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Santa Cruz Reliability Project North

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Santa Cruz Reliability Project North

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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

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Legend

- In-Service 138 kV Transmission Line
- Undetermined 138 kV Transmission Line
- Upgraded 138 kV Transmission Line
- In-Service 138 kV Substation
- Proposed 138 kV Substation

0 5 10 Miles

N

THIS PROJECT

Phase 1 - SCR North

Regional Grid (TEP)

UNDETERMINED ROUTE

Kantor (UNSE)

2024-2025: Planning and Siting
2027-2028: Construction

Phase 2 - Nogales Tap-Kantor

Vail (TEP)

Nogales Tap (WAPA)

Kantor (UNSE)

CEC Issued in 2017 under Decision 76468
2028-2029: Construction

Phase 3 - SCR South

Kantor (UNSE)

Cañez (UNSE)

Sonoita (UNSE)

Valencia (UNSE)

Gateway (UNSE)

UNDETERMINED ROUTE

2025-2026: Planning and Siting
2029-2030: Construction

For more information on the project, please visit
uesaz.com/santa-cruz-reliability/

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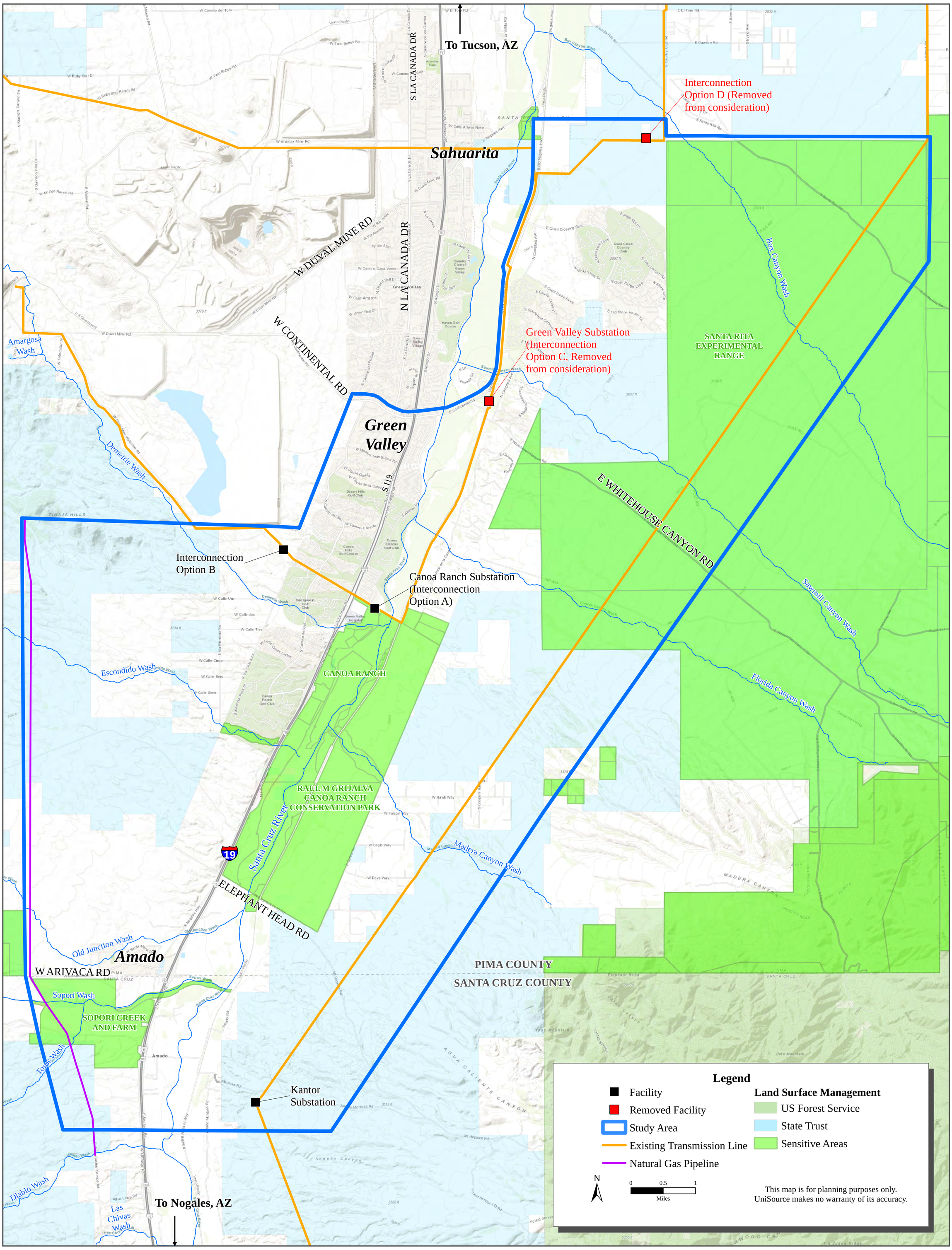
Study Area



Our Energy Grid
How we deliver electric service to you

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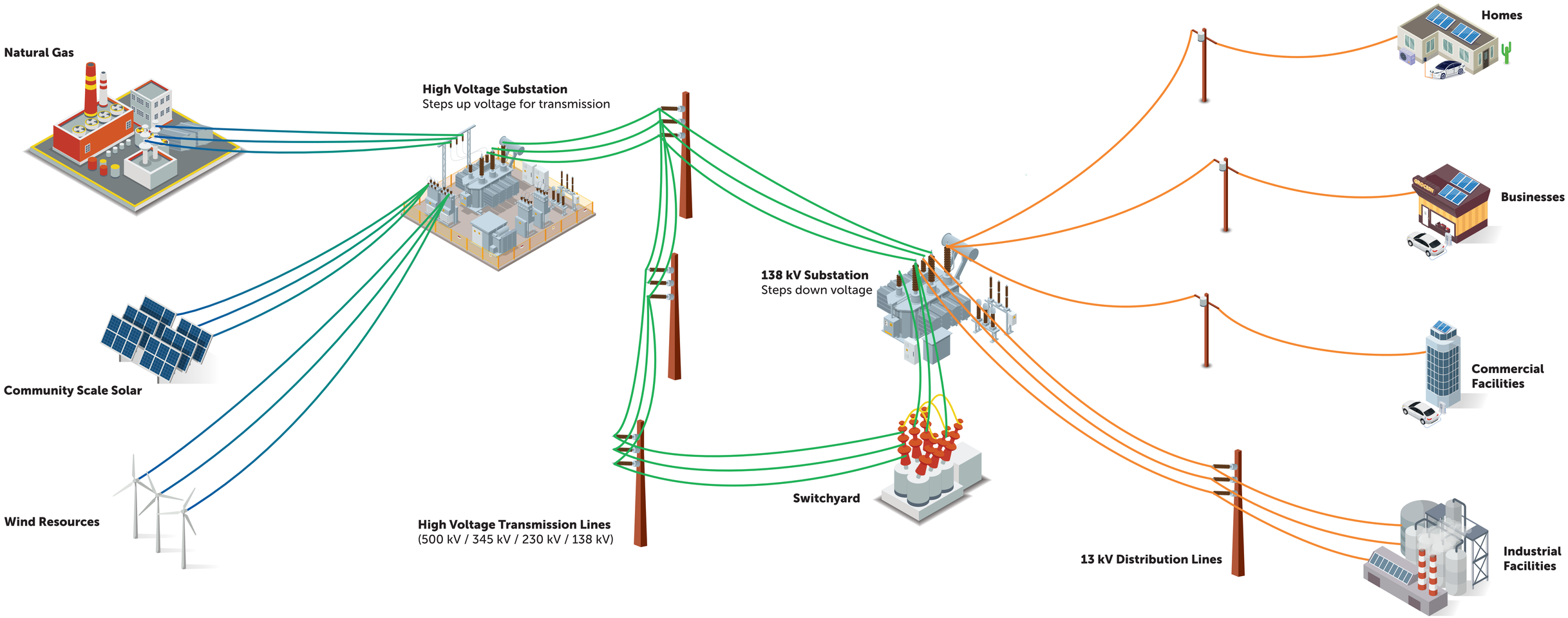

