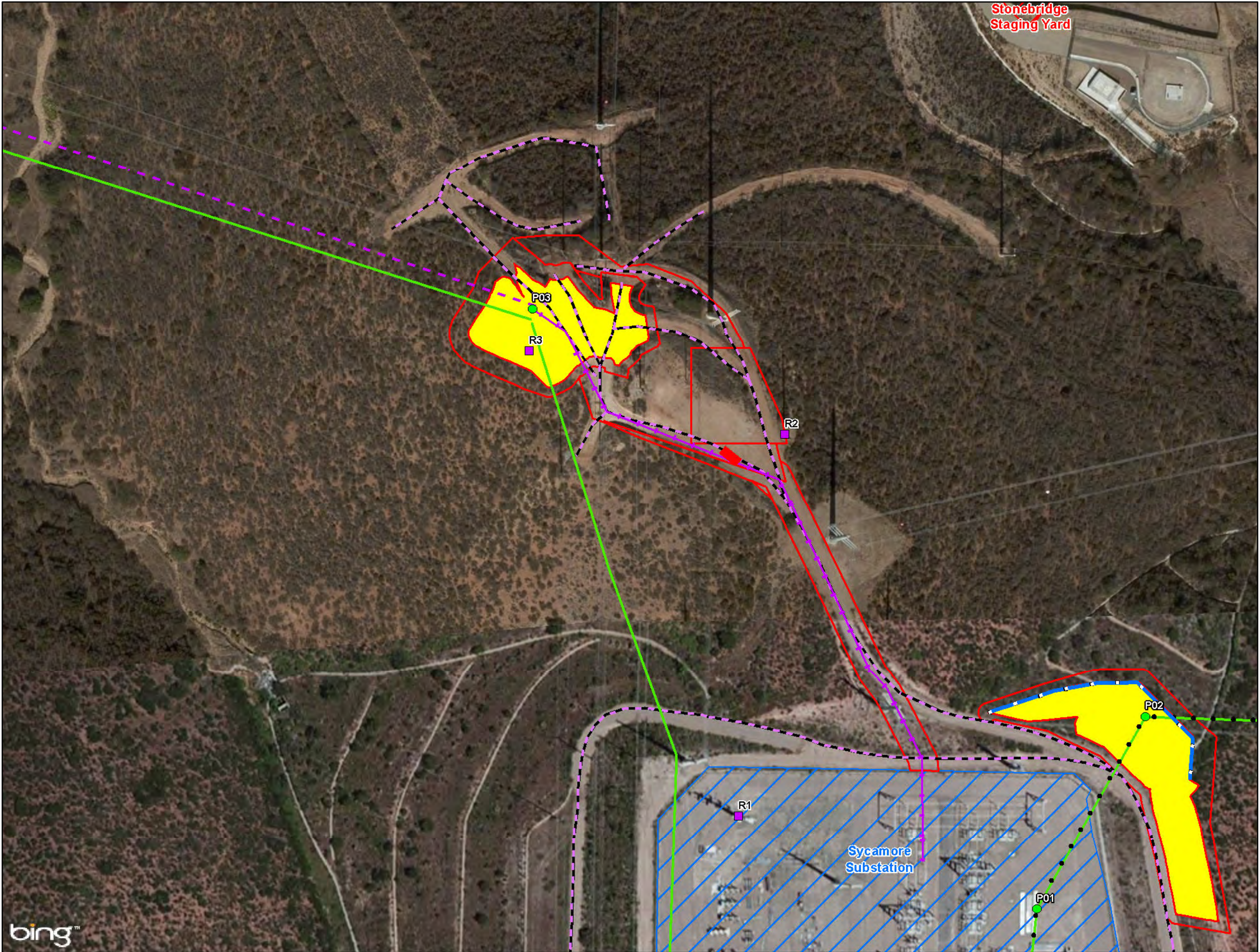


APPENDIX A

Project Alignment, Segments, and Staging Area Maps



**Sycamore to Peñasquitos
230kV Transmission
Line Project**
Final Design Route Map
Sheet 2 of 70

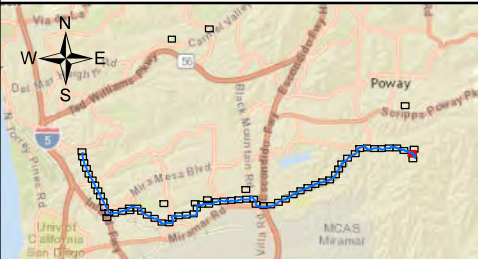
Final Design

- Existing Structure
- Proposed Structure
- Proposed New ADSS Intersect Structure
- Removed Pole
- AC Mitigation Location
- Entrance Point
- New 230kV Overhead
- New 230kV Underground
- Reconductor 230kV Overhead
- Relocated 230kV Overhead
- Reconductor 138kV Overhead
- Reconductor 138kV Underground
- Access Road
- Retaining Wall
- Temporary Work Space (e.g. structure installation and removal, stringing sites, guard structures, trenching, etc.)
- Underground Vault
- Permanent Impact
- Potential Staging Yard
- Substation

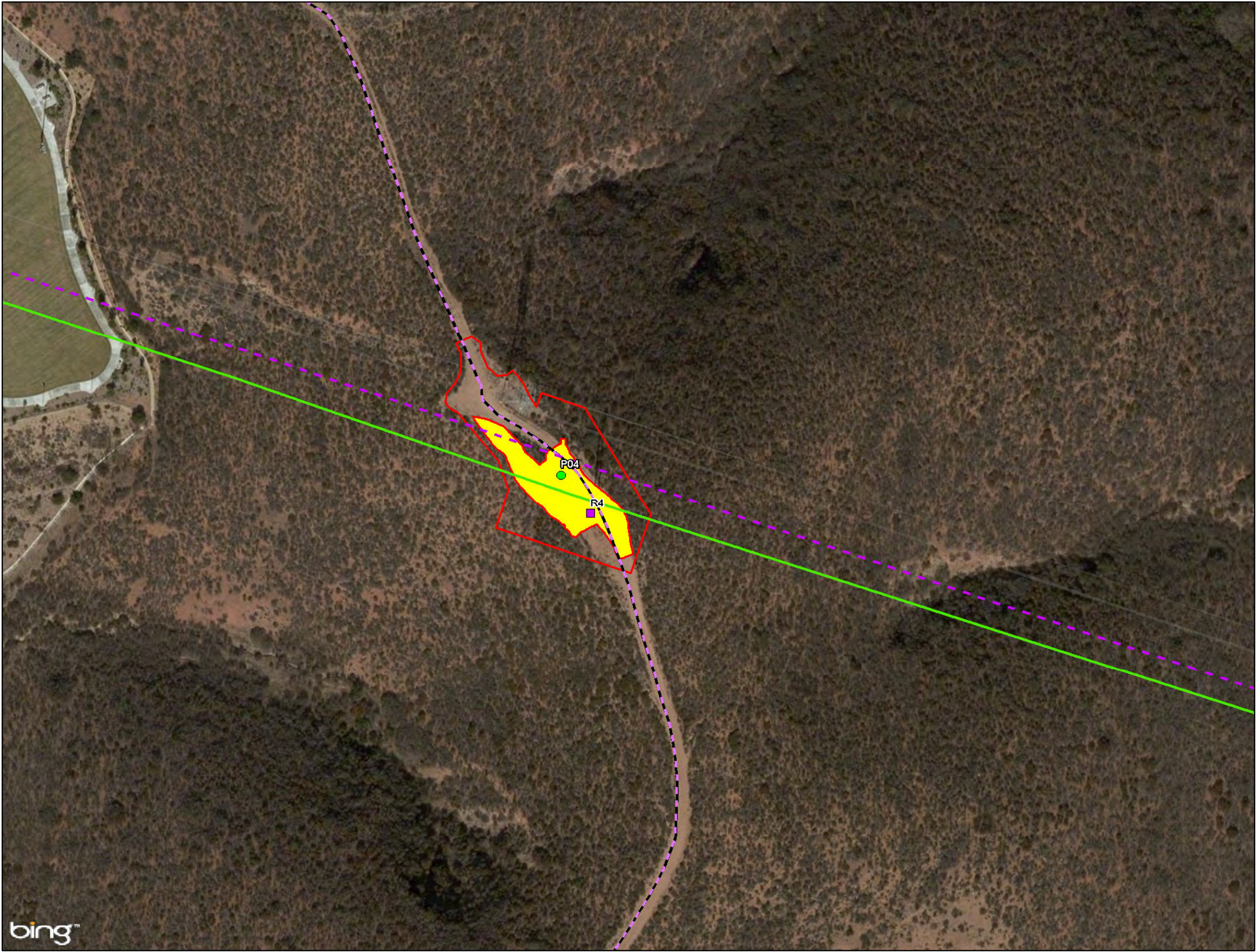
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0 50 100 150 200 Feet



