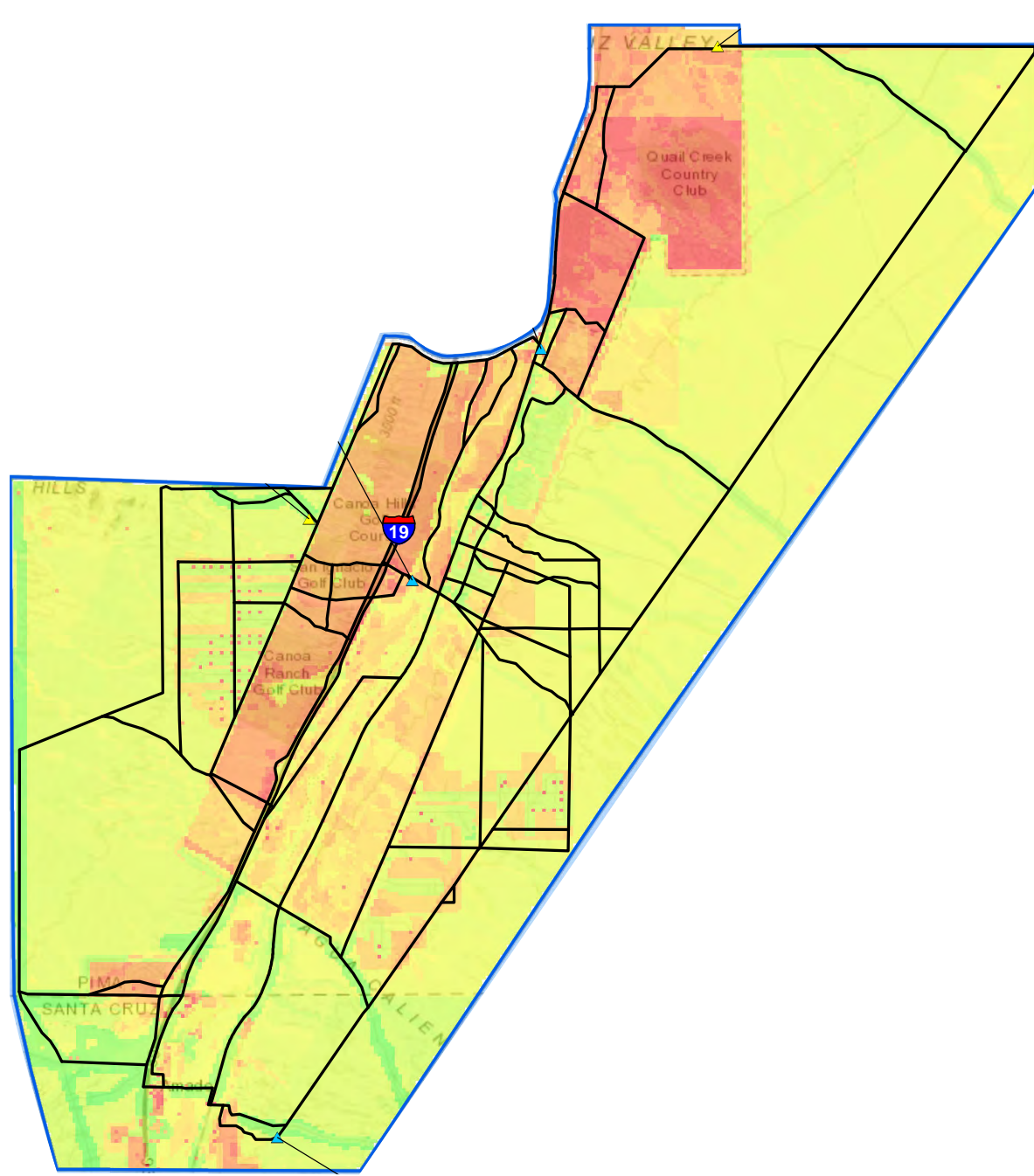
Noise &
Communication



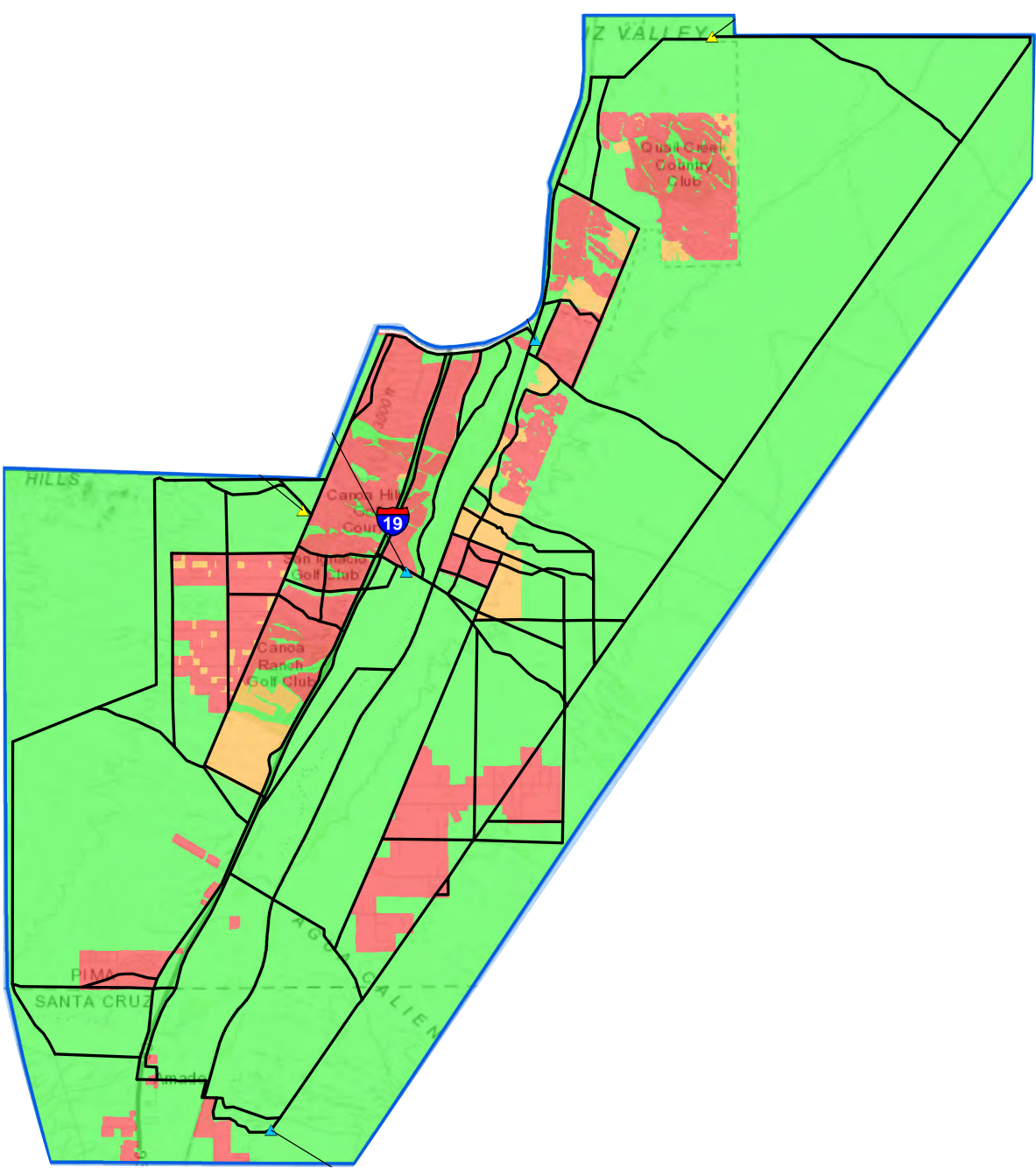
Cultural & Historical
Resources



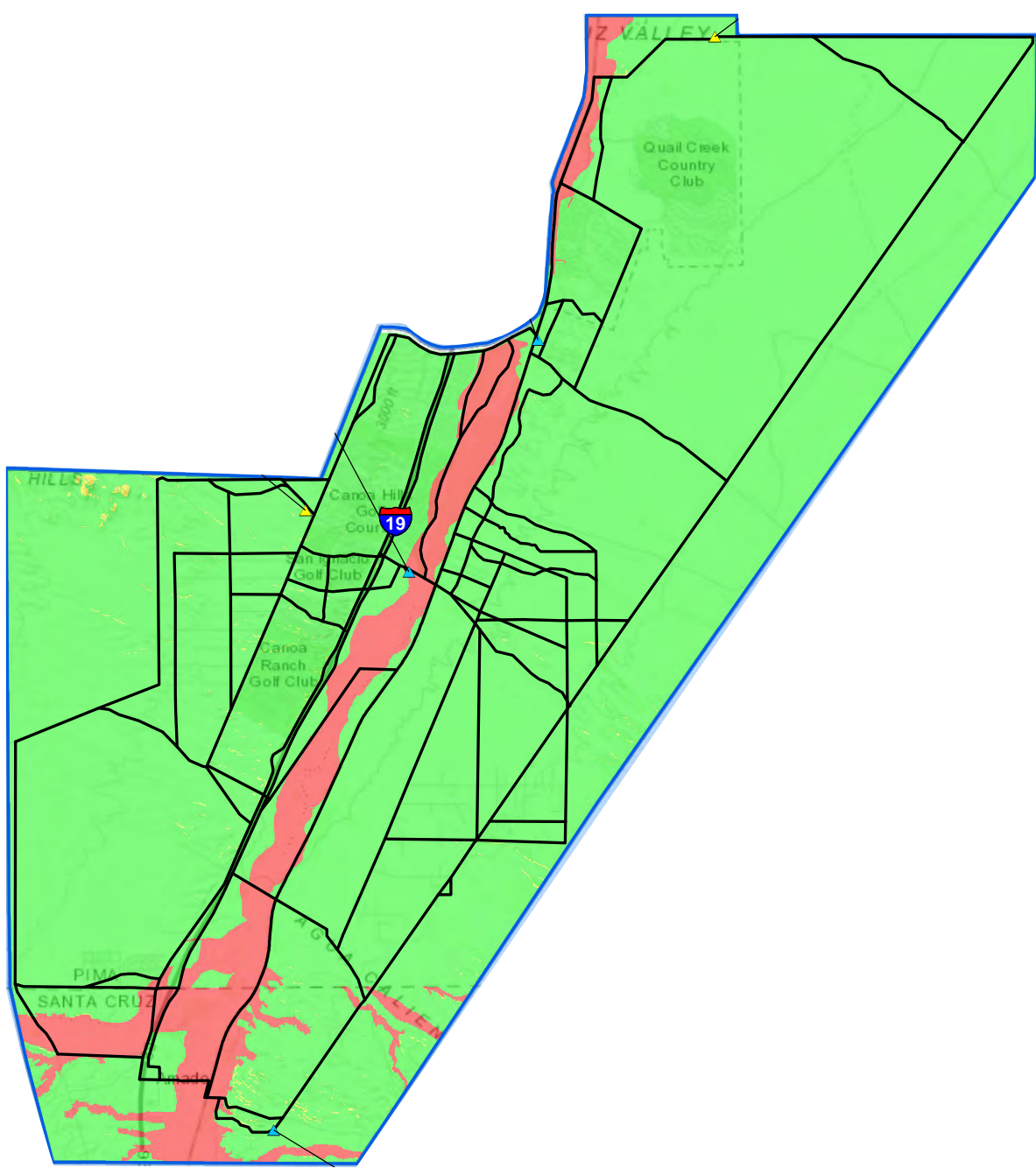