Generation

Transmission and Sub-Transmission

Distribution

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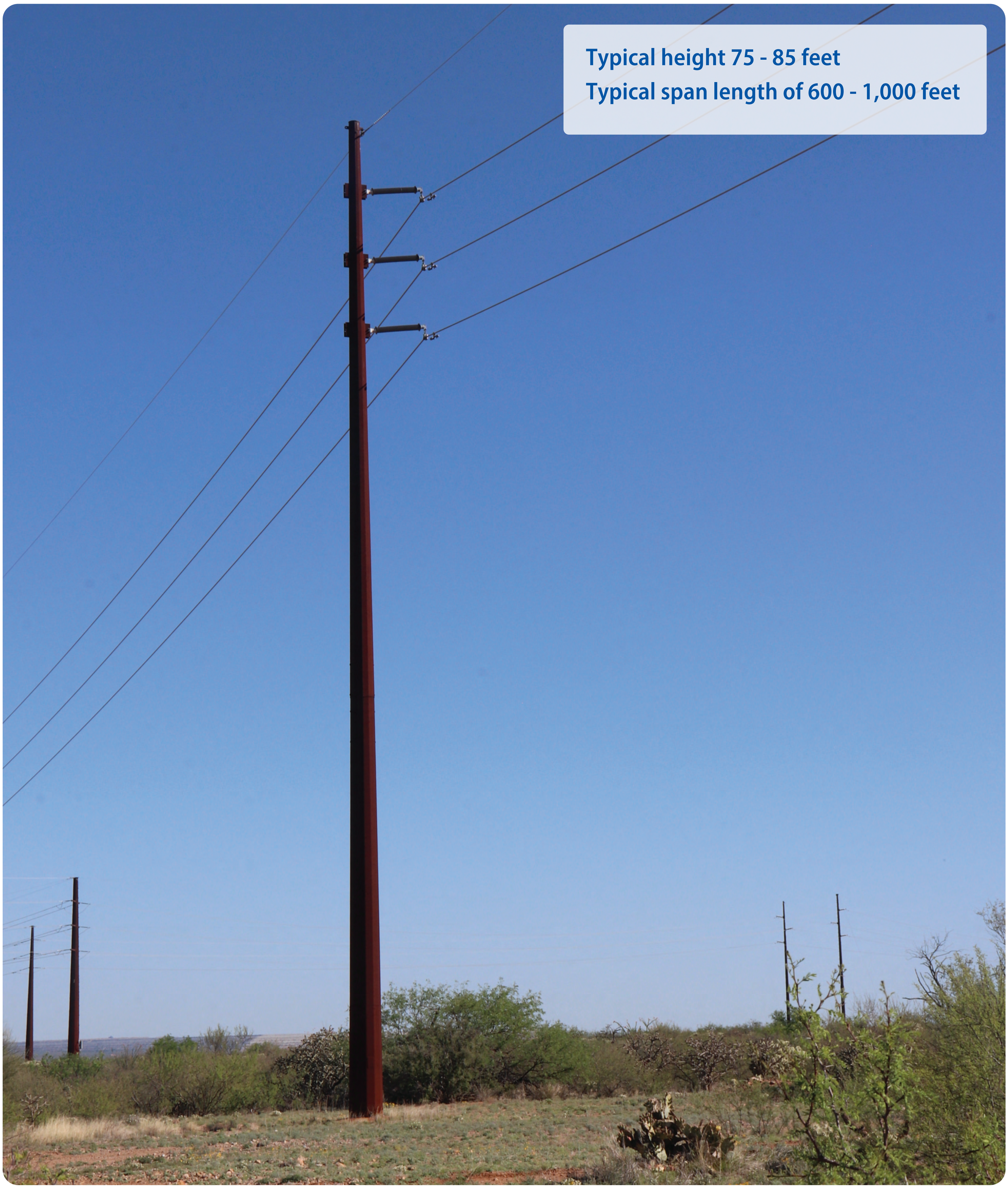
Example Pole Structure

Tubular, Weathering Steel Monopoles



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Kantor Substation Upgrades

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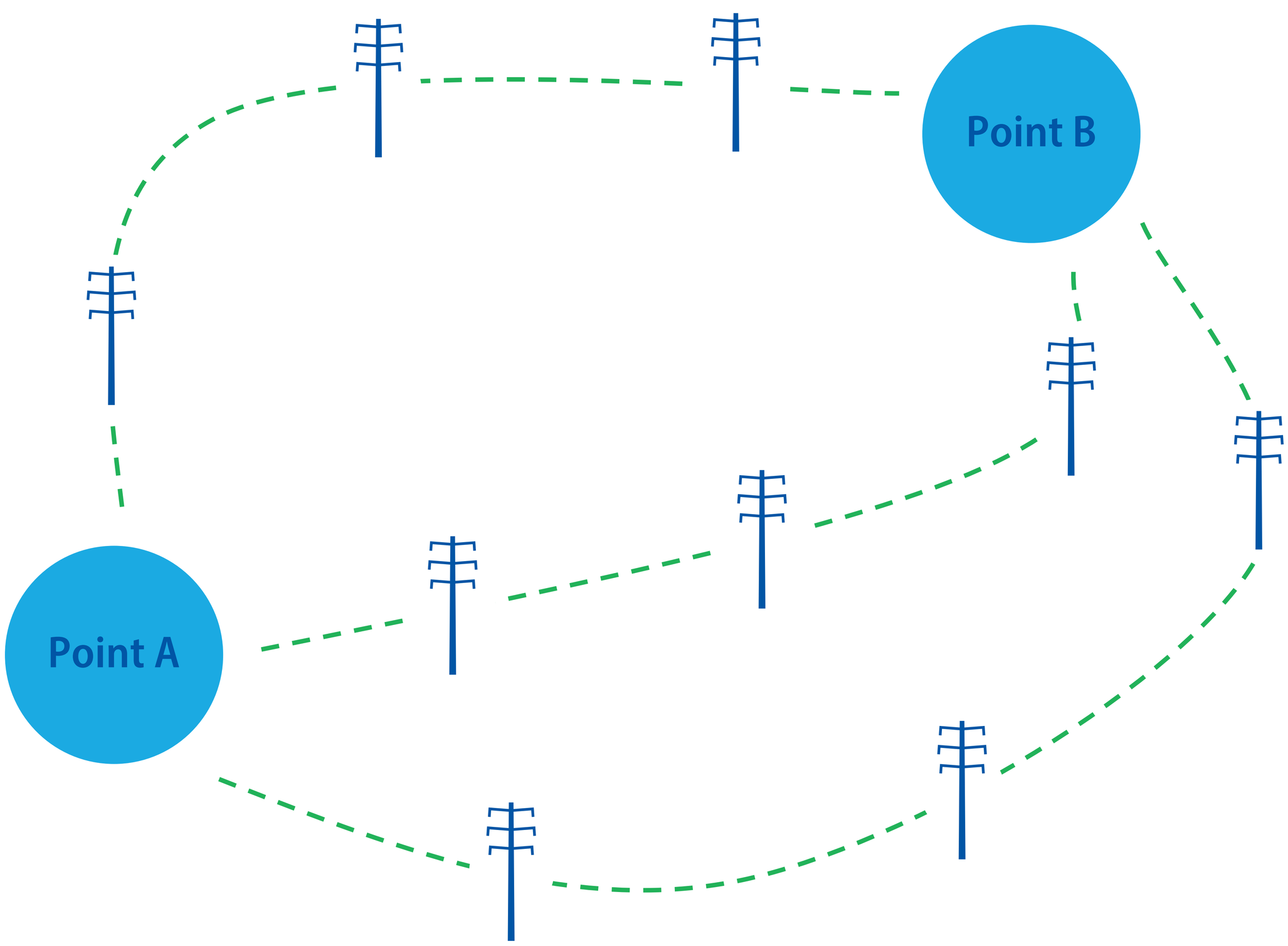
What is Siting?

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.