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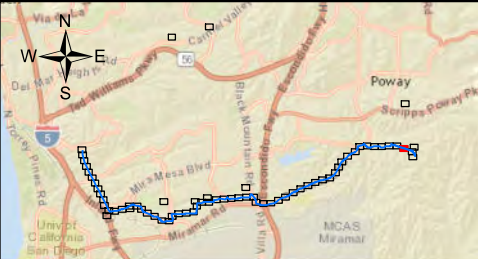
**Sycamore to Peñasquitos
230kV Transmission
Line Project**
Final Design Route Map
Sheet 3 of 70

- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
 - Access Road
 - Retaining Wall
 - Temporary Work Space (e.g. structure installation and removal, stringing sites, guard structures, trenching, etc.)
 - Underground Vault
 - Permanent Impact
 - Potential Staging Yard
 - Substation

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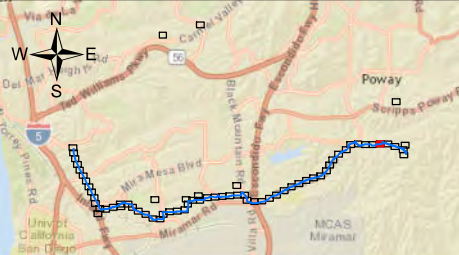
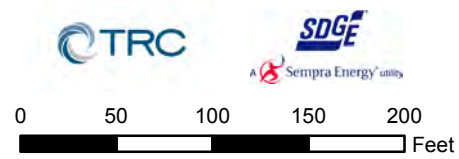
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**Sycamore to Peñasquitos
230kV Transmission
Line Project**
Final Design Route Map
Sheet 5 of 70

- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
 - Access Road
 - Retaining Wall
 - Temporary Work Space (e.g. structure installation and removal, stringing sites, guard structures, trenching, etc.)
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 - Potential Staging Yard
 - Substation

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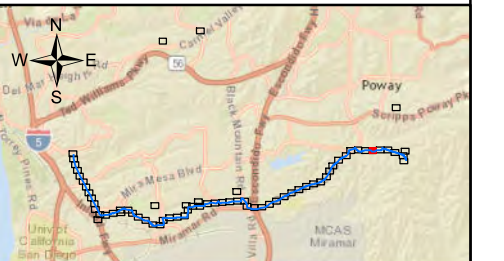
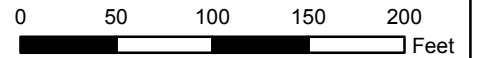


**Sycamore to Peñasquitos
230kV Transmission
Line Project**
Final Design Route Map
Sheet 6 of 70

Final Design

- Existing Structure
- Proposed Structure
- Proposed New ADSS Intersect Structure
- Removed Pole
- AC Mitigation Location
- Entrance Point
- New 230kV Overhead
- New 230kV Underground
- Reconductor 230kV Overhead
- Relocated 230kV Overhead
- Reconductor 138kV Overhead
- Reconductor 138kV Underground
- Access Road
- Retaining Wall
- Temporary Work Space (e.g. structure installation and removal, stringing sites, guard structures, trenching, etc.)
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- Permanent Impact
- Potential Staging Yard
- Substation

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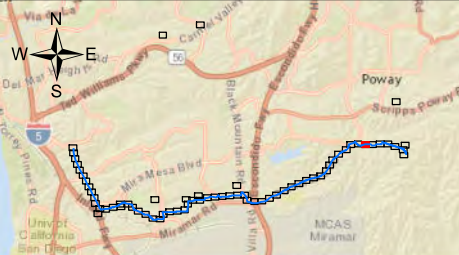
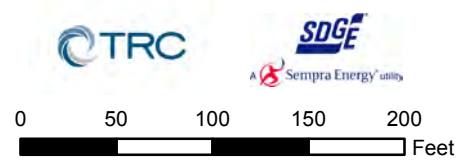
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**Sycamore to Peñasquitos
230kV Transmission
Line Project**
Final Design Route Map
Sheet 7 of 70

- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Interset Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
 - Access Road
 - Retaining Wall
 - Temporary Work Space (e.g. structure installation and removal, stringing sites, guard structures, trenching, etc.)
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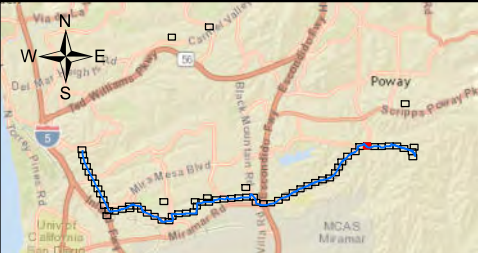
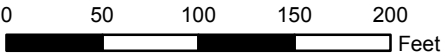
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**Sycamore to Peñasquitos
230kV Transmission
Line Project**
Final Design Route Map
Sheet 8 of 70

- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
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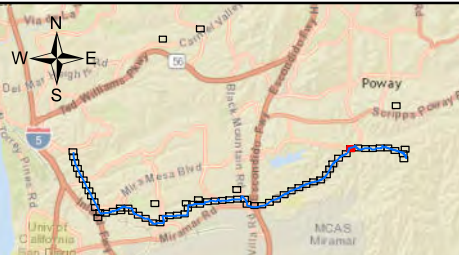
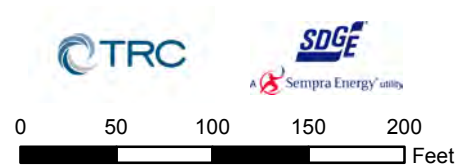
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230kV Transmission
Line Project**
Final Design Route Map
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- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
 - Access Road
 - Retaining Wall
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 - Substation