Visual Resources



Total Environment



Existing and Future Residential
Properties Adjacent to
Transmission Lines



Construction &
Maintenance

Legend

▲ In Service Facility

▲ Proposed Facility

Study Area

Suitability Analysis

High Suitability

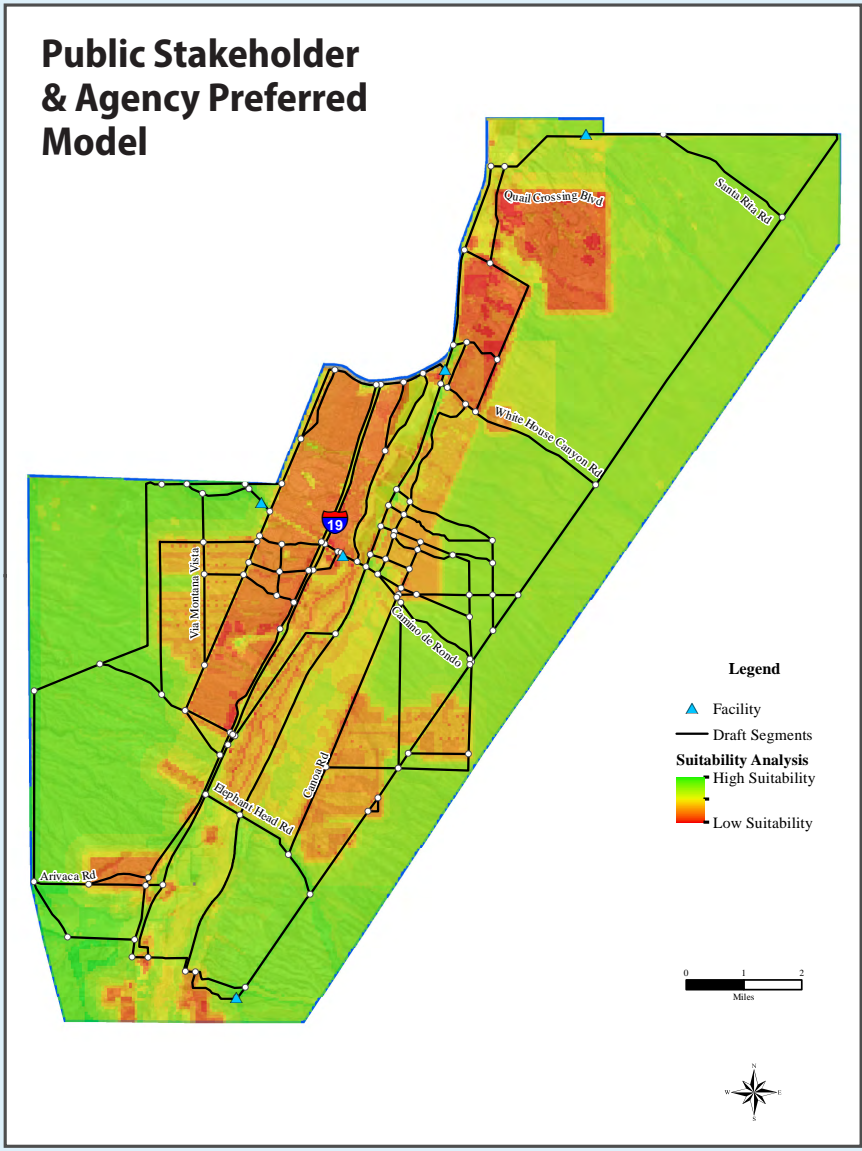