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Project Route Development and Evaluation

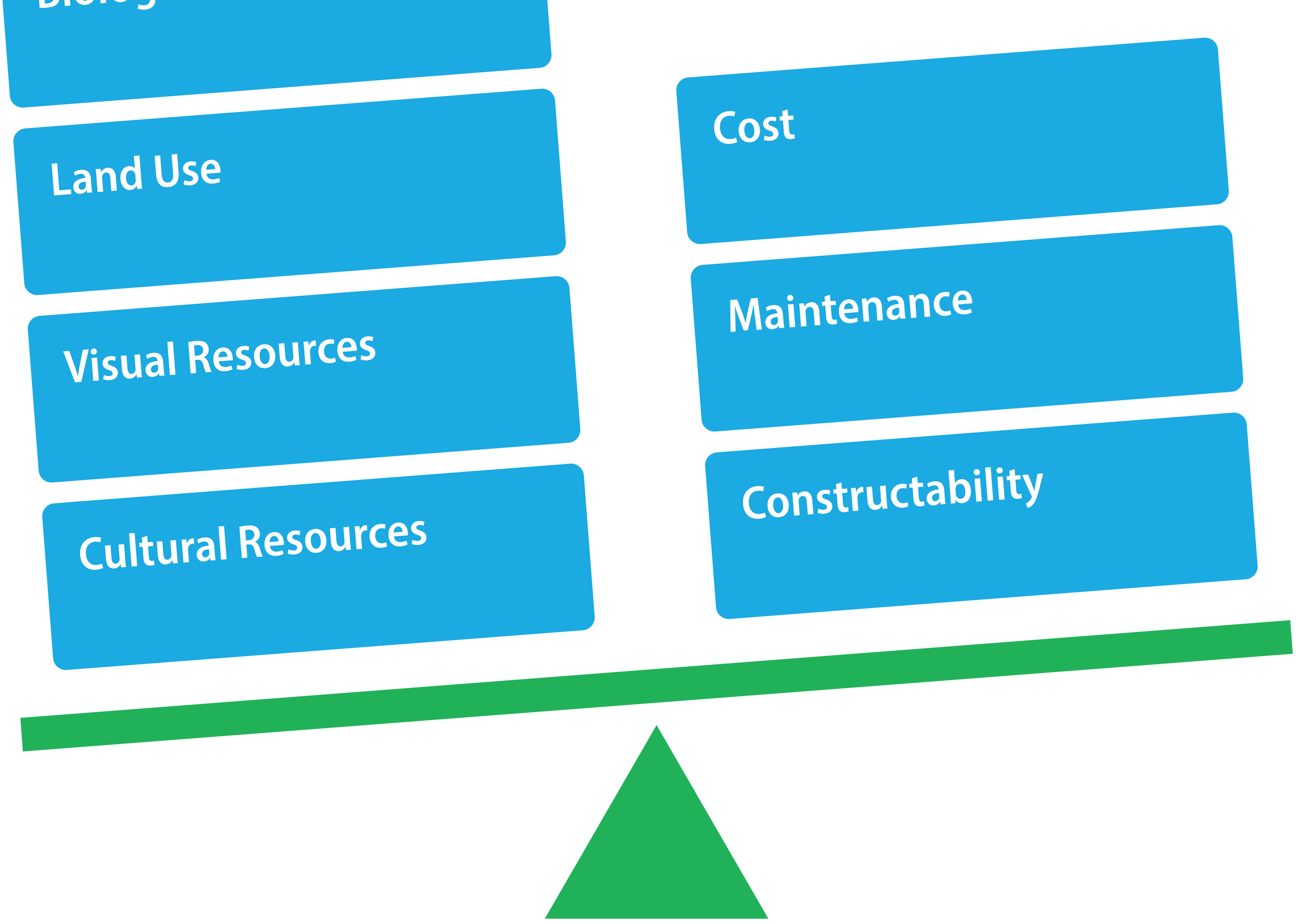
UniSource considers factors important to the community and environment, and balances them with constructability, maintenance, and cost to find the most suitable path for the transmission line that satisfies the need for the project.

Suitability Factors

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

Practicability

- Cost
- Maintenance
- Constructability



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Siting Considerations

The Arizona Corporation Commission will consider several factors before approving a Certificate of Environmental Compatibility. These factors, used by UniSource to analyze potential line routes, include:

- Wildlife & plant life
- Scenic areas, historic sites & archaeological sites and structures
- Environment
- Noise emission levels & interference with communication signals
- Potential public recreational uses
- Existing development plans
- Engineering feasibility and challenges
- Project costs & potential impacts on customer rates
- Public input

Interested in shaping the evaluation of transmission line routes? Scan the QR code or complete a comment form to share your perspective on the values that matter most to you in this assessment.

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Siting Process Flowchart

Phase 1: **Pre-Analysis**

Conduct Field Visits
Develop Study Area
Identify Opportunities and Constraints
Conduct Public and Stakeholder Outreach
Develop Preliminary Segments

Phase 2: **Data Inventory**

Conduct Research and Collect Data

Phase 3: **Suitability Assessment**

Develop Suitability Models
Conduct Suitability Assessment
Field Review
Conduct Public and Stakeholder Outreach
Refine Segments

Phase 4: **Compatibility Analysis**

Conduct Compatibility Analysis
Develop Route Alternatives
Field Review

We Are Here

Phase 5: **Concept Evaluation**

Conduct Public and Stakeholder Outreach
Identify Preferred Route
Submit CEC Application
Public Notification and Hearing

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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

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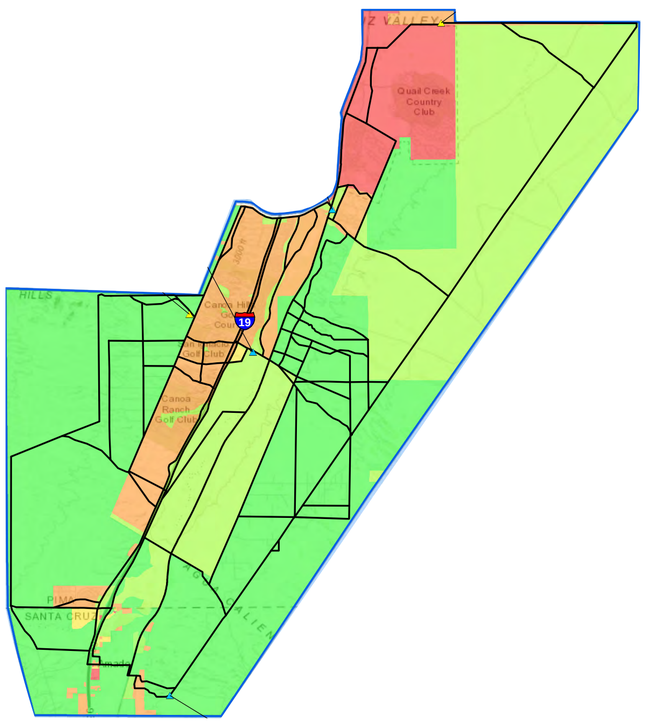
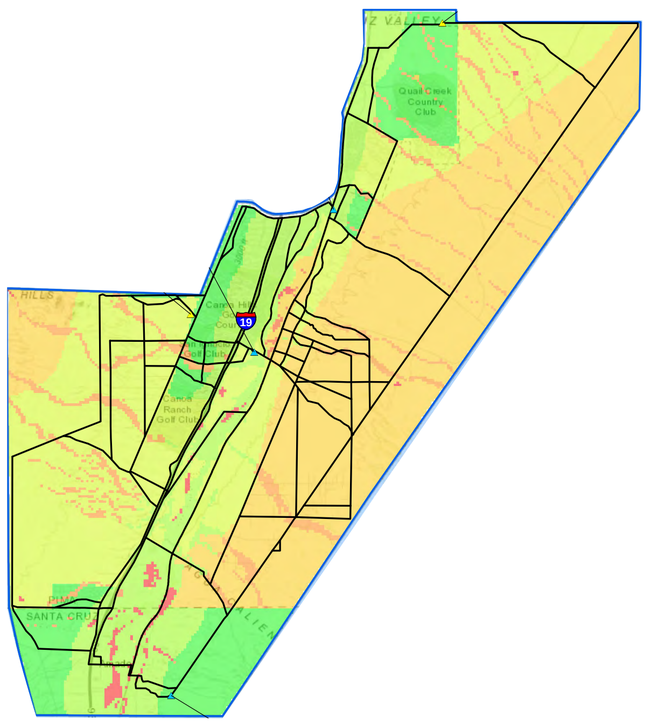
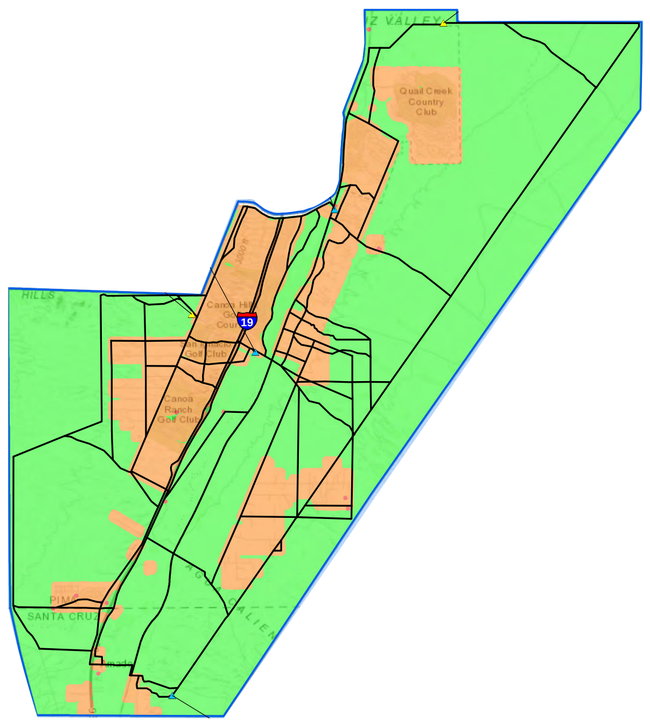
Suitability Criteria



