

Santa Cruz Reliability Project North

PROJECT UPDATE PRESENTATION

CLARK BRYNER – MANAGER, SITING, OUTREACH AND ENGAGEMENT



August 2025

Agencies

Please type into the chat:

- Name
- Organization
- Title/Role

- Federal Agencies
- State Agencies
- Pima County
- Santa Cruz County
- Town of Sahuarita
- Green Valley Council
- Chambers of Commerce
- Telecommunication Companies
- Greater Nogales Santa Cruz County Port Authority
- School Districts
- Union Pacific Railroad
- Utilities
- Large private landowners

Agenda

- Santa Cruz Reliability Project – Overview
 - Need and Benefits
 - Project Components
- Update - Planning and Siting Process
- Visual Simulations
- Project Schedule and Next Steps
- Public Participation
- Q&A Session

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



THIS PROJECT

Phase 1 - SCR North

Regional Grid (TEP)

Interstate 19

UNDETERMINED ROUTE

Kantor (UNSE)

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

Phase 2 - Nogales Tap-Kantor

Nogales Tap (WAPA)

Vail (TEP)

Interstate 10

Kantor (UNSE)

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

Phase 3 - SCR South

Kantor (UNSE)

UNDETERMINED ROUTE

Gateway (UNSE)

Valencia (UNSE)

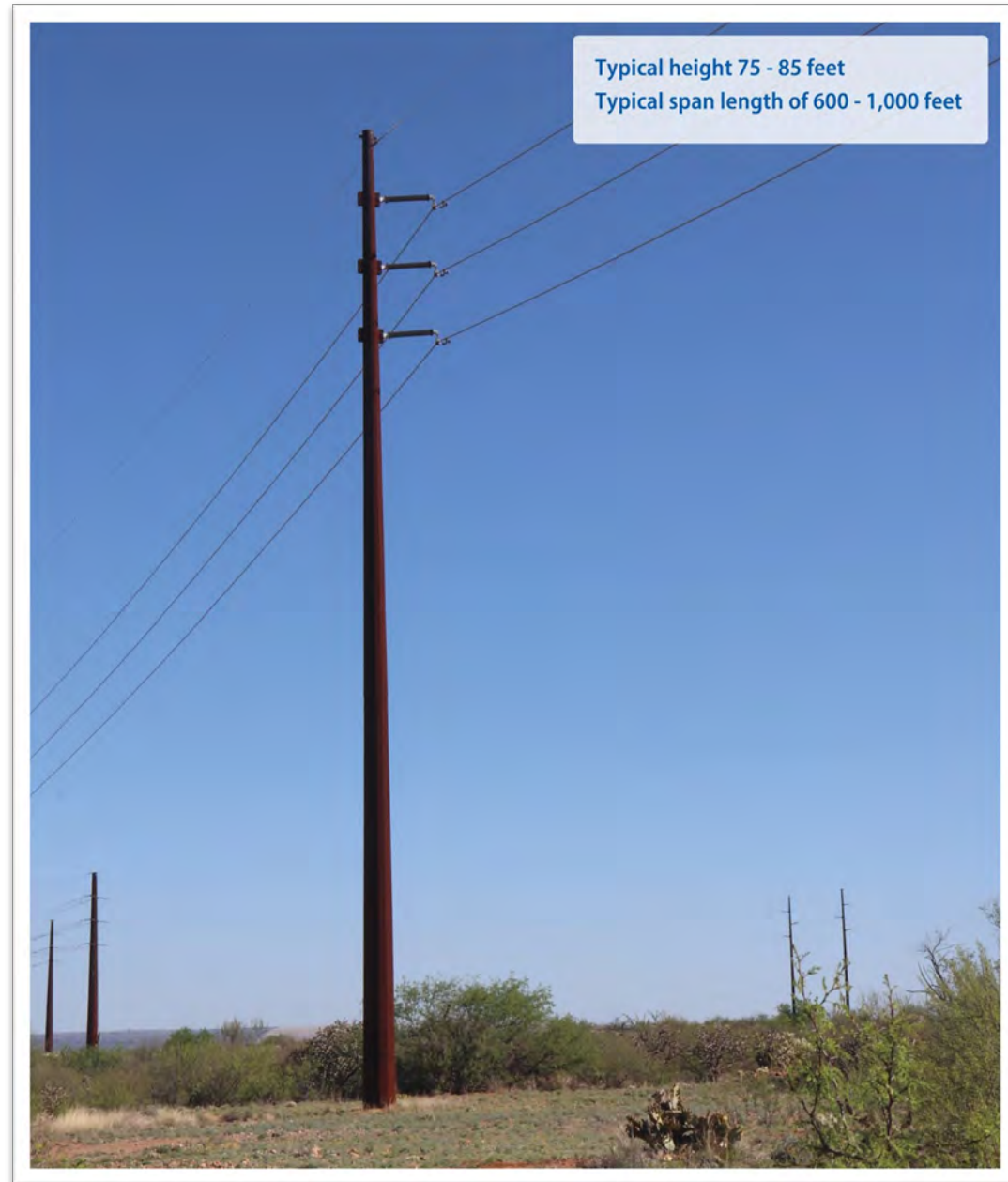
2025-2026: Planning and Siting
2029-2030: Construction