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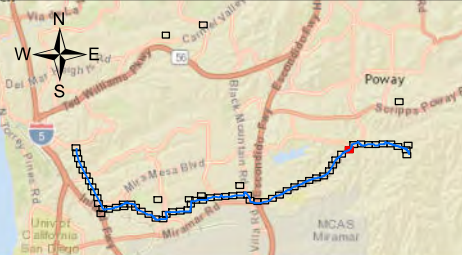
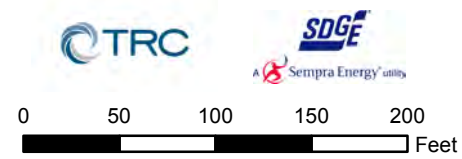
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**Sycamore to Peñasquitos
230kV Transmission
Line Project**
Final Design Route Map
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- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
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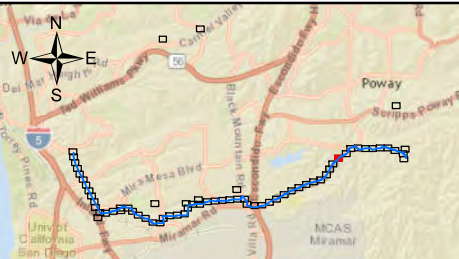
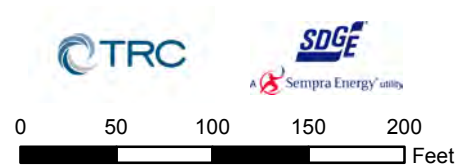
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230kV Transmission
Line Project**
Final Design Route Map
Sheet 11 of 70

- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
 - Access Road
 - Retaining Wall
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 - Substation

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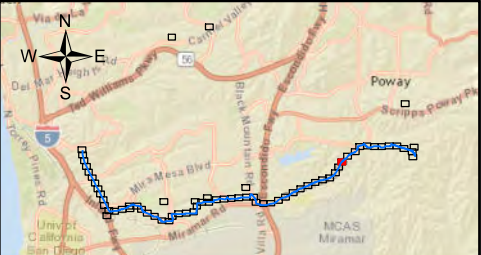
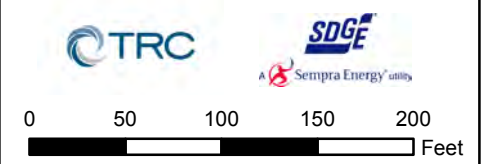
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230kV Transmission
Line Project**
Final Design Route Map
Sheet 12 of 70

- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
 - Access Road
 - Retaining Wall
 - Temporary Work Space (e.g. structure installation and removal, stringing sites, guard structures, trenching, etc.)
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 - Potential Staging Yard
 - Substation

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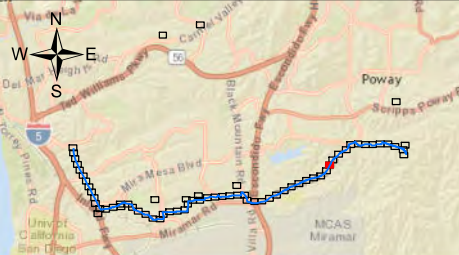
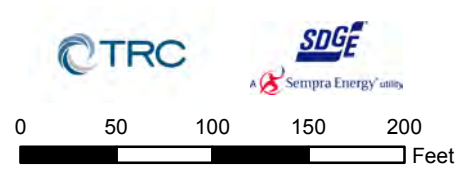
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Sycamore to Peñasquitos
230kV Transmission
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Final Design Route Map
Sheet 13 of 70

- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
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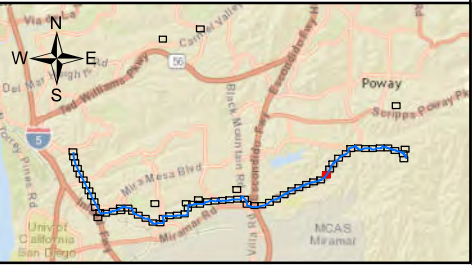
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230kV Transmission
Line Project**
Final Design Route Map
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- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
 - Access Road
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 - Temporary Work Space (e.g. structure installation and removal, stringing sites, guard structures, trenching, etc.)
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 - Potential Staging Yard
 - Substation

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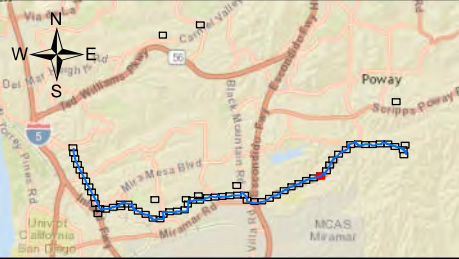
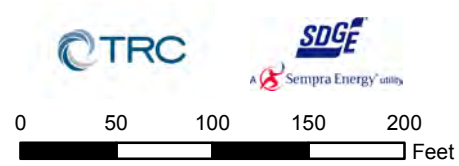
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230kV Transmission
Line Project**
Final Design Route Map
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- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
 - Access Road
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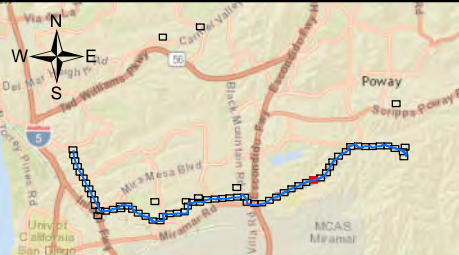
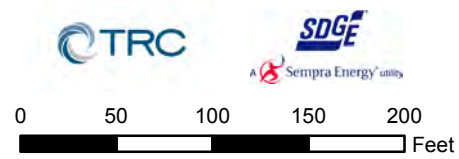
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Sycamore to Peñasquitos
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Final Design Route Map
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- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
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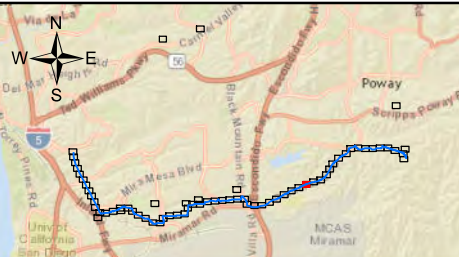
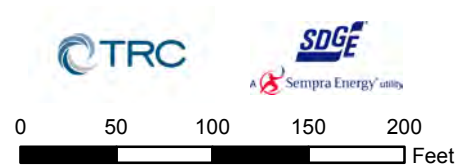
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230kV Transmission
Line Project**
Final Design Route Map
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- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
 - Access Road
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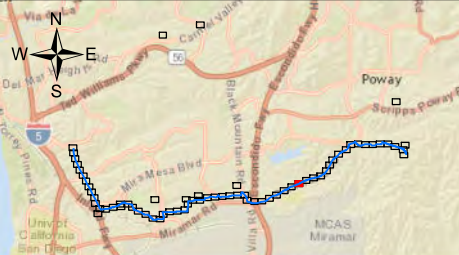
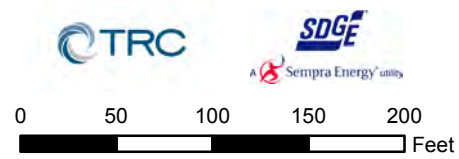
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Sheet 18 of 70

- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
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 - Substation