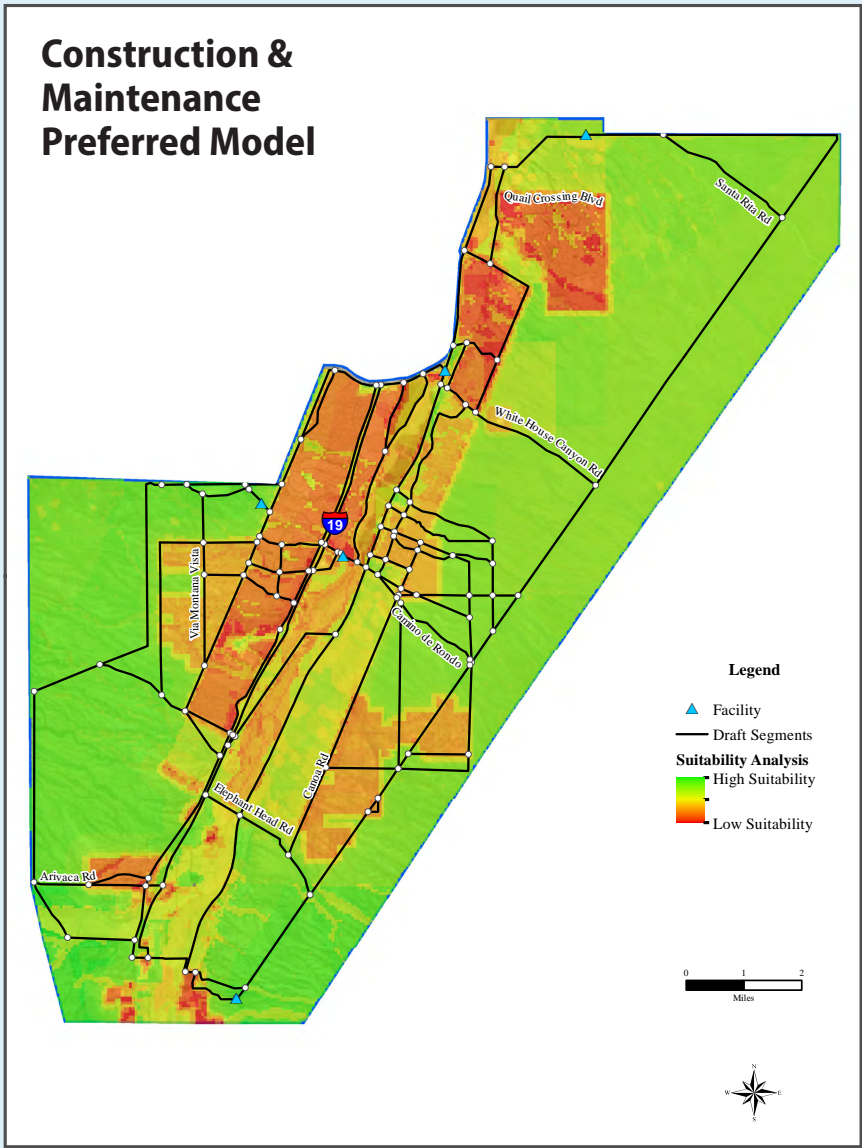
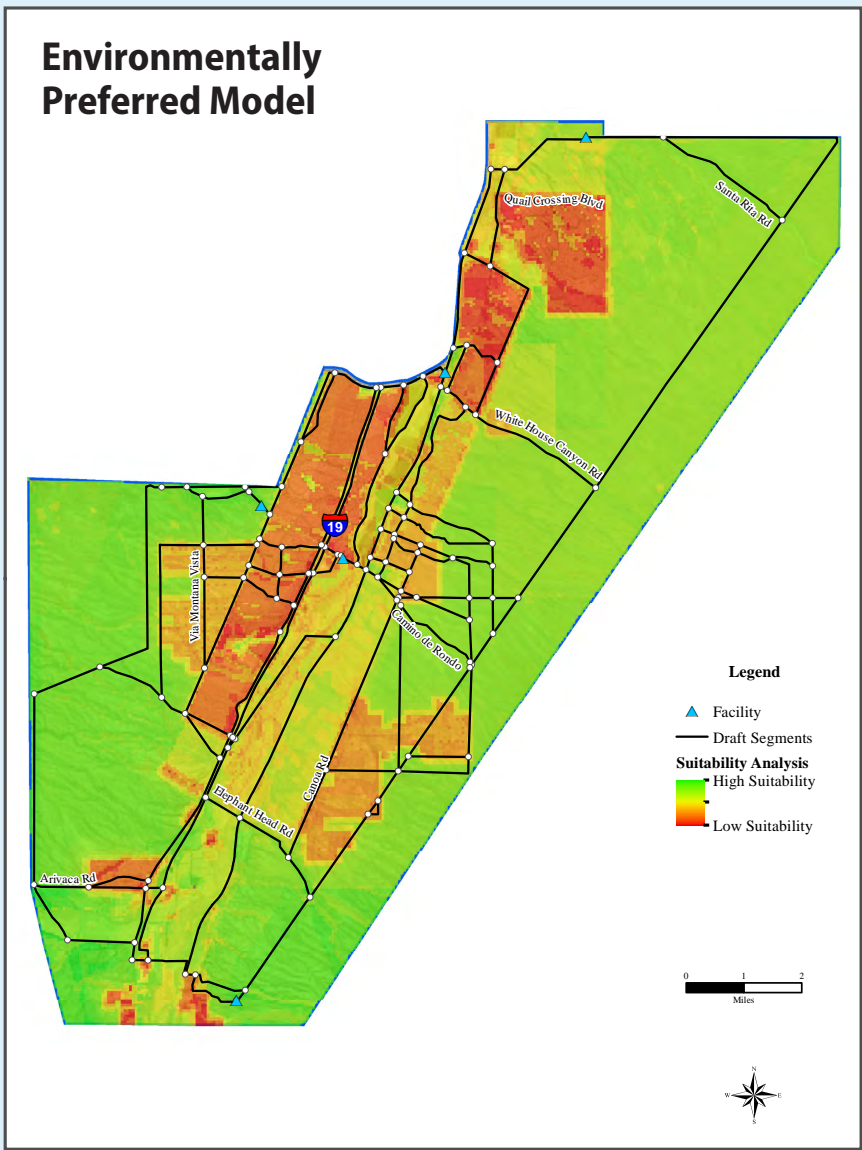
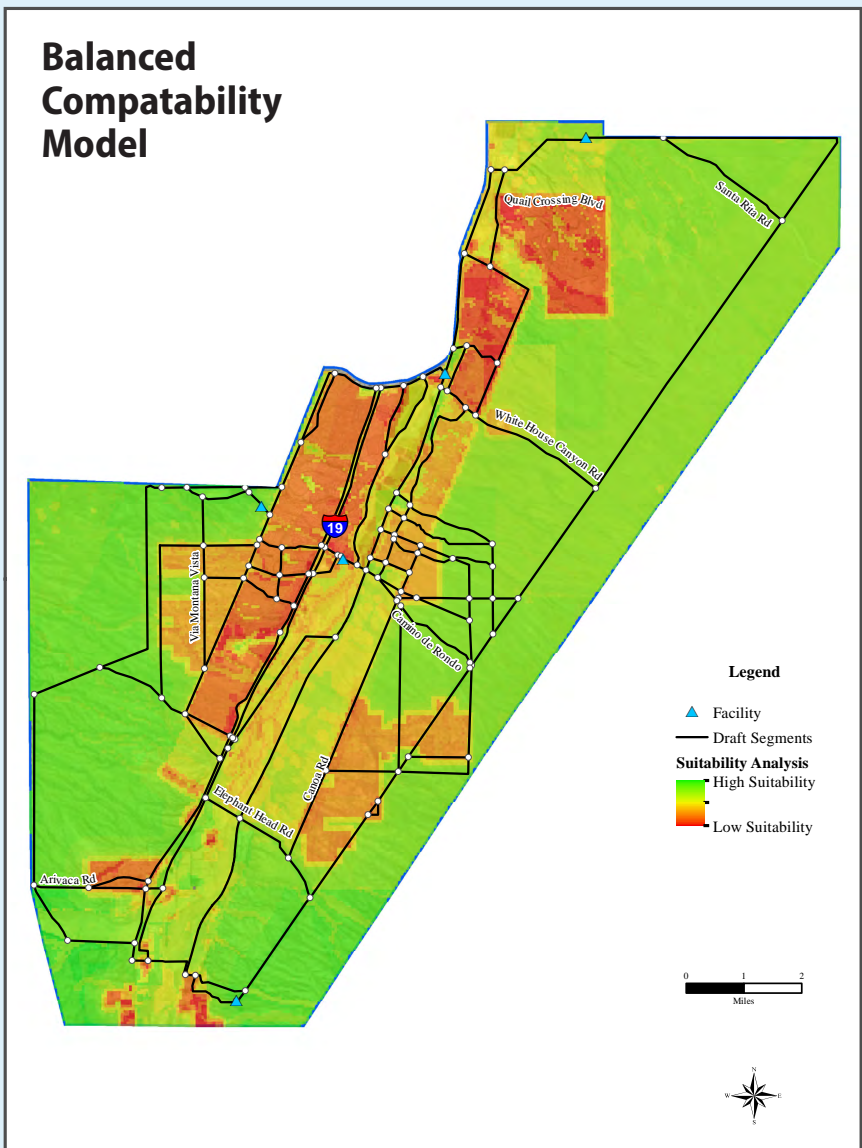
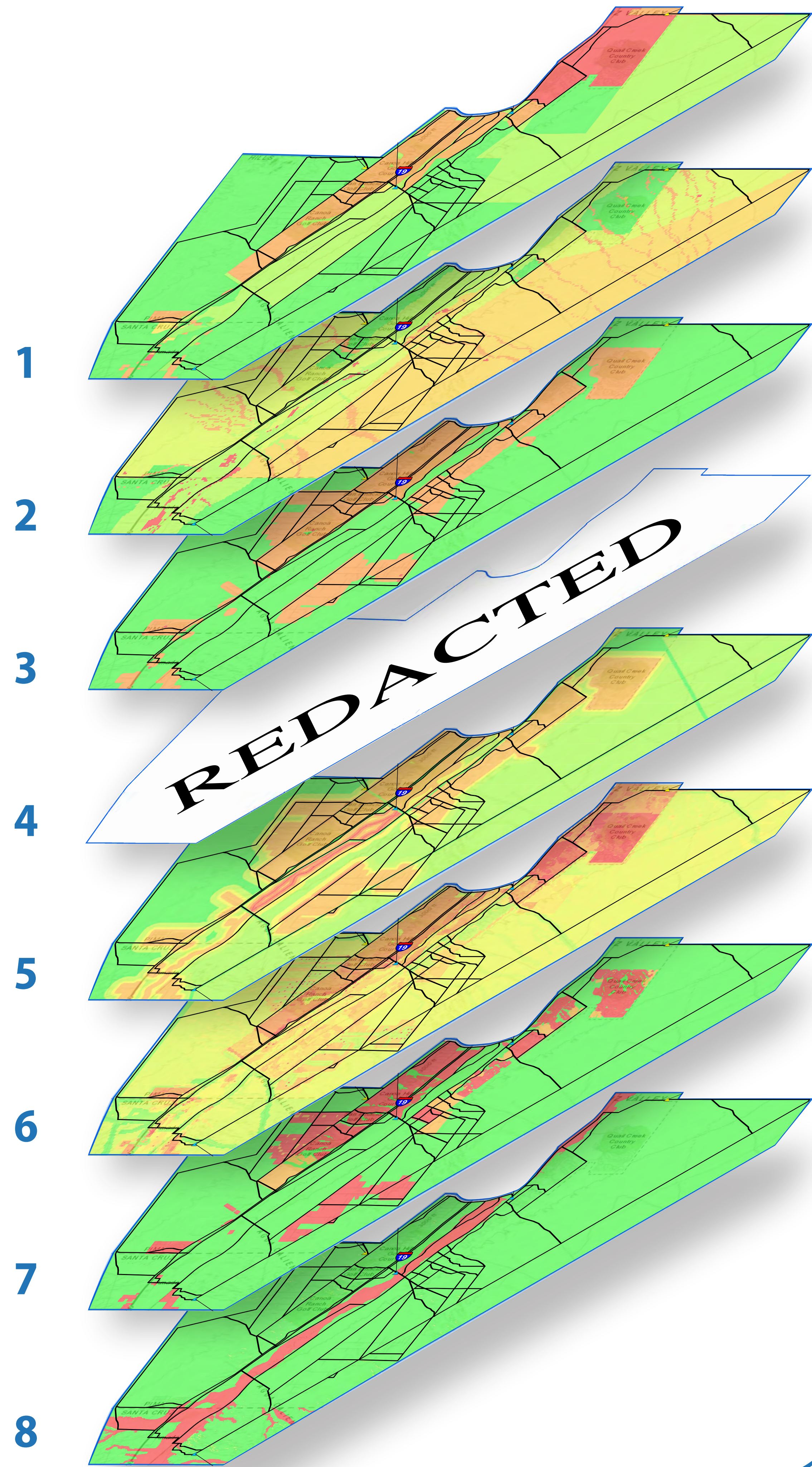
Low Suitability