Need and Benefits

- Improve the reliability and resiliency of the electrical transmission system serving Santa Cruz County.
- Maintain and strengthen reliability for Santa Cruz County and its residents, businesses and industries, including hospitals, schools, ports of entry and federal facilities.
- Reduce and eliminate the potential for a major and sustained outage in Santa Cruz County.
- Meet current and future energy needs without impacting service to existing customers.
- 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 600 – 1,000 feet



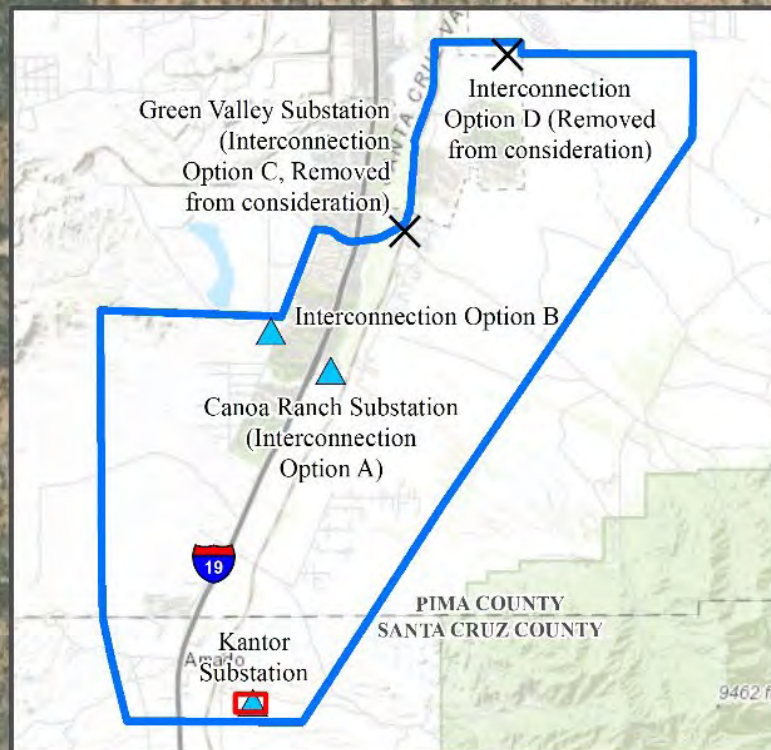
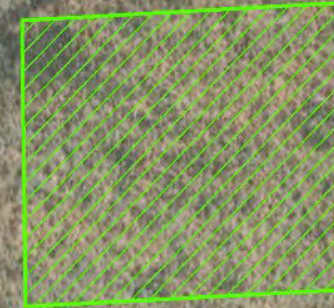
FS Road 184