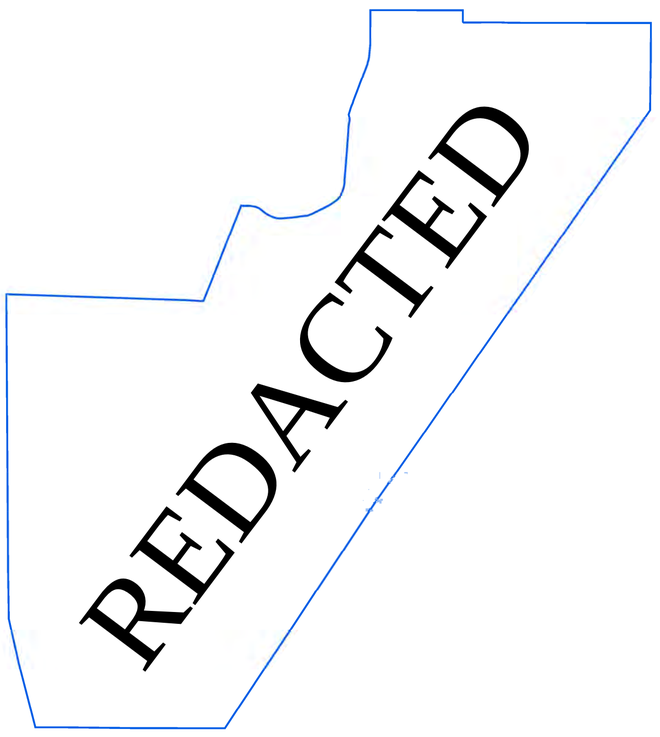
Existing Plans



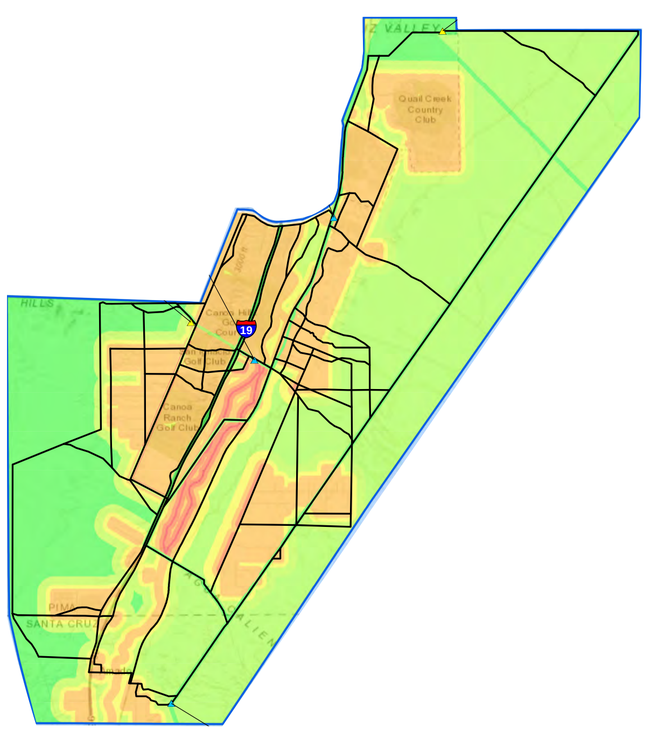
Biological Resources



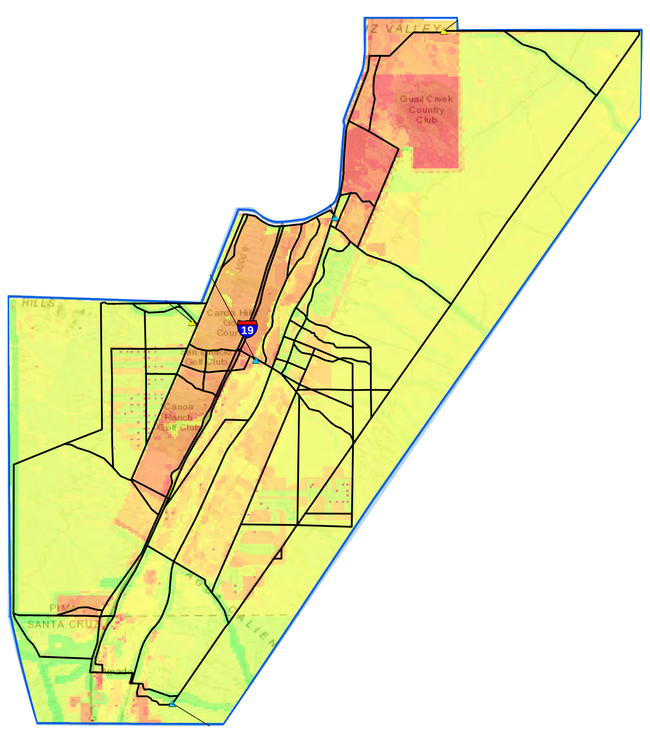
Noise & Communication



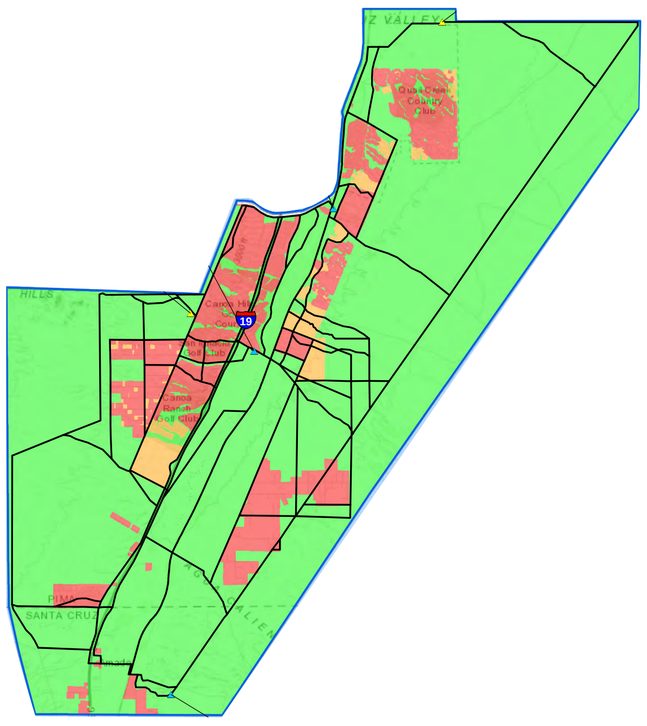
Cultural & Historical Resources



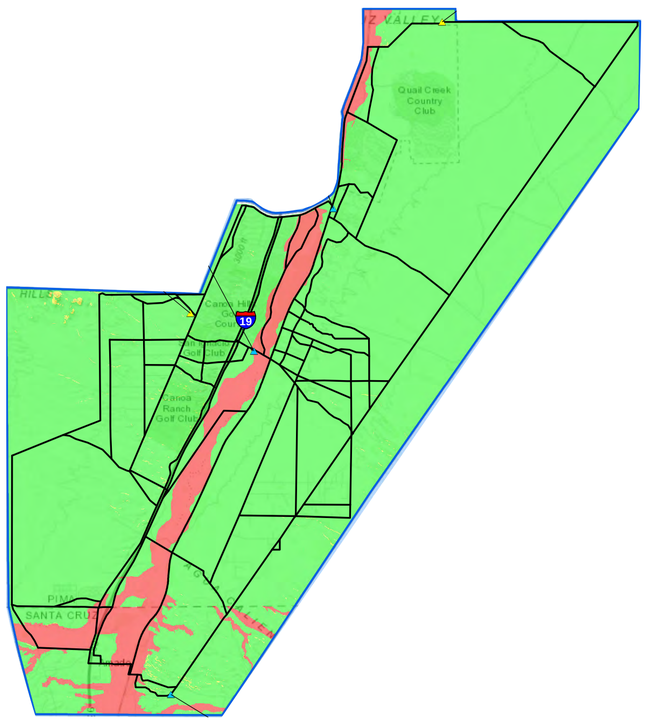
Visual Resources



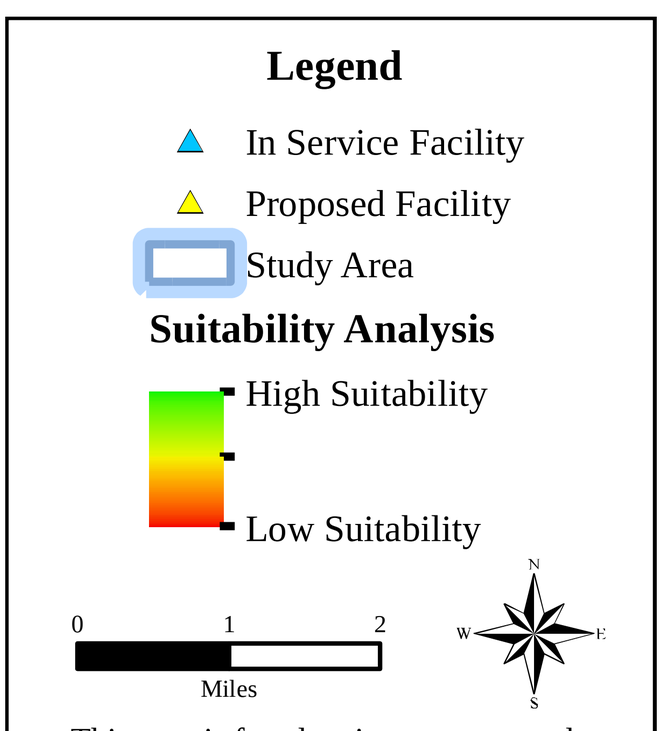
Total Environment