0 1 2 Miles

This map is for planning purposes only. UniSource makes no warranty of its accuracy.

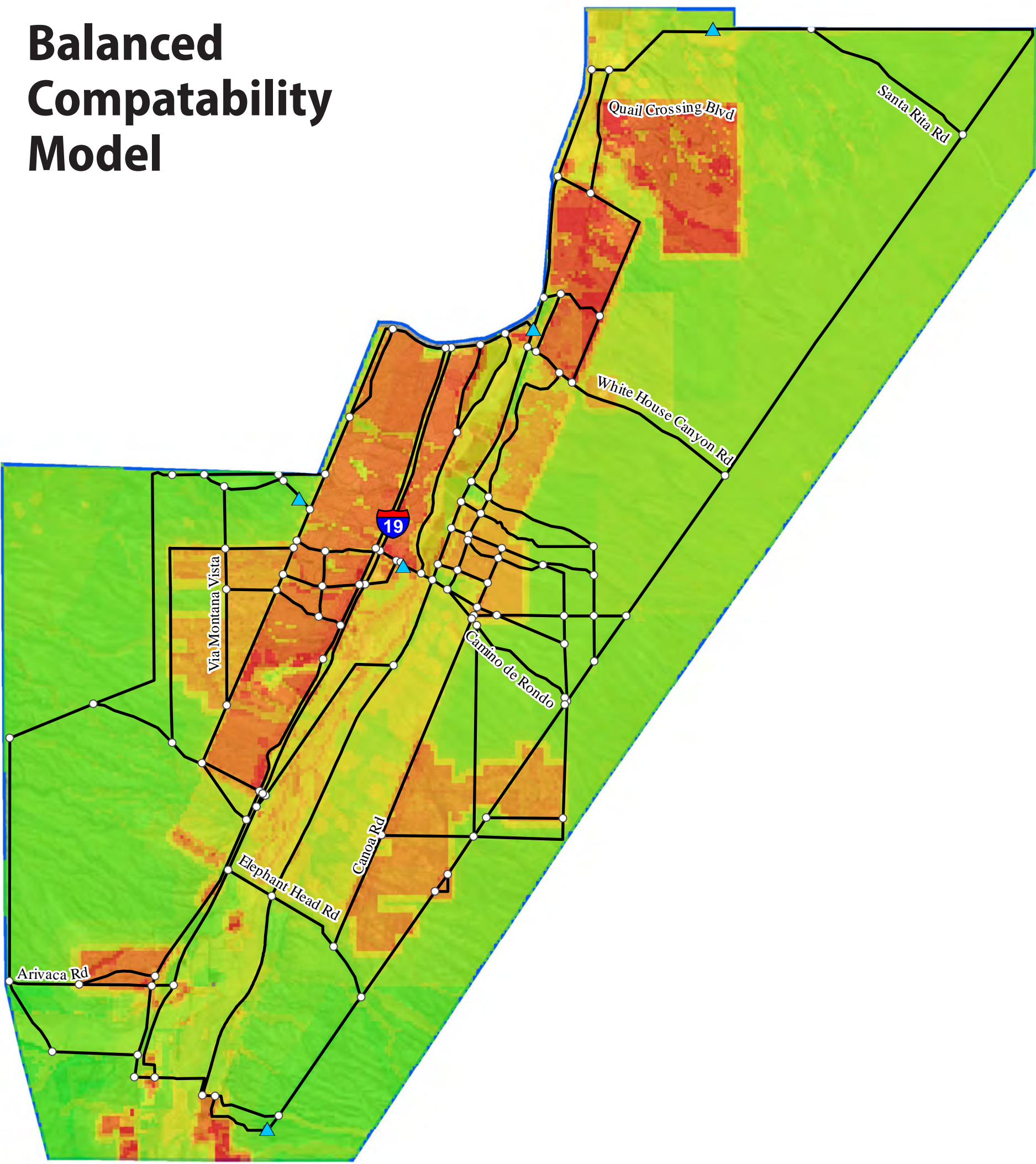
Composite Suitability Methodology

- Criteria 1: Existing Plans
- Criteria 2: Biological Resources
- Criteria 3: Noise & Communication
- Criteria 4: Cultural and Historical Resources
- Criteria 5: Visual Resources
- Criteria 6: Total Environment
- Criteria 7: Existing and Future Residential Properties Adjacent to Transmission Lines
- Criteria 8: Construction & Maintenance