KANTOR SUBSTATION EXPANSION

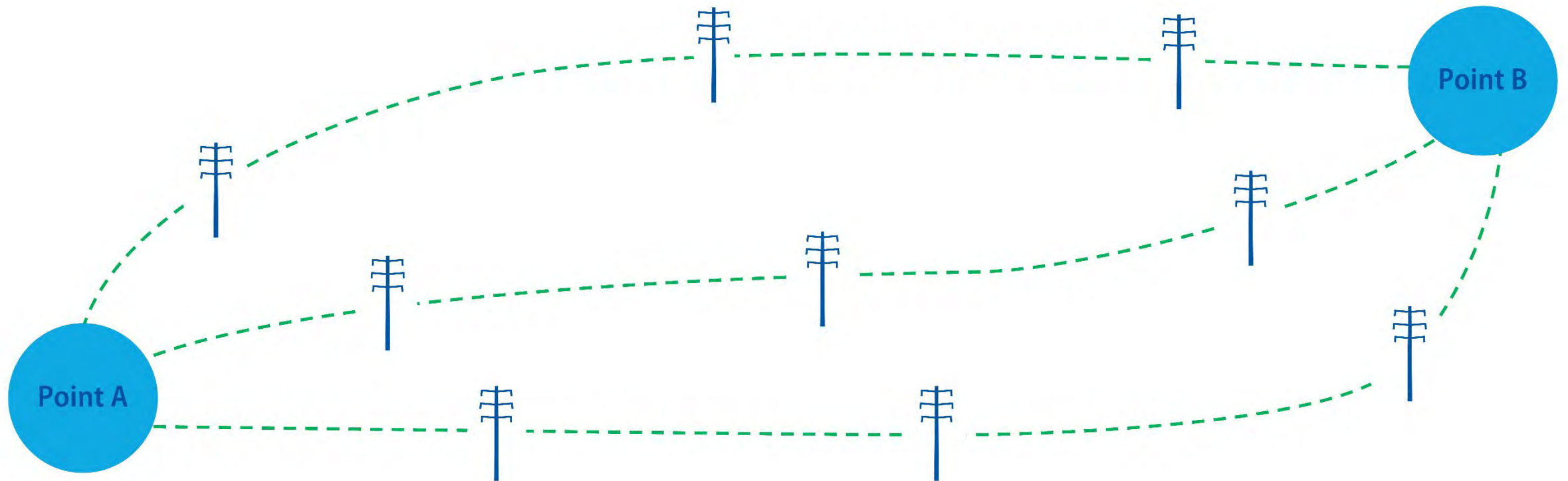
 Substation Expansion

 Project Study Area

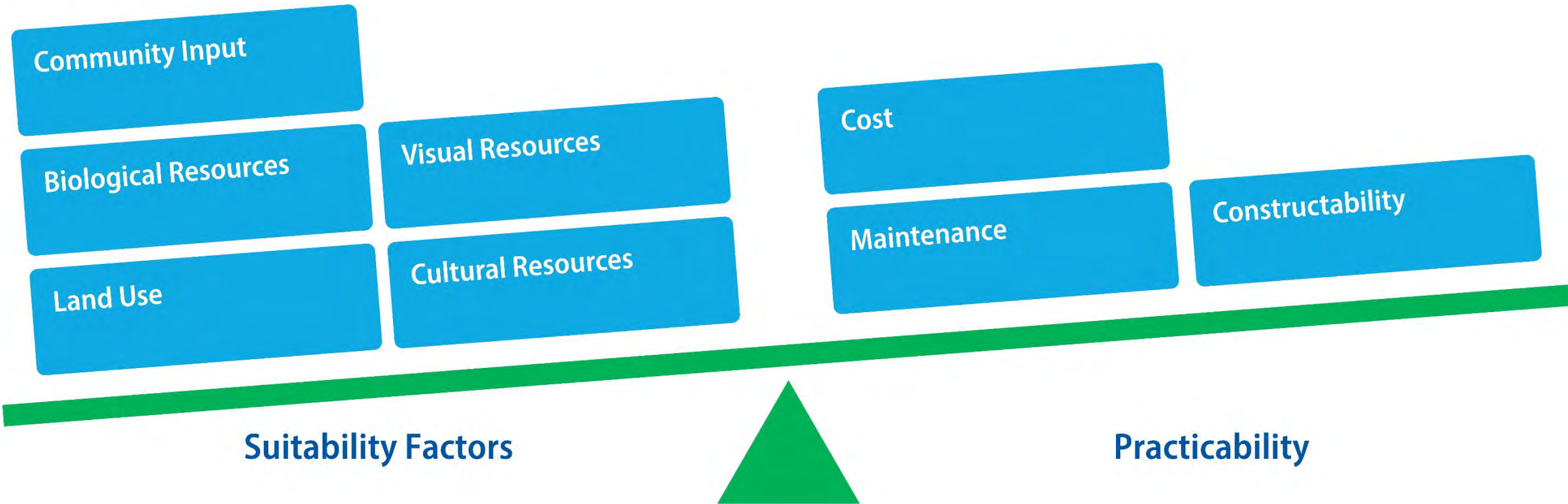
**Existing Kantor
Substation**



What is Siting?