Existing and Future Residential Properties Adjacent to Transmission Lines



Construction & Maintenance



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

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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

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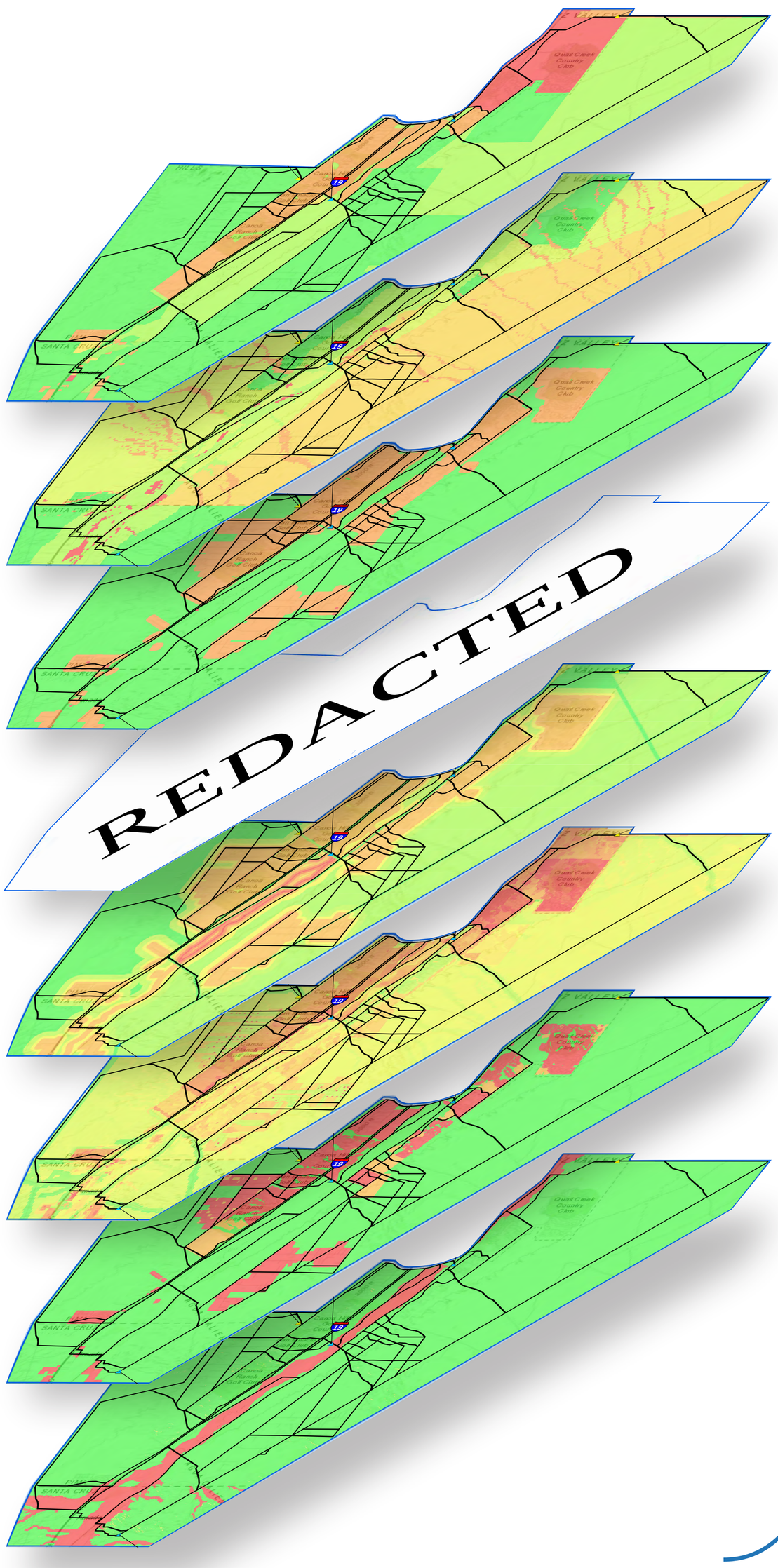
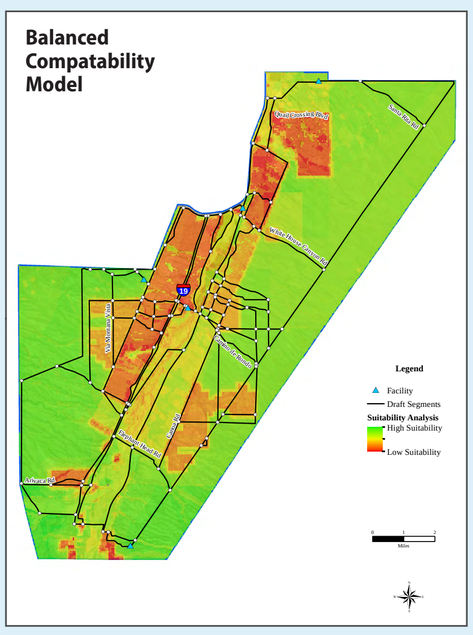
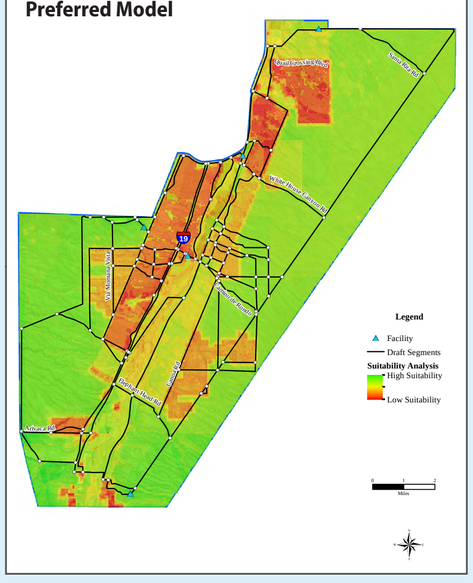