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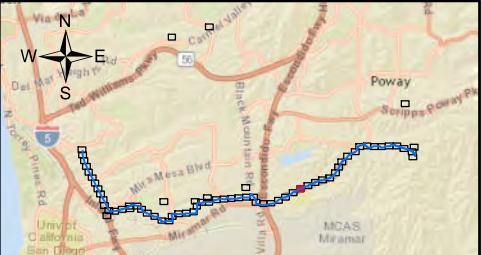
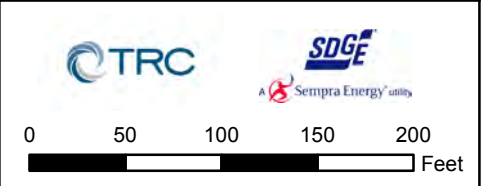
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 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
 - Access Road
 - Retaining Wall
 - Temporary Work Space (e.g. structure installation and removal, stringing sites, guard structures, trenching, etc.)
 - Underground Vault
 - Permanent Impact
 - Potential Staging Yard
 - Substation

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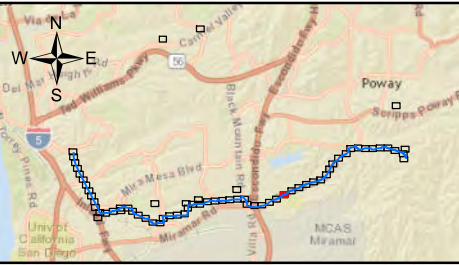
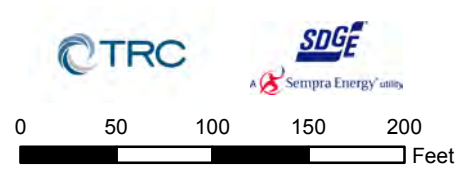
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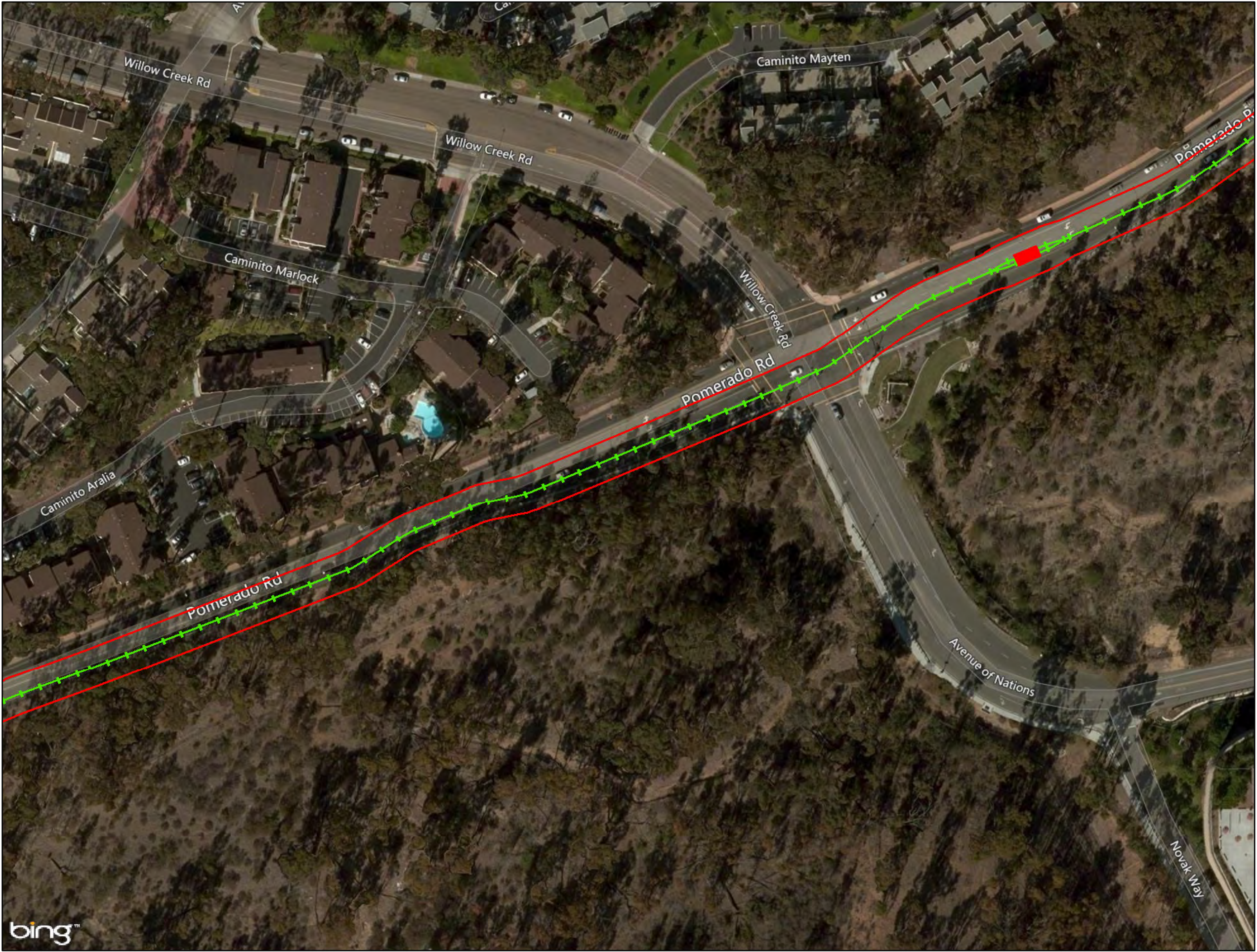
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 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
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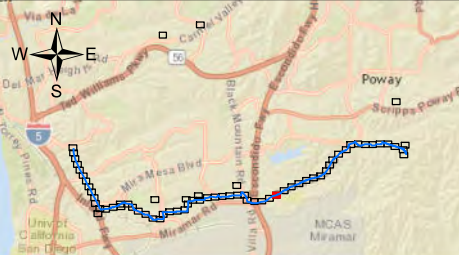
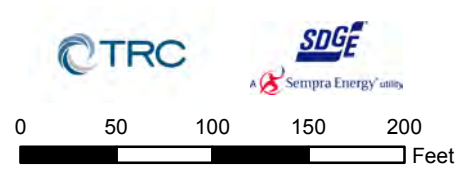
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 - Reconductor 138kV Underground
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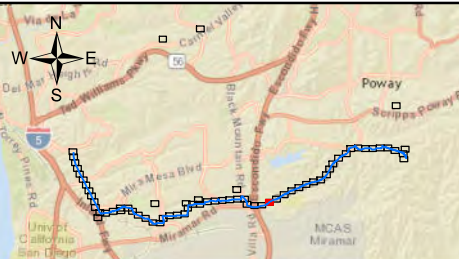
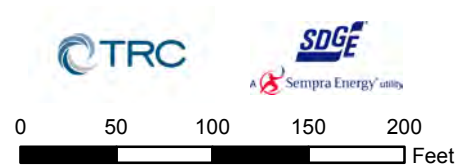