Project Route Development and Evaluation



Planning and 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

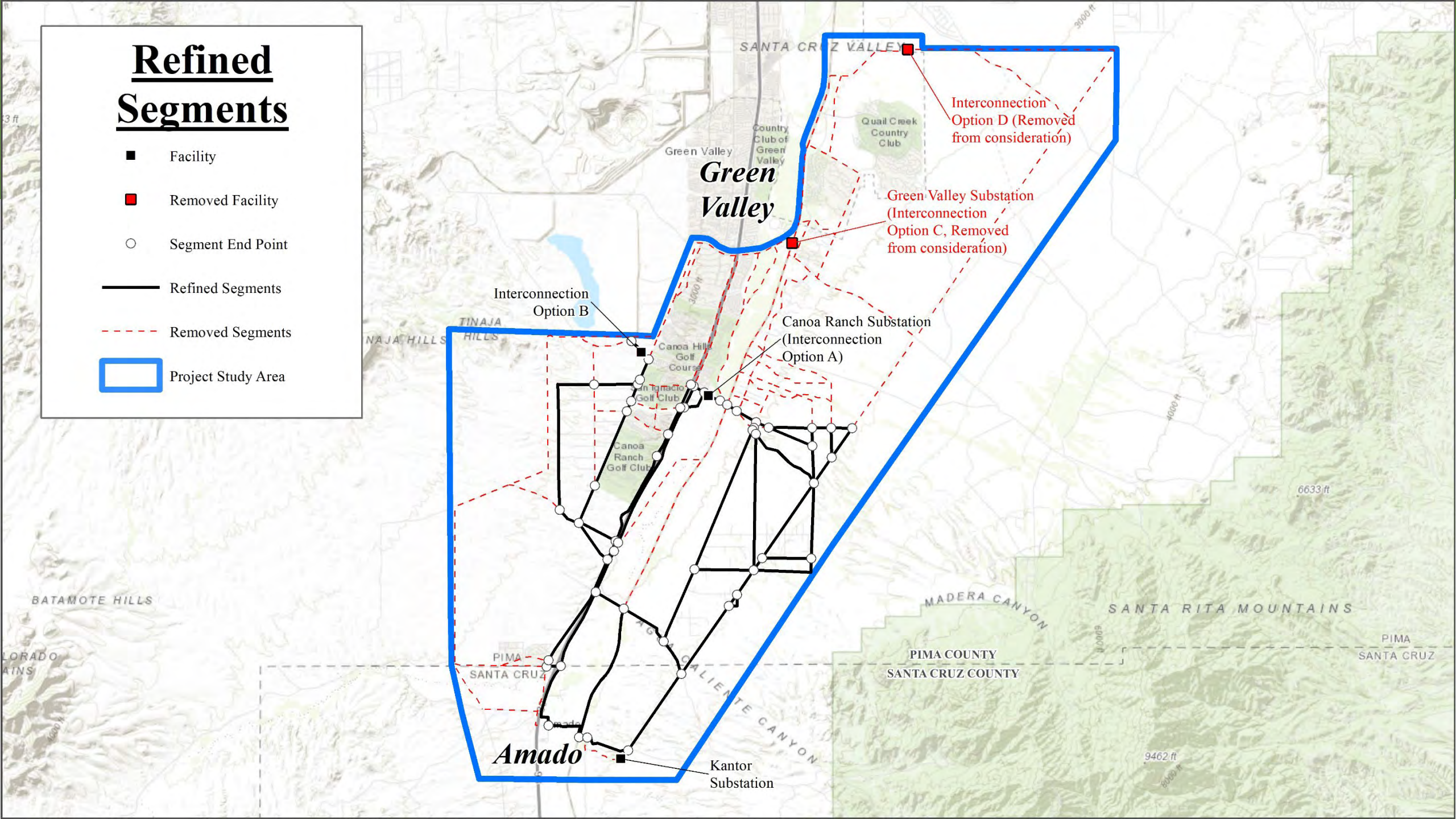
Phase 5: **Concept Evaluation**

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



Refined Segments

- Facility
- Removed Facility
- Segment End Point
- Refined Segments
- - - Removed Segments
- ▭ Project Study Area



Evaluation Criteria



Wildlife & plant life



Scenic areas, historic sites & archaeological sites and structures



Environment



Noise emission levels & interference with communication signals



Existing and planned land uses



Engineering feasibility and challenges



Project costs & potential impacts on customer rates



Potential public recreational uses

Public Input

We Hear You!