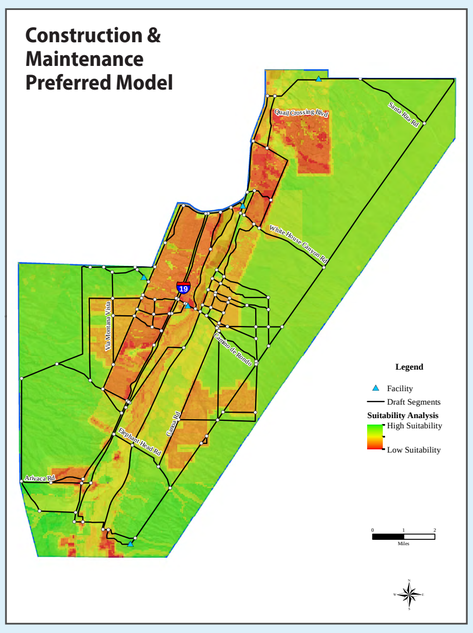
Balanced Compatability Model



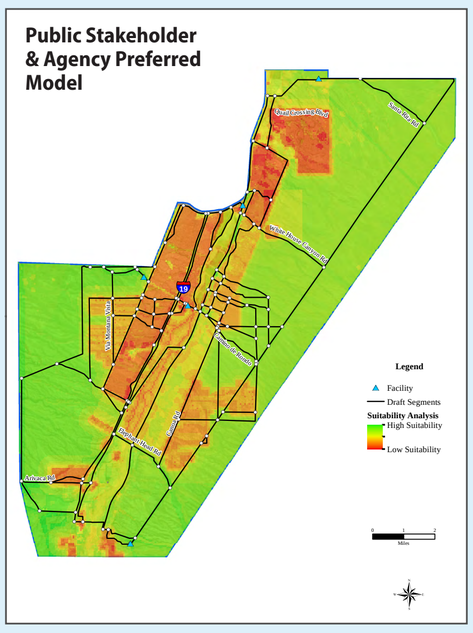
Environmentally Preferred Model



Construction & Maintenance Preferred Model



Public Stakeholder & Agency Preferred Model



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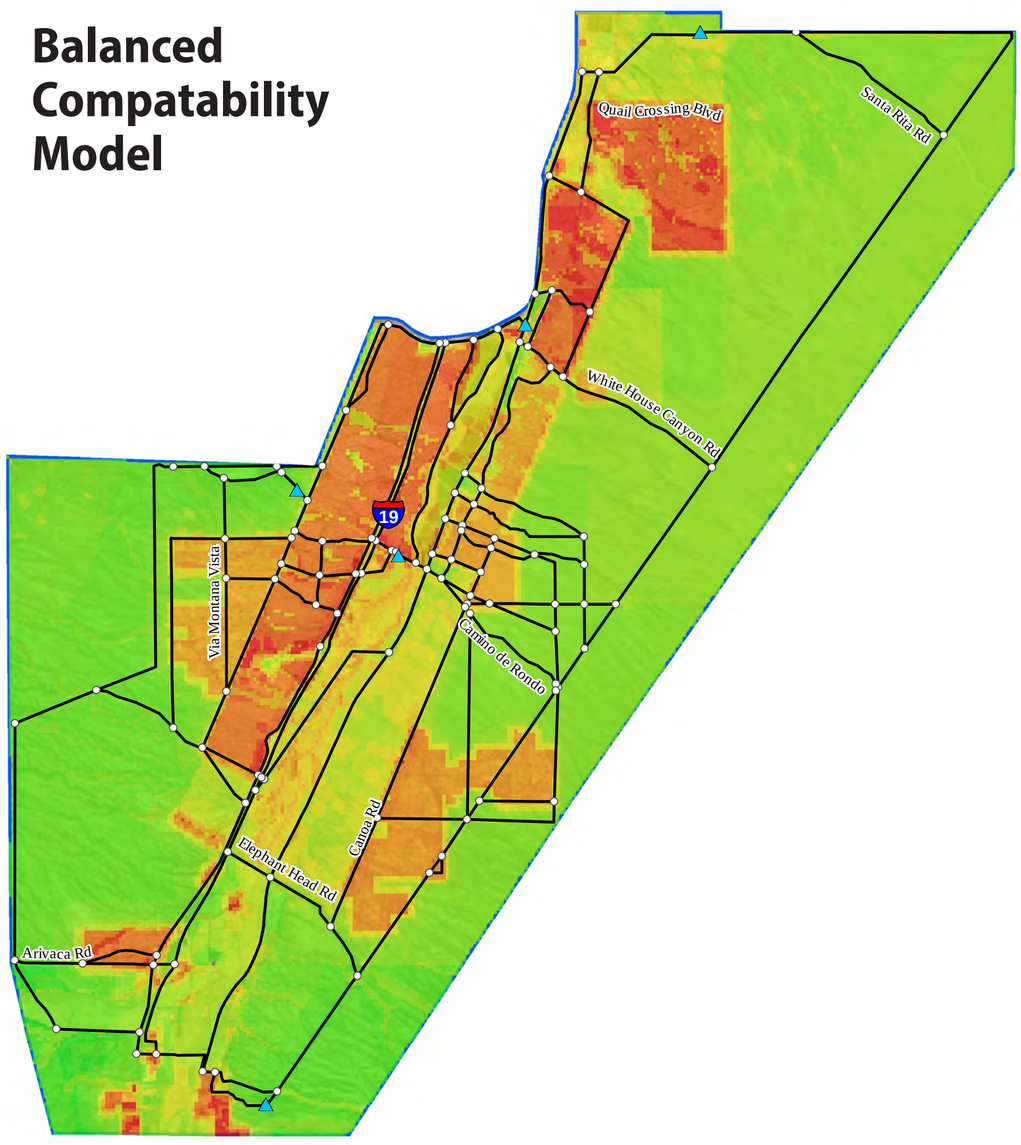
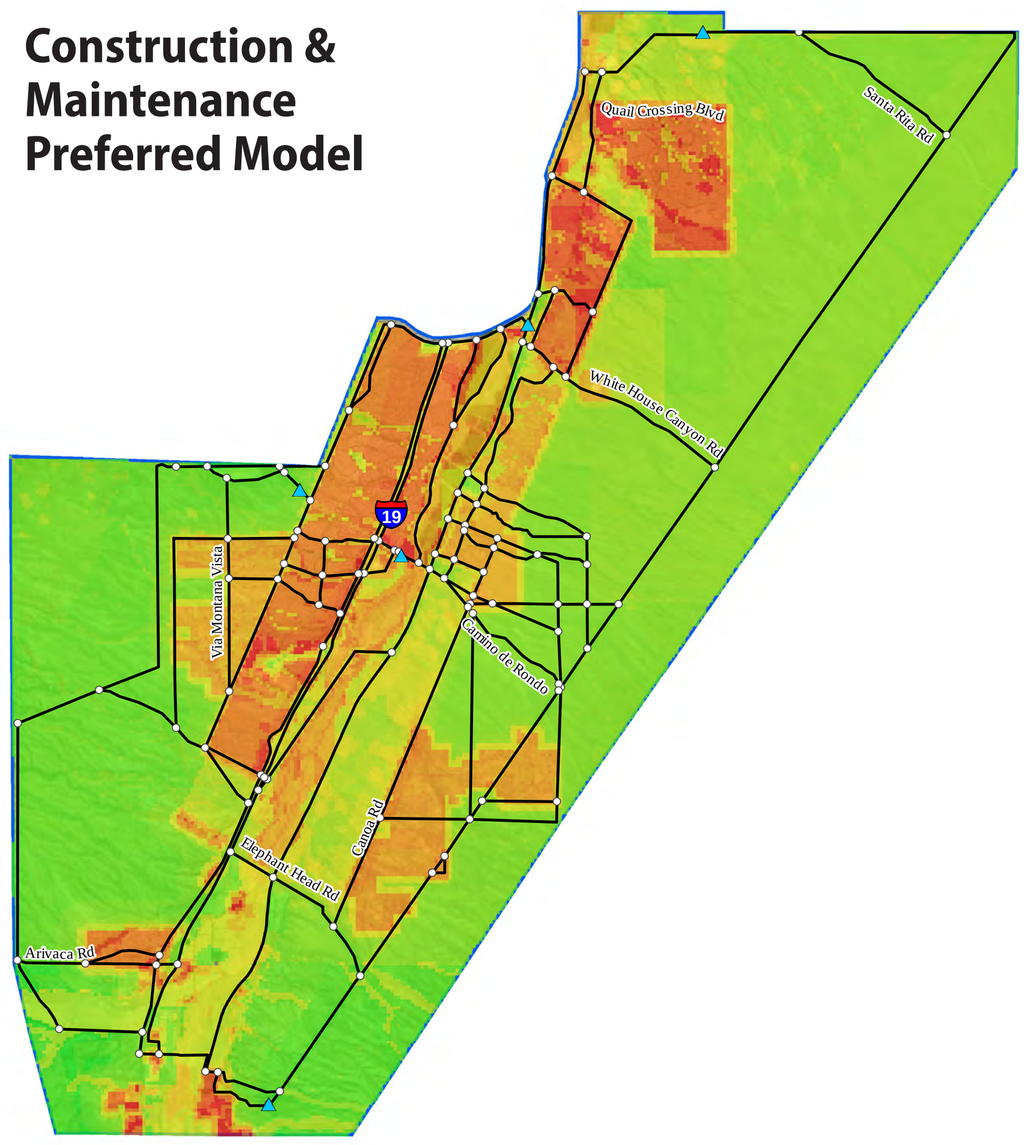
Composite Suitability Models