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 - Relocated 230kV Overhead
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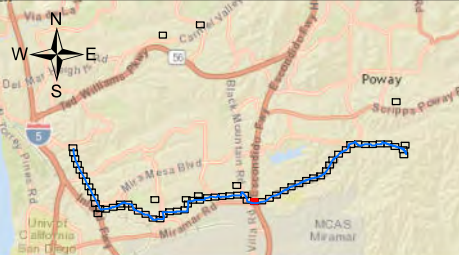
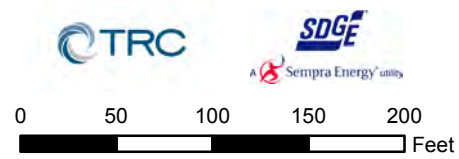
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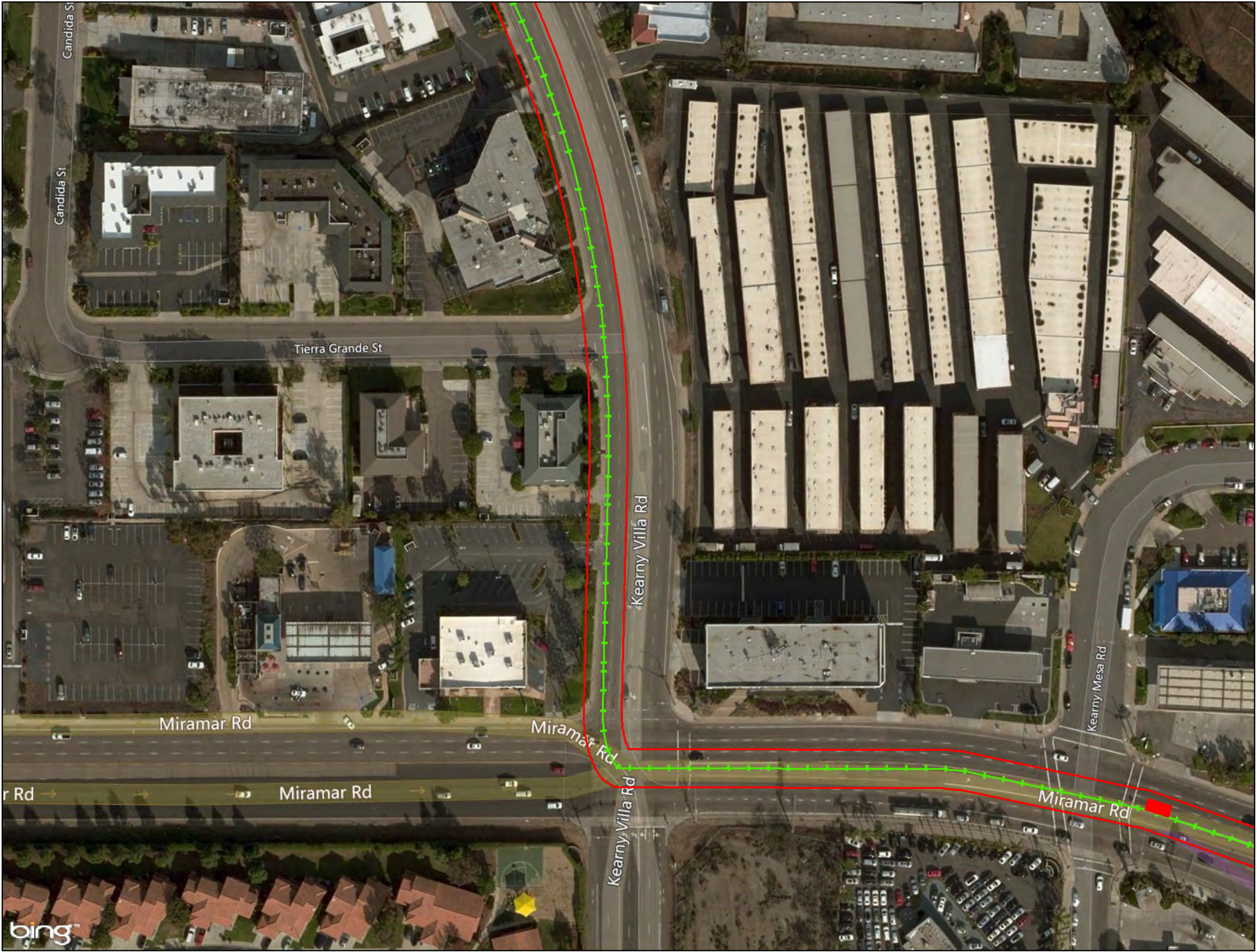
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 - Reconductor 138kV Underground
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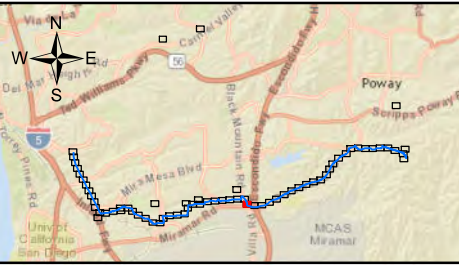
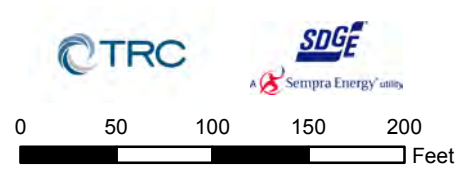
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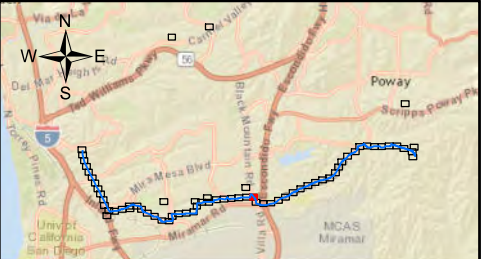
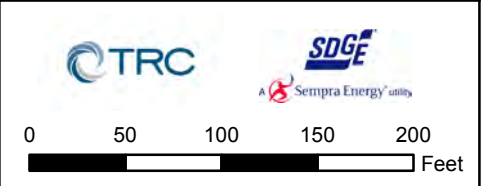
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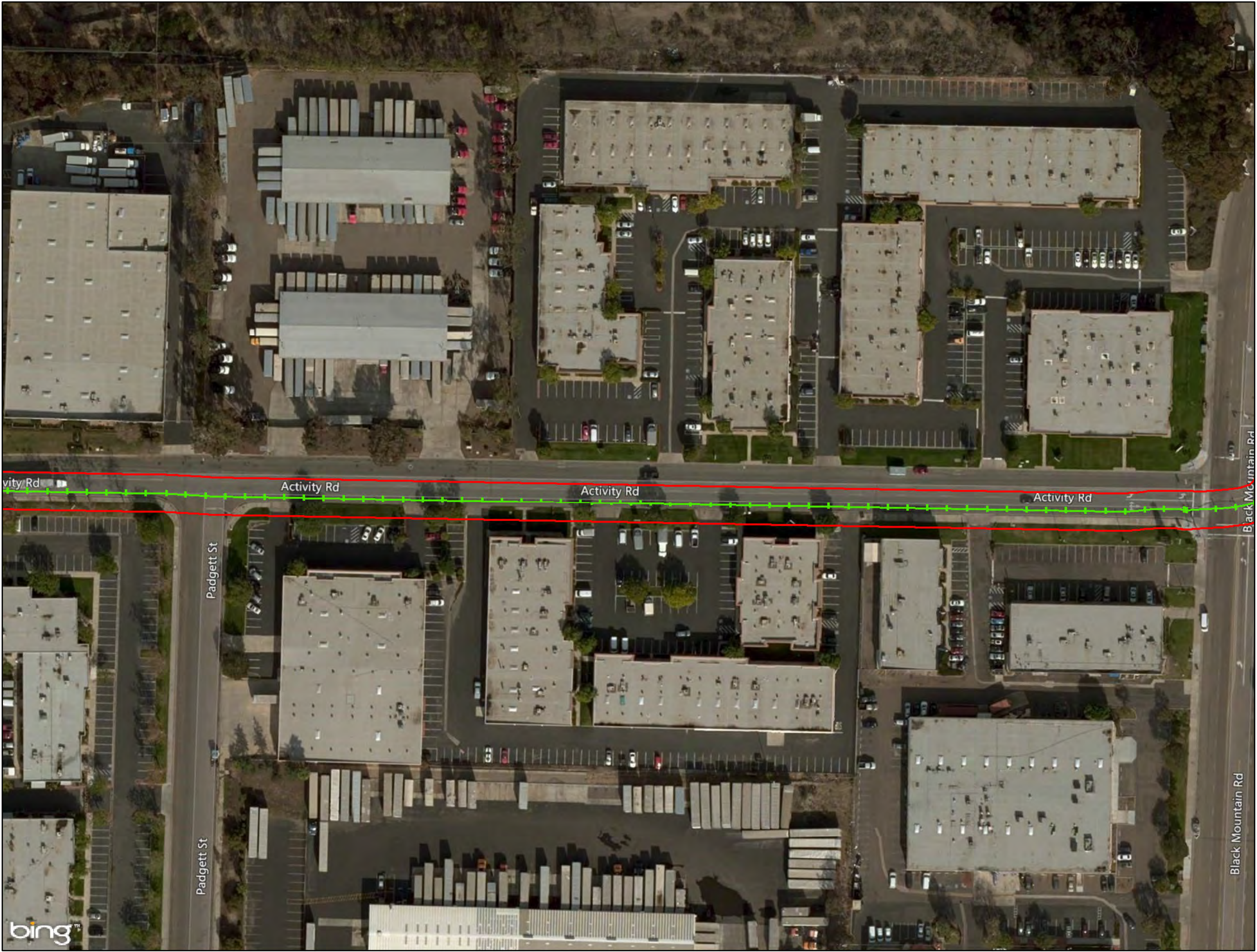
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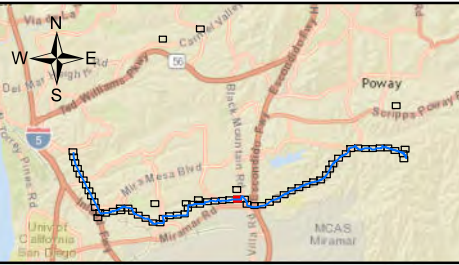
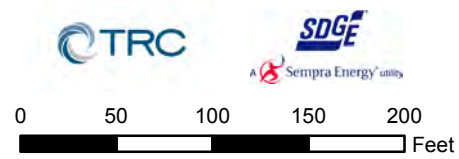
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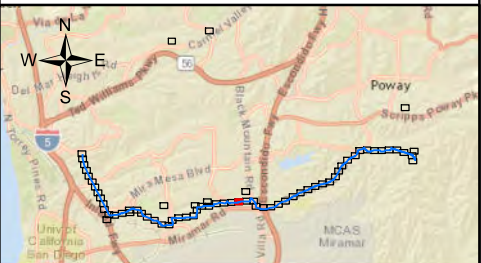
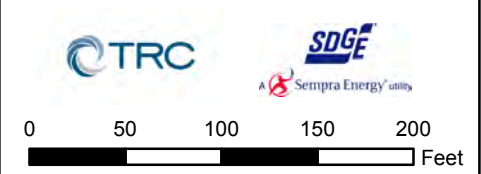
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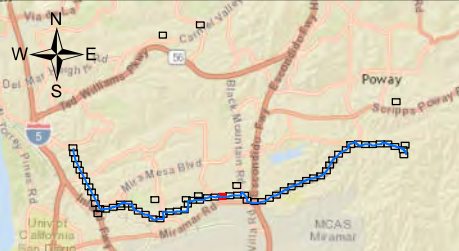
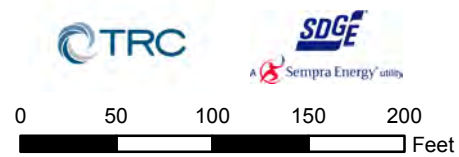
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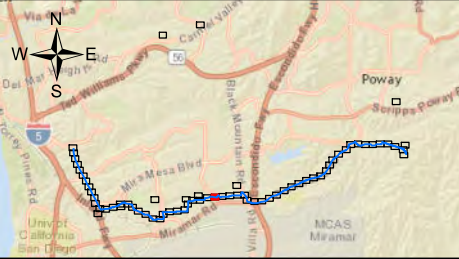