Proximity to residential areas



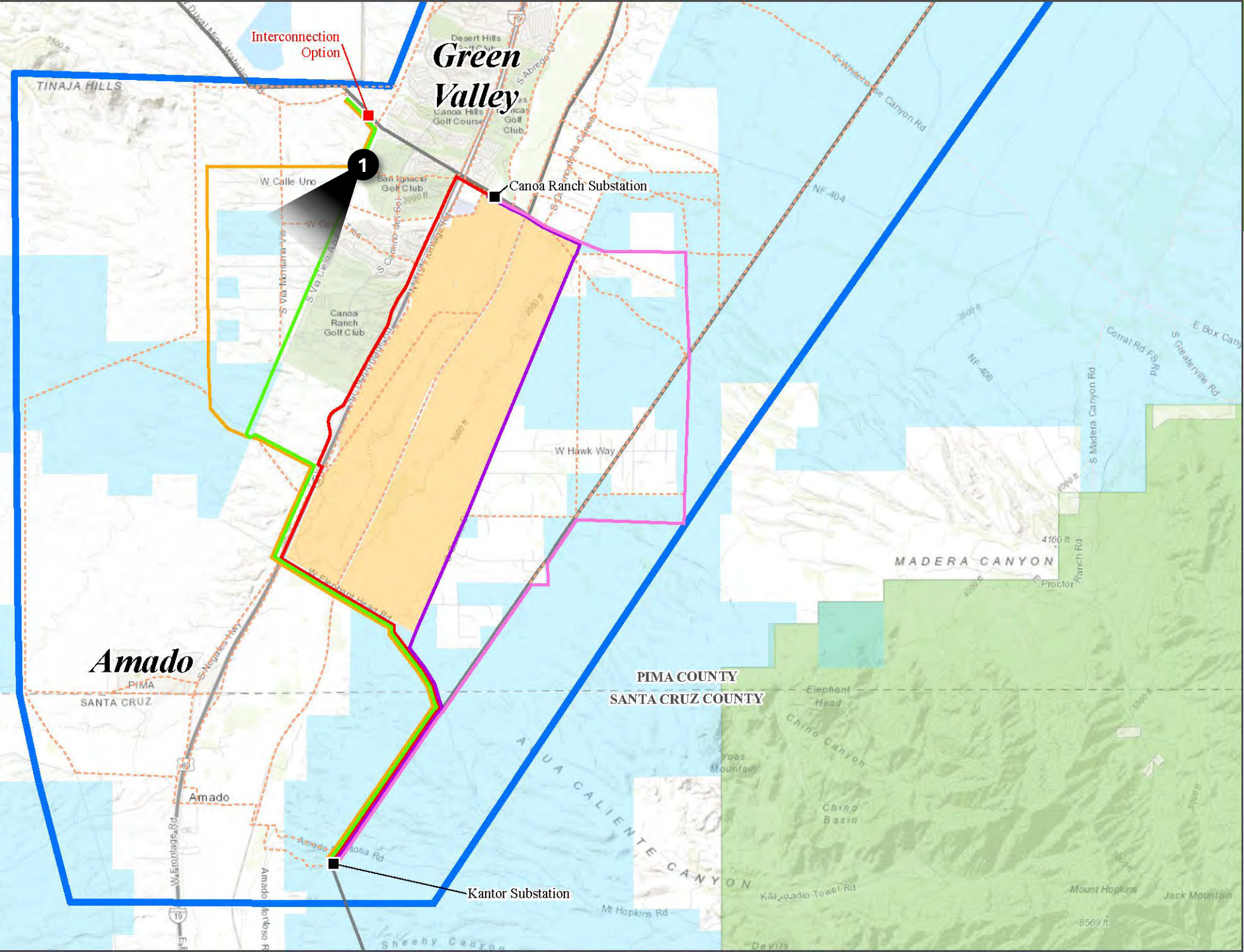
Impact on mountain views from residential areas



Public health, welfare, and safety

Route Alternatives

- Route 1
- Route 2
- Route 3
- Route 4
- Route 5
- Existing Substation
- Proposed Switchyard (option)
- Removed Segments
- Existing Transmission Line
- Land Surface Management**
 - US Forest Service
 - State Trust
 - Canoa Ranch Conservation Park