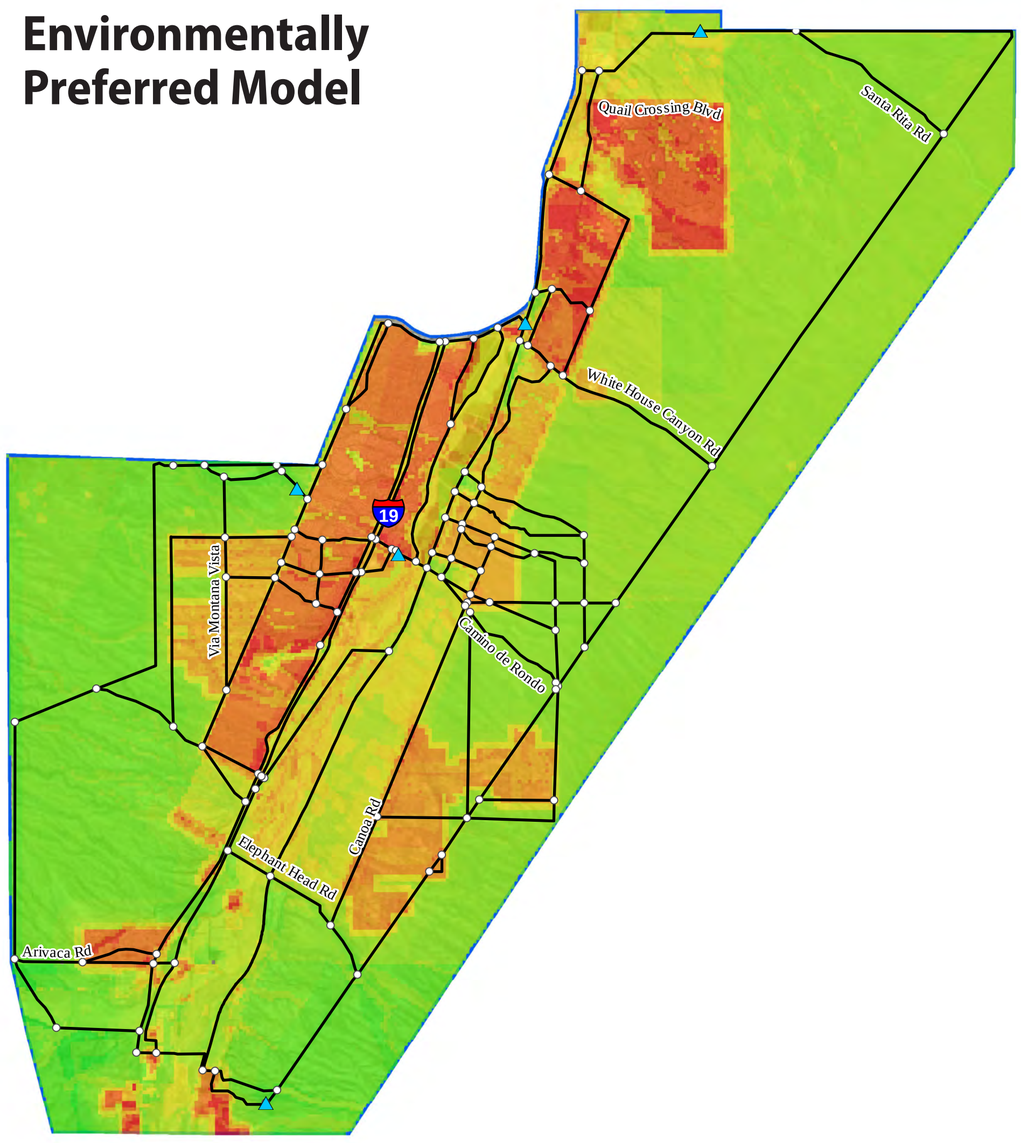
Balanced Compatability Model



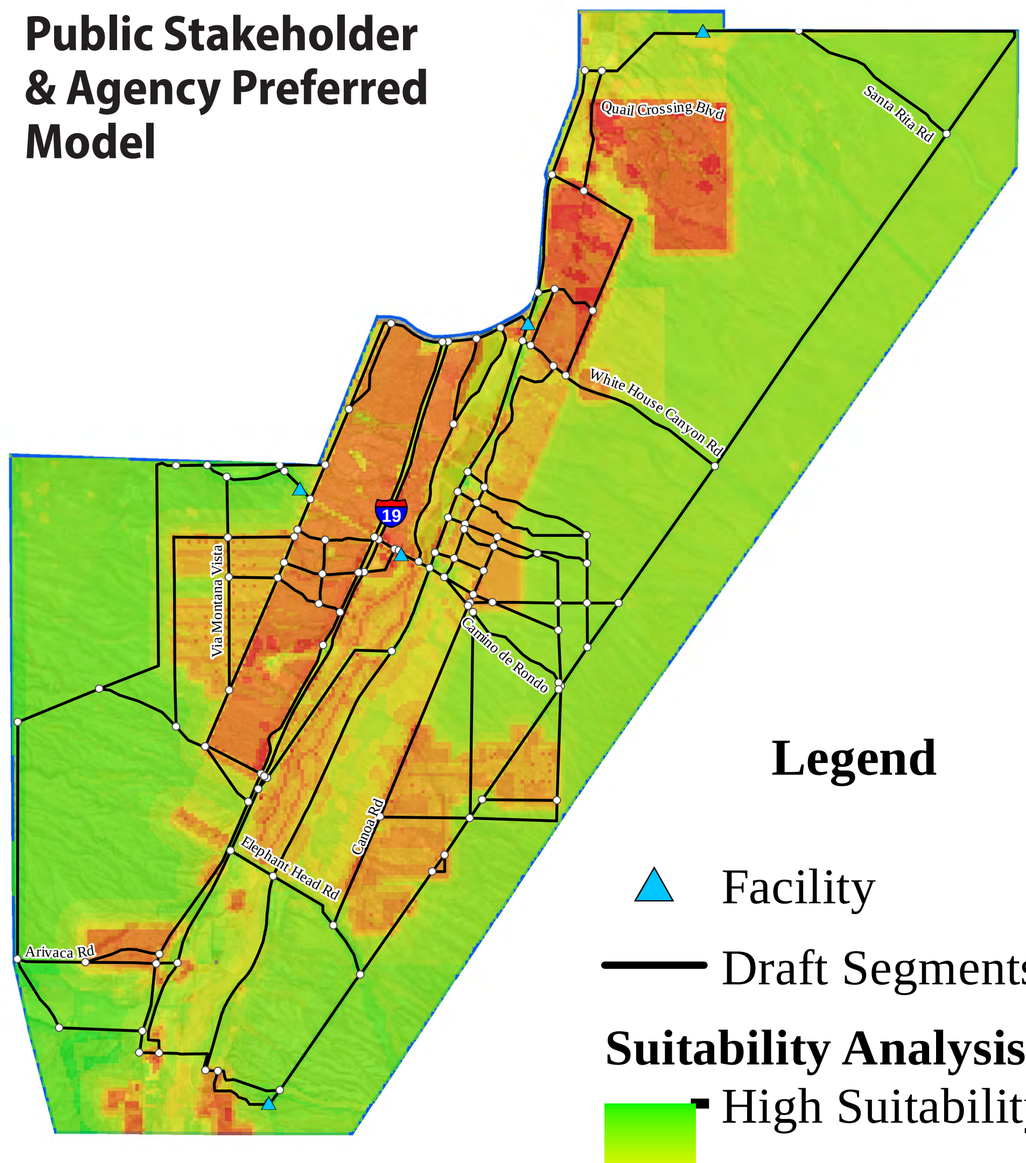
Construction & Maintenance Preferred Model