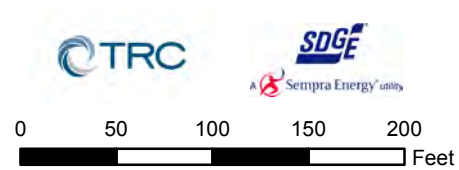
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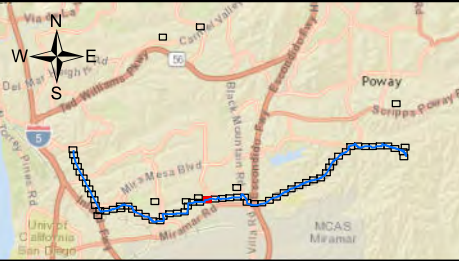
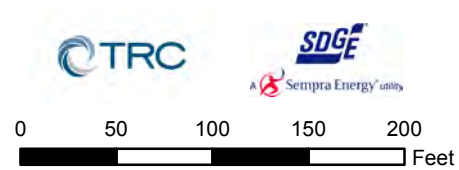
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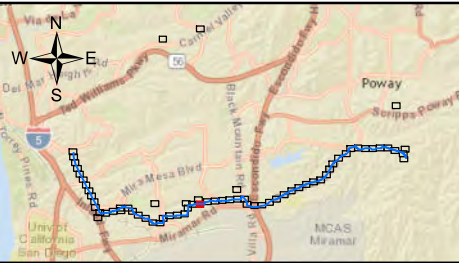
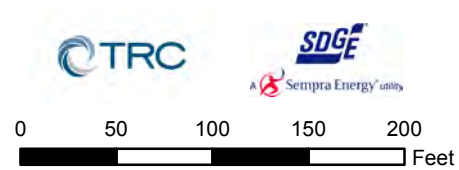
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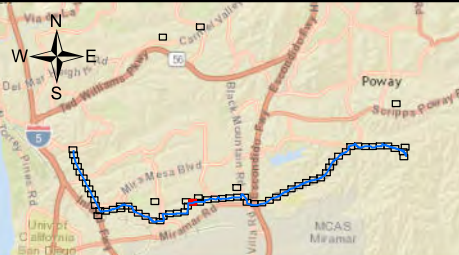
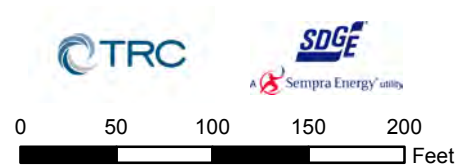
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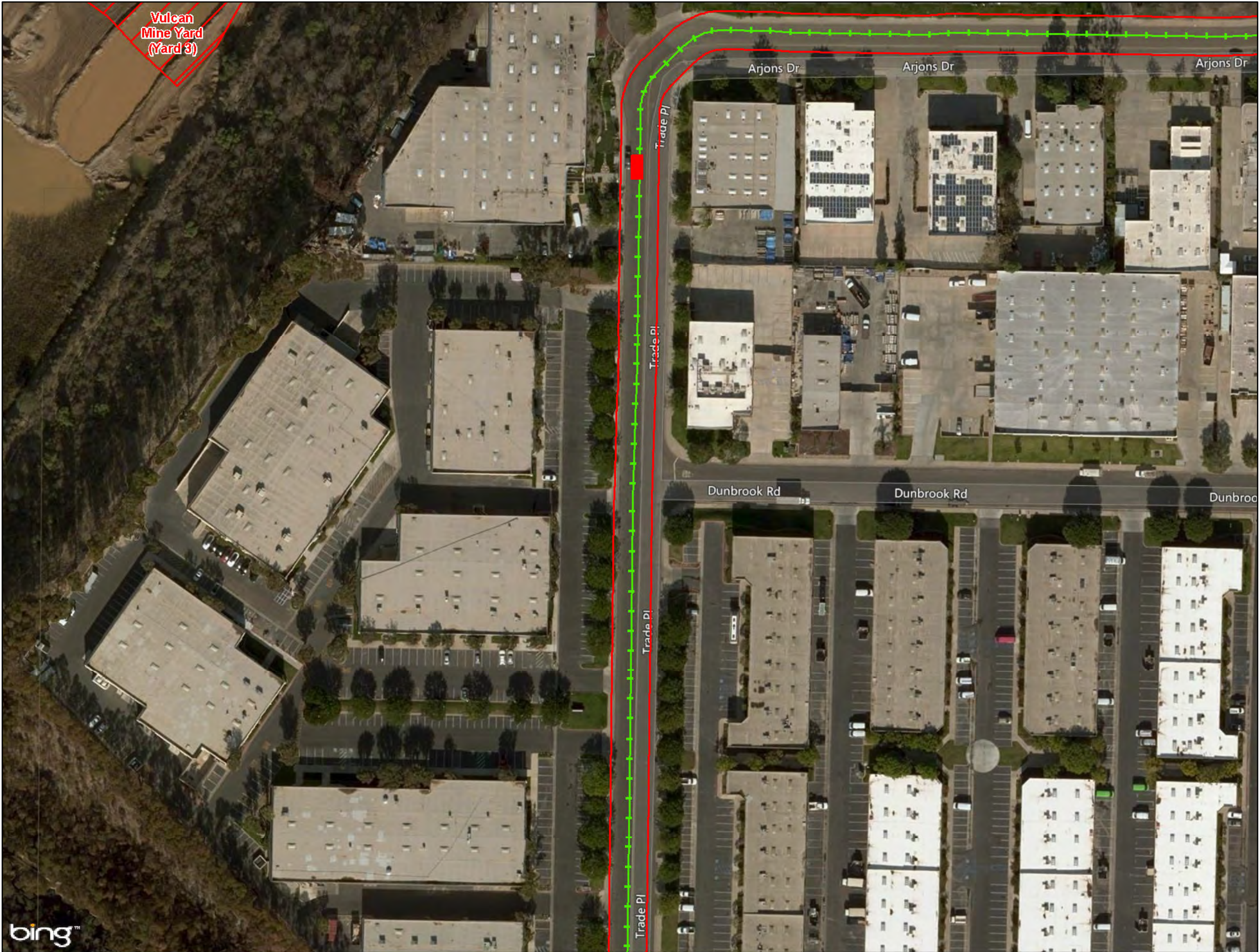
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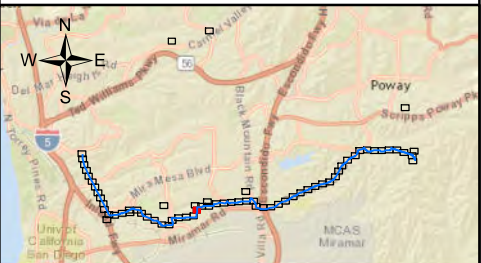
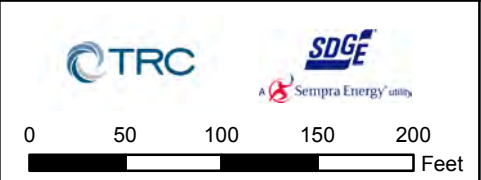
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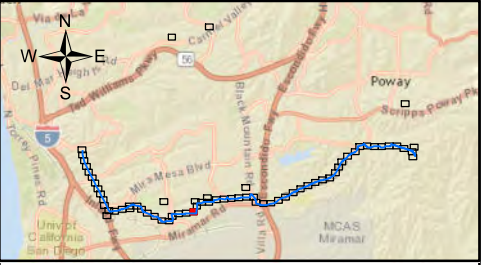
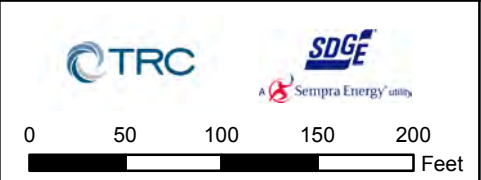
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 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
 - Access Road
 - Retaining Wall
 - Temporary Work Space (e.g. structure installation and removal, stringing sites, guard structures, trenching, etc.)
 - Underground Vault
 - Permanent Impact
 - Potential Staging Yard
 - Substation