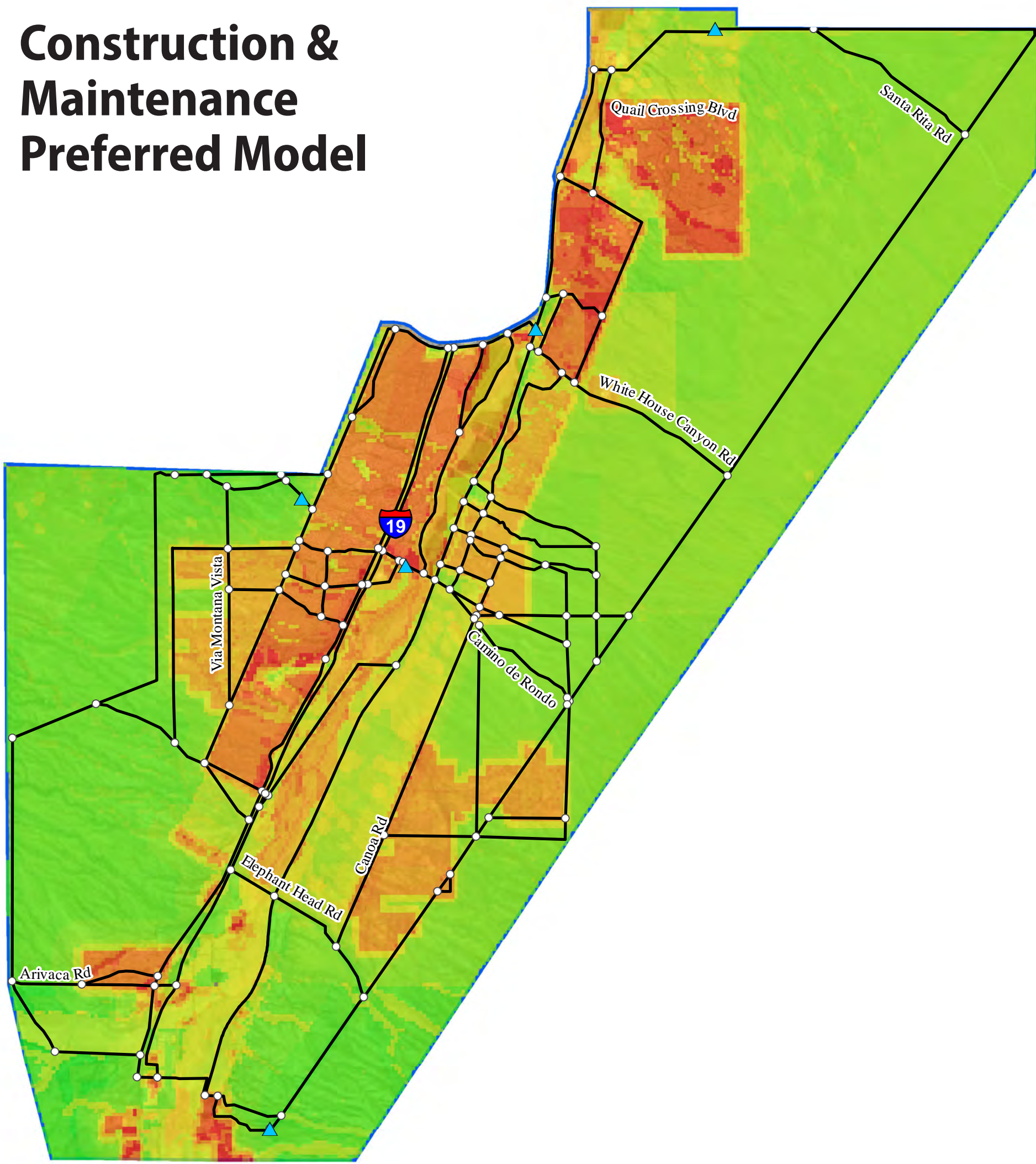


Composite Suitability Models

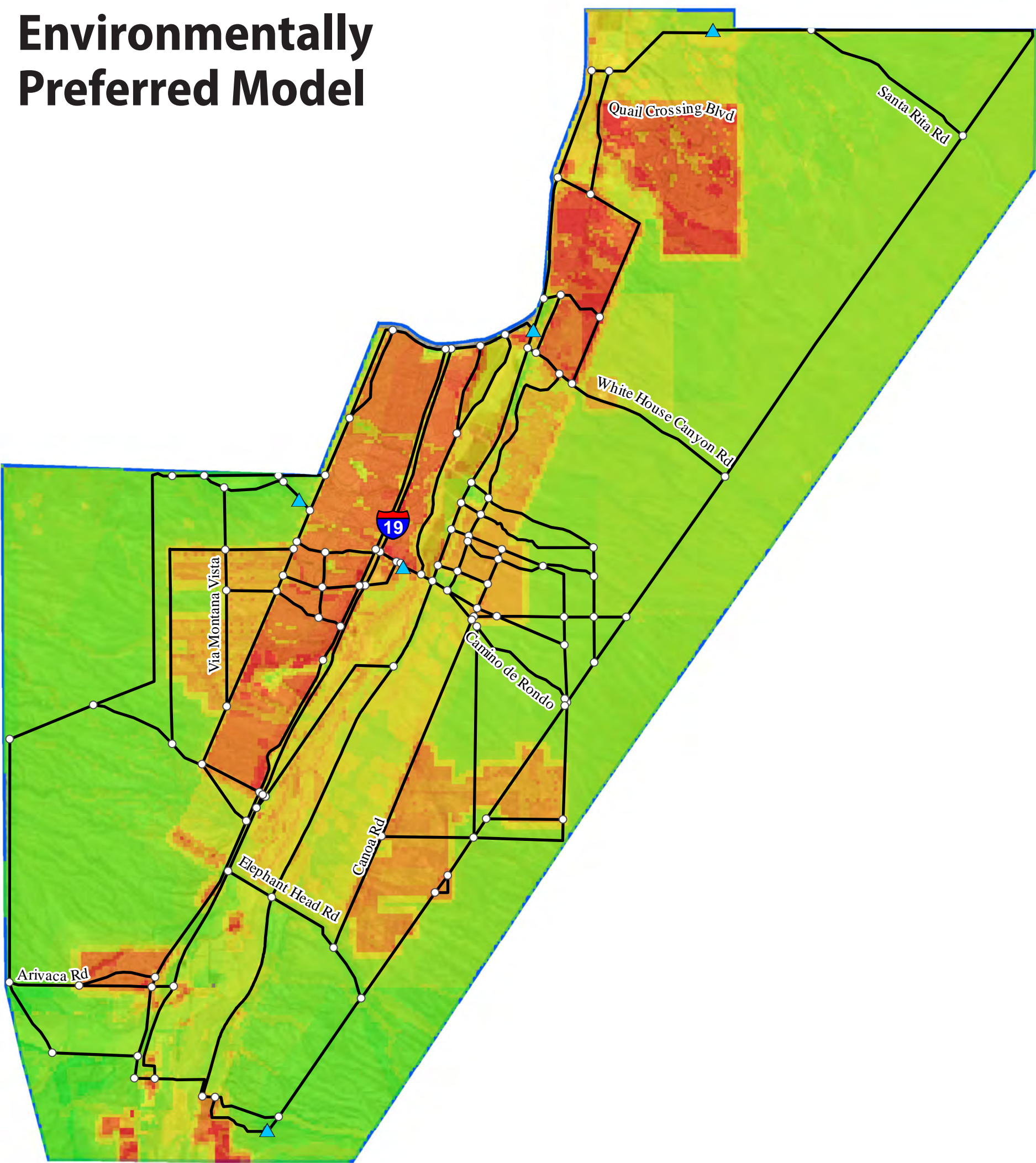
Balanced
Compatability
Model



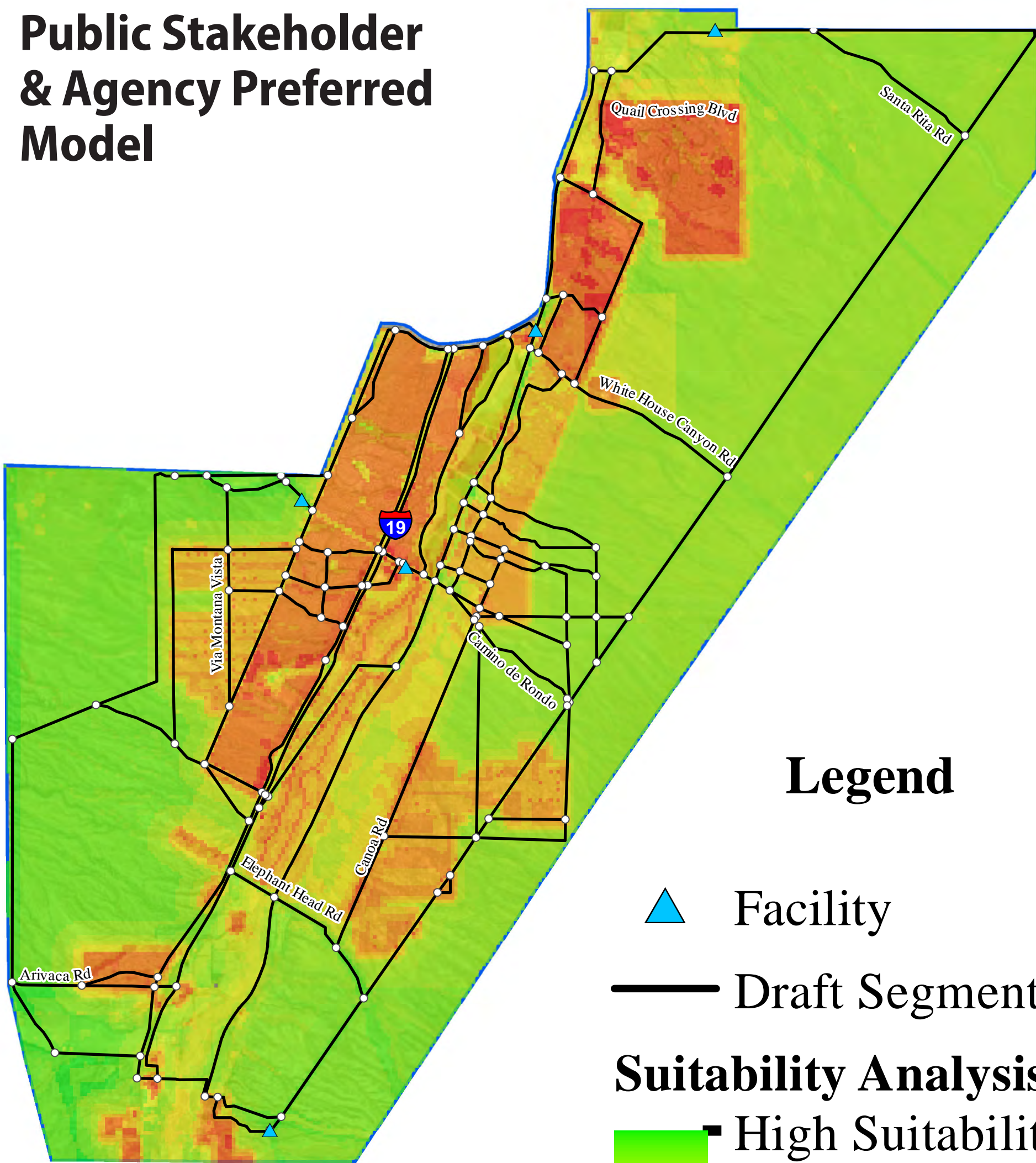
Construction &
Maintenance
Preferred Model



Environmentally