Visual Simulations

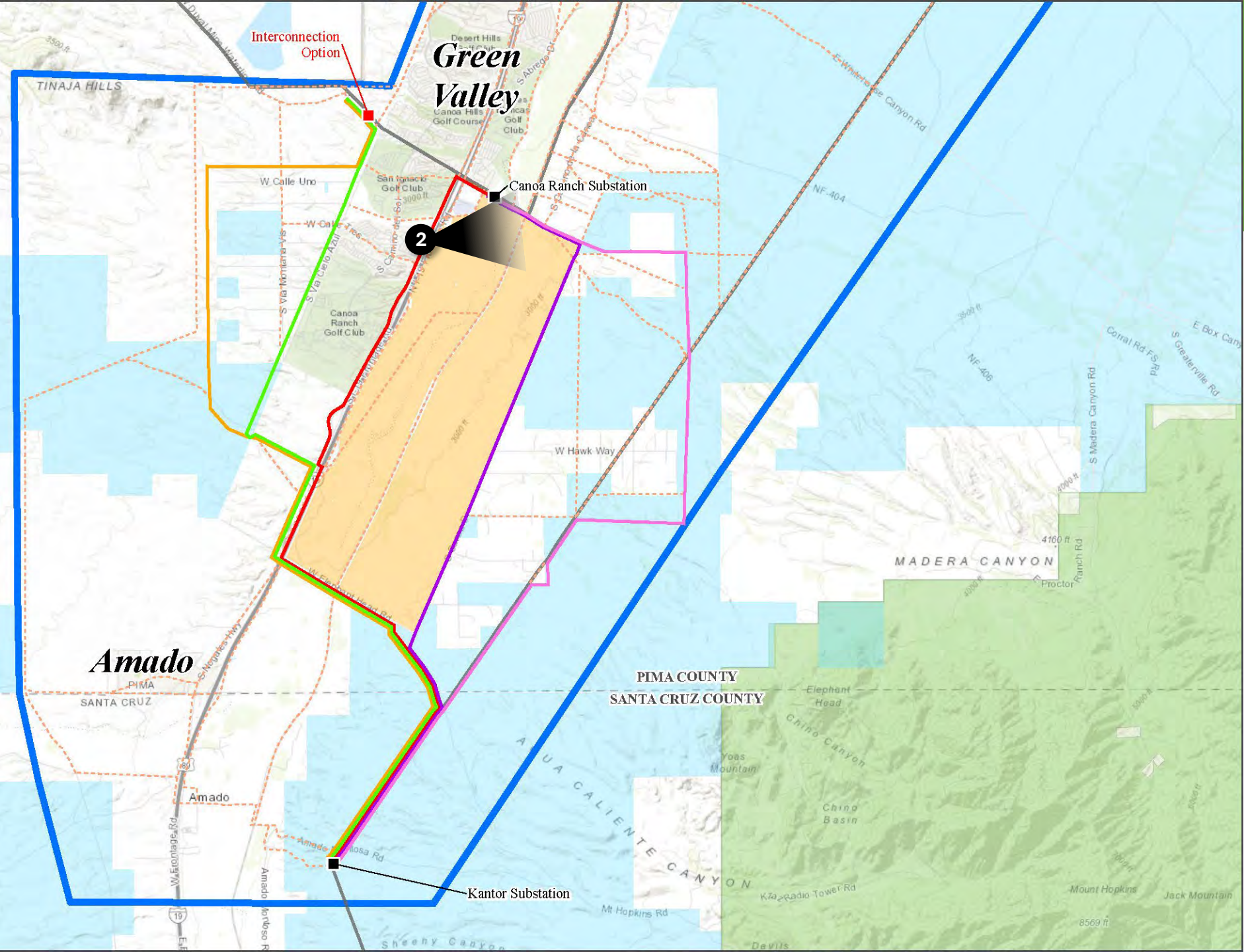
Key Observation Point 1
(San Ignacio Ridge Estates)

Via Nuevo Leon looking
southwest along Via Cielo Azul.