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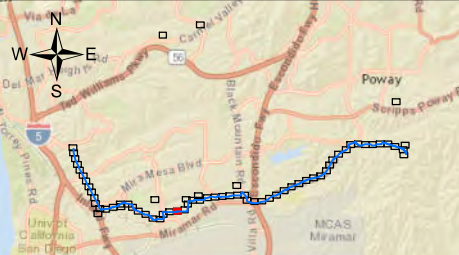
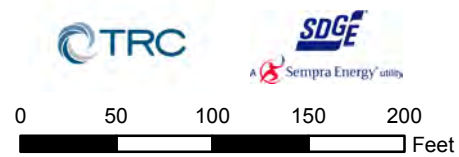
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 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
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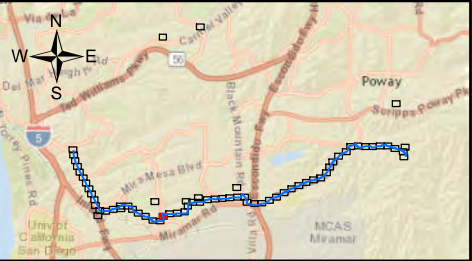
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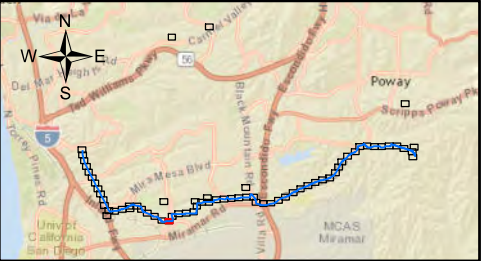
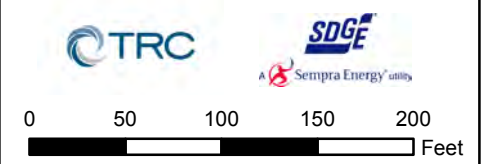
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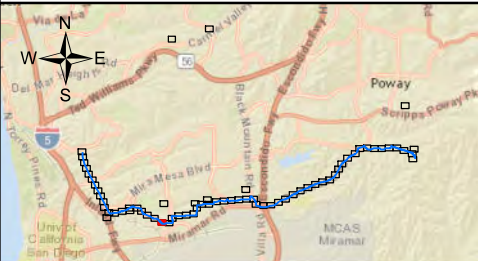
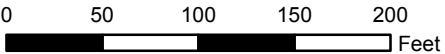
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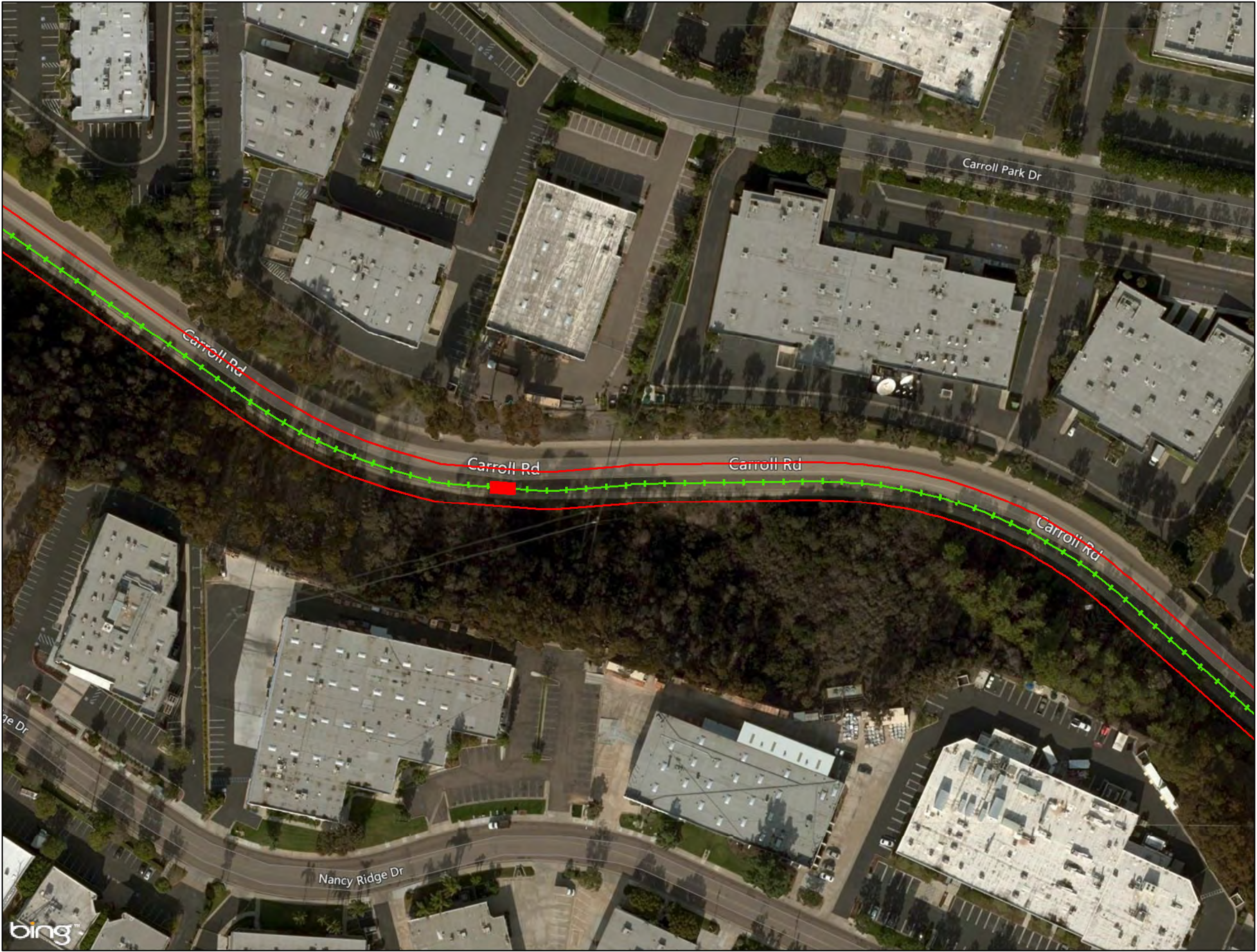
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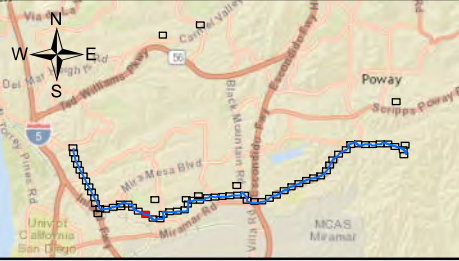
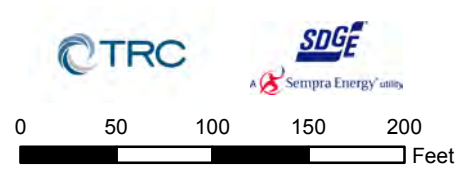
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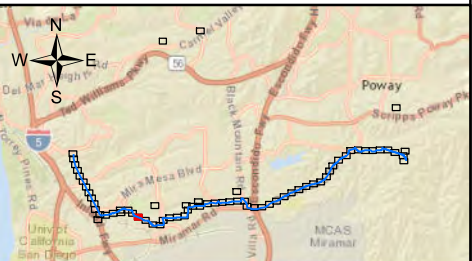
Final Design