Preferred Model

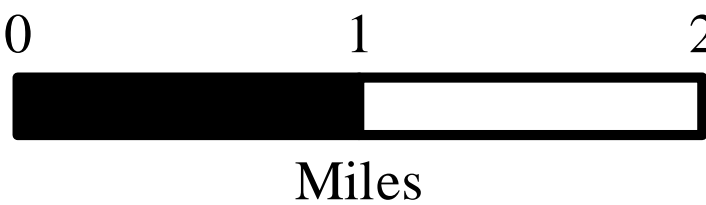


Public Stakeholder
& Agency Preferred Model

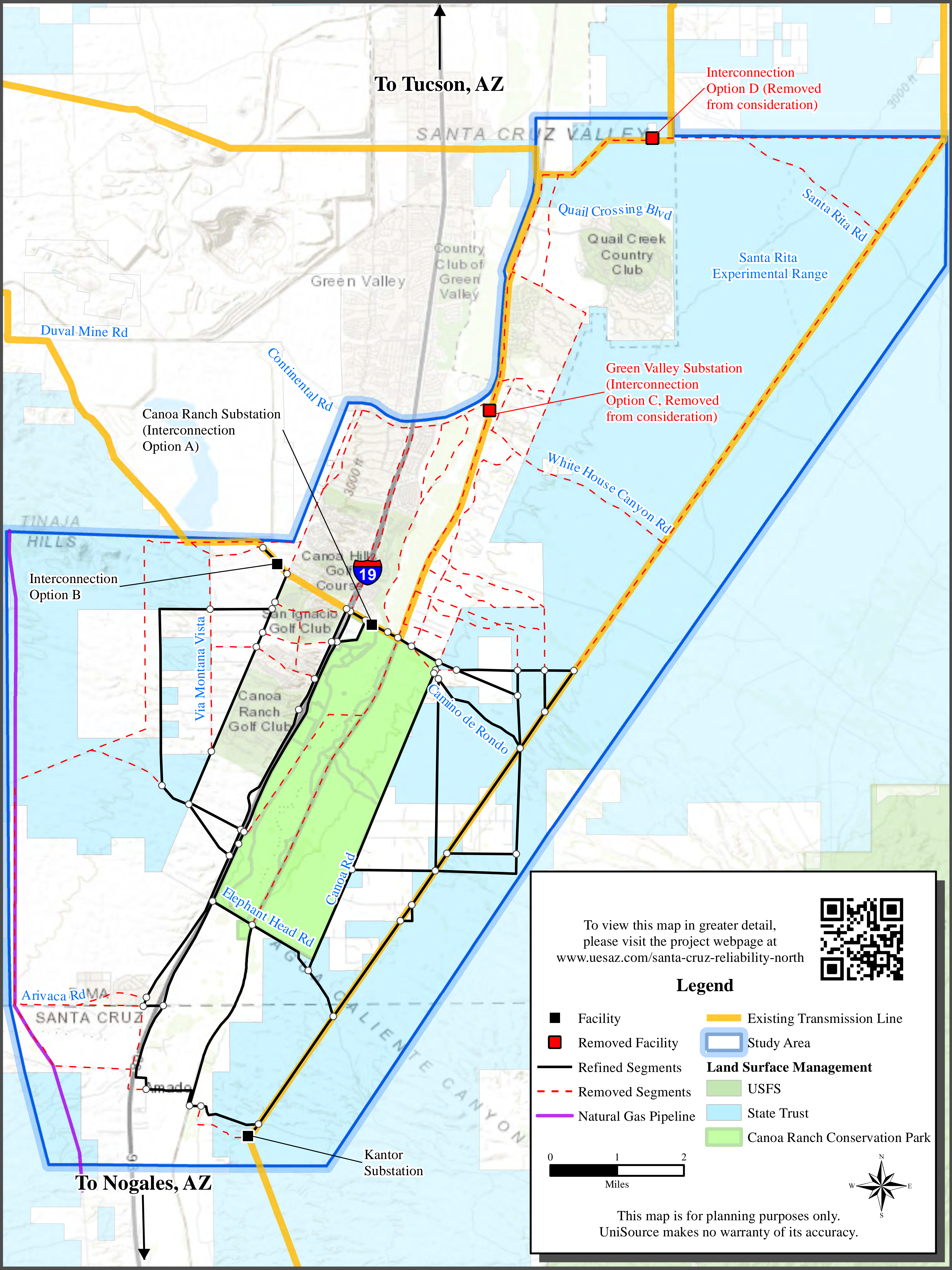


Legend

- ▲ Facility
- Draft Segments
- Suitability Analysis**
 - High Suitability
 - Low Suitability