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Visual Simulations

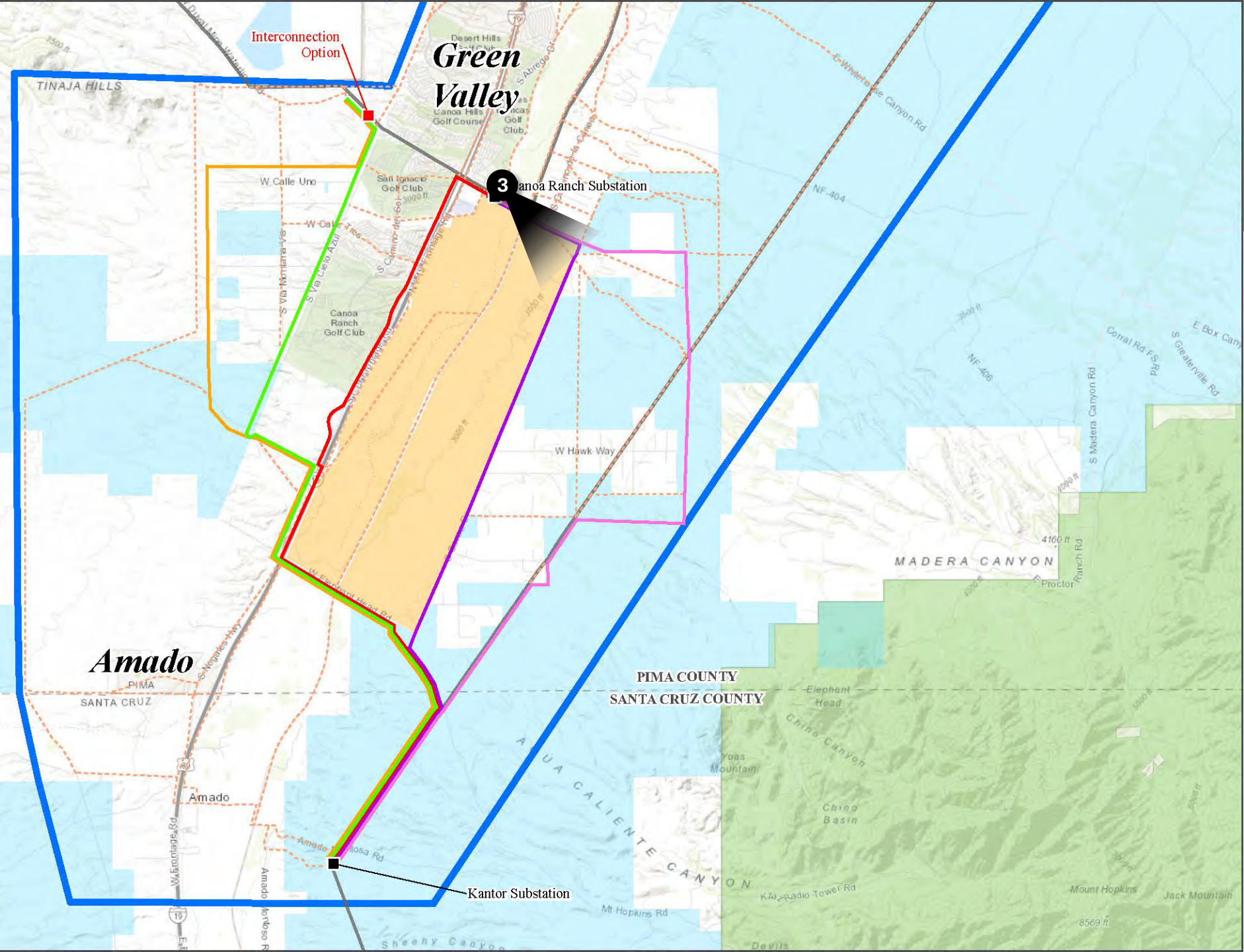
Key Observation Point 2
(San Ignacio Vistas)

Gloria View Court looking east
along I-19 frontage.



Route Alternatives

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- Route 5
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Visual Simulations

Key Observation Point 3
(The Springs)

Ground Squirrel Road looking
southeast.



Project Schedule and Next Steps*

Under Arizona law, certain transmission line configurations require a Certificate of Environmental Compatibility (CEC) before construction and operation along an approved route.

- September 2025 – CEC Application Submittal
- November 2025 – Arizona Power Plant and Transmission Line Siting Committee Hearing
- Q1 2026 – Arizona Corporation Commission (ACC) Open Meeting
- 2028 – Phase 1: Project in Service
- 2029 – Phase 2: Project in Service
- 2030 – Phase 3: Project in Service

Public Participation

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

Public Open House Opportunities

Tuesday, August 5, 2025. 9-11 a.m.
Hosted by the Green Valley Council
Green Valley Recreation East Center
7 S Abrego Drive
Green Valley, AZ 85614

Tuesday, August 5, 2025. 5-7 p.m.
Sopori Elementary School
5000 W. Arivaca Rd.
Amado, AZ 85645

Virtual Presentation Option

Thursday, August 7, 2025. 4:30-5:30 p.m.
Hosted via Microsoft Teams
Meeting ID/Login: 238 531 081 327
Passcode: kPc45
Call-in Option: (712) 274-3750; ID: 73476288

Q&A Session



Please use the raise hand feature in MS Teams

or

Type your question into the chat