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- New 230kV Underground
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0 50 100 150 200 Feet



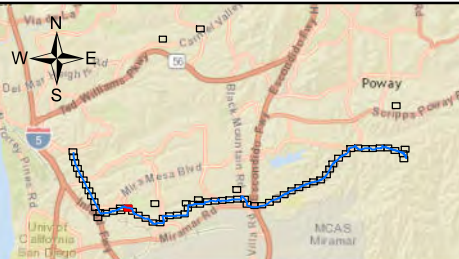
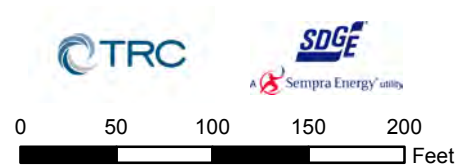
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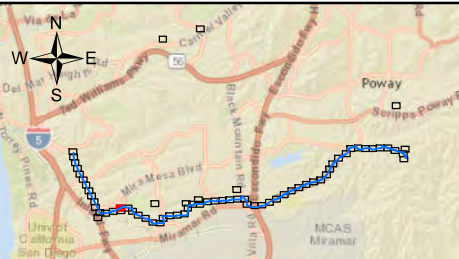
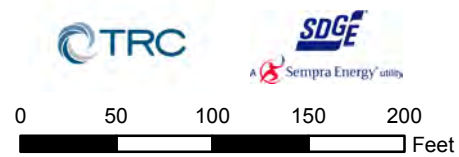
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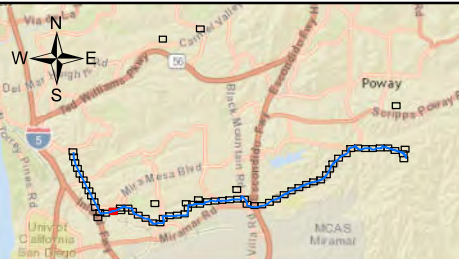
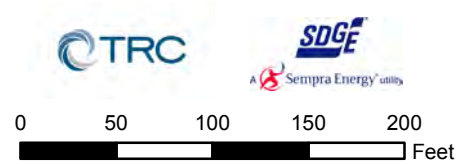
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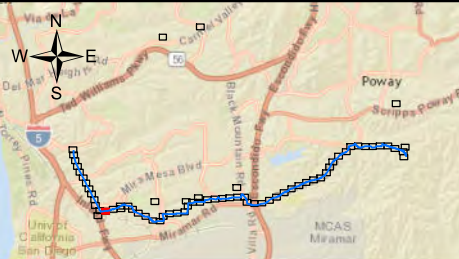