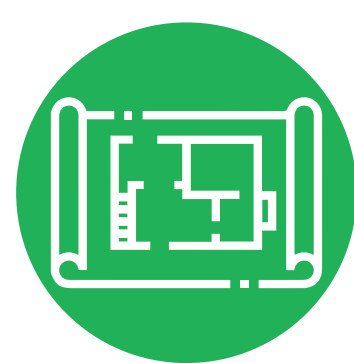
Refined Segments





Siting Considerations


UniSource considers several factors when pursuing a Certificate of Environmental Compatibility. These factors, used to analyze potential line routes, include:


- 


Wildlife & plant life
- 


Existing and planned land uses
- 

Scenic areas, historic sites & archaeological sites and structures
- 

Engineering feasibility and challenges
- 

Environment
- 

Project costs & potential impacts on customer rates
- 

Noise emission levels & interference with communication signals
- 

Potential public recreational uses

Public Input

We Hear You!

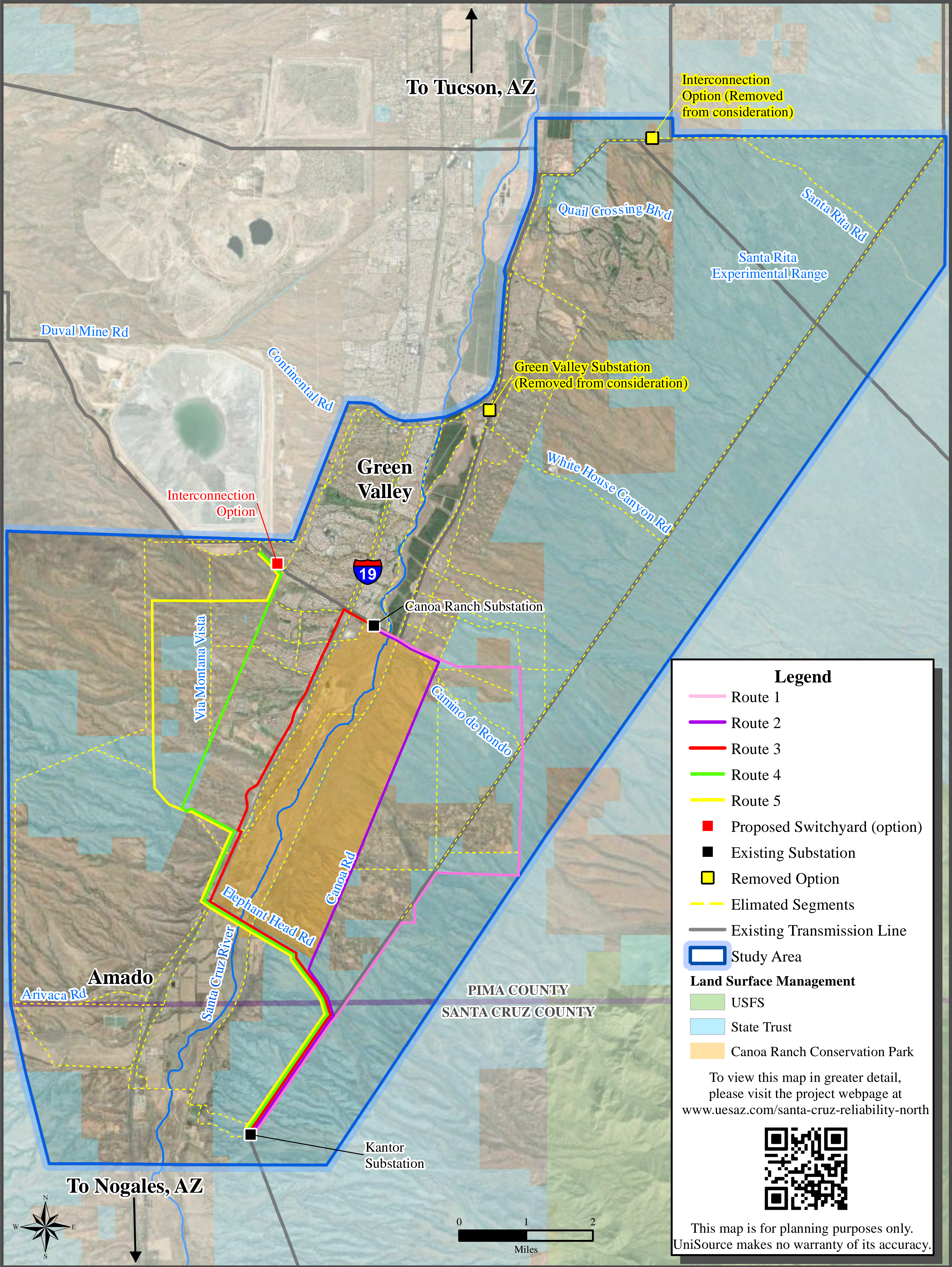
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Proximity to residential areas
- 

Impact on mountain views from residential areas
- 

Public health, welfare, and safety

Route Alternatives



We Want To Hear From You

How to Provide Official Public Comment:

Fill out an online comment form at:
uesaz.com/santa-cruz-reliability-north

Email comments to:
scrnorth@uesaz.com

Call:
(520) 917-6635 and leave a voicemail
message

Mail a letter with comments to:
ATTN: Santa Cruz Reliability North
P.O. Box 711
Mail Stop CB200
Tucson, AZ 85701-0711

An interactive map is posted on our website.

More Information
uesaz.com/santa-cruz-reliability-north/



Cómo proporcionar un comentario público oficial:

Llenando un formulario de comentarios en línea:
uesaz.com/proyecto-de-confiabilidad-de-santa-cruz-norte

Enviando comentarios por correo electrónico a:
scrnorth@uesaz.com

Llamando al:
(520) 917-6635 y dejando un mensaje de voz

Enviando una carta con comentarios a:
A/A: Confiabilidad de Santa Cruz Norte
P.O. Box 711
Mail Stop CB200
Tucson, AZ 85701-0711

Para ver un mapa interactivo, visite la página
web del proyecto.

Más información
uesaz.com/proyecto-de-confiabilidad-de-santa-cruz-norte