Environmentally Preferred Model



Public Stakeholder & Agency Preferred Model



Legend

Facility

Draft Segments

Suitability Analysis

High Suitability

Low Suitability

0 1 2

Miles

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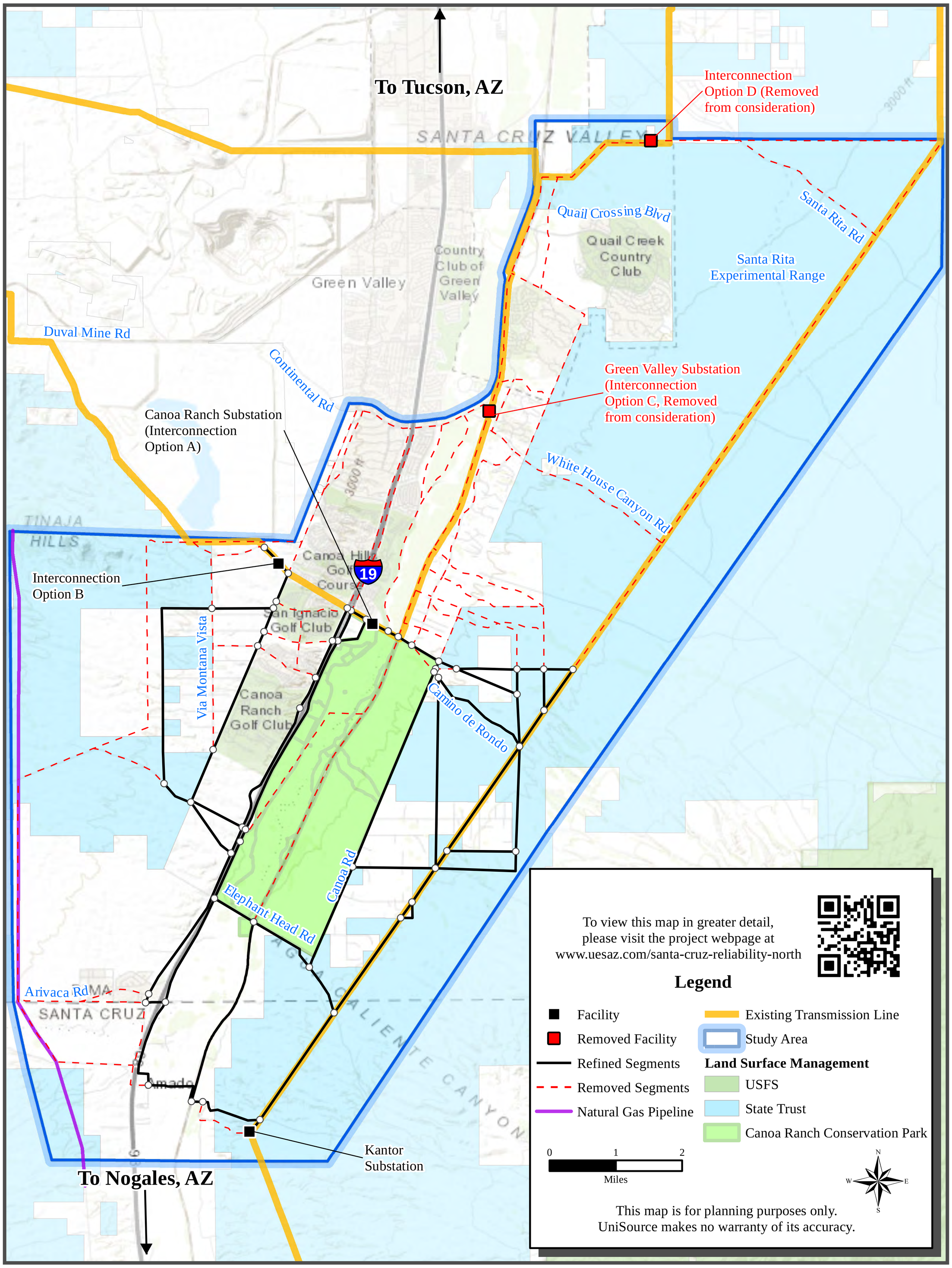
Refined Segments



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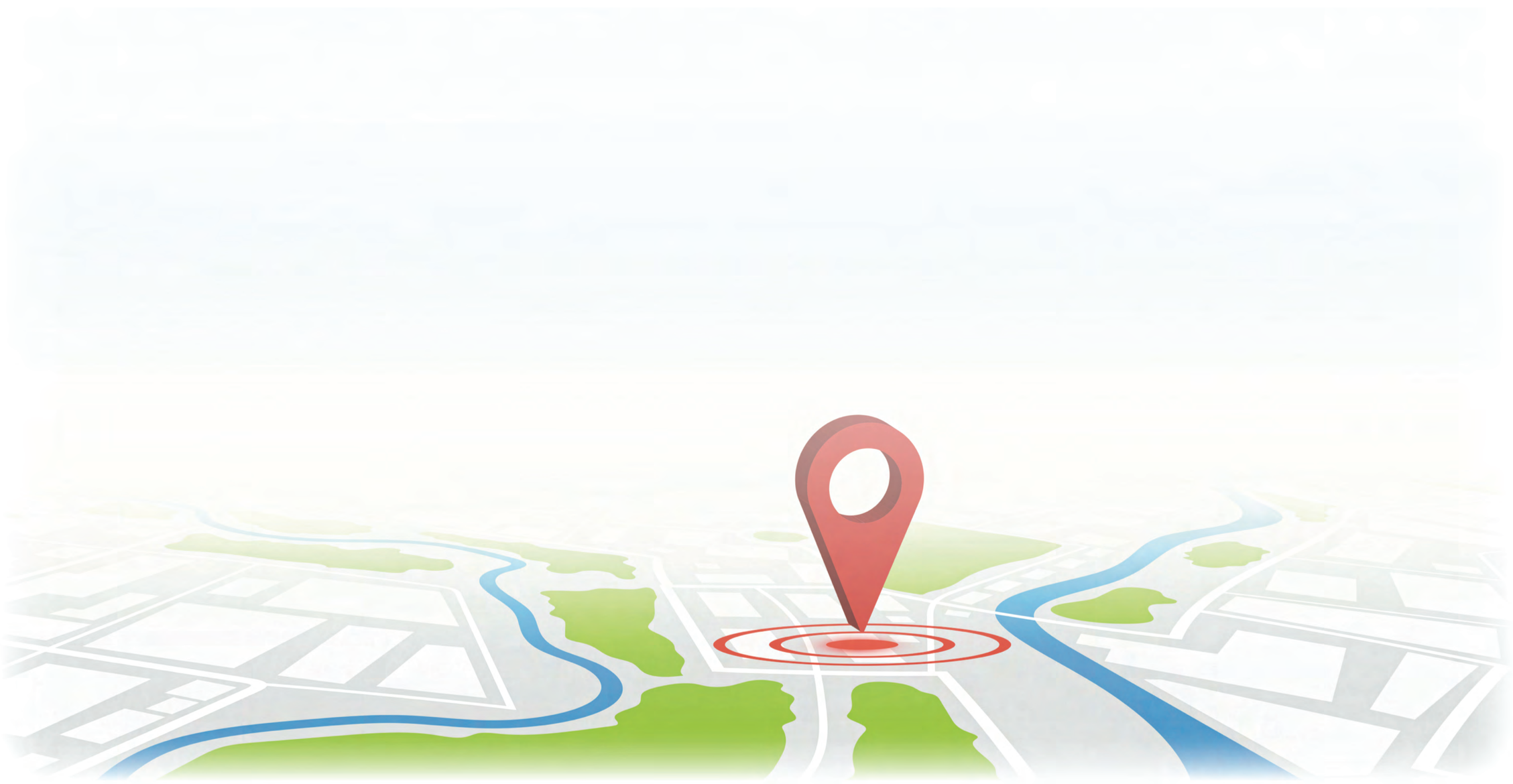
Interactive Map Station

Provide Your Spatial Comments



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We Want To Hear From You

How to Provide Official Public Comment:

Fill out an online comment form at:
ueasz.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.

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.

More Information
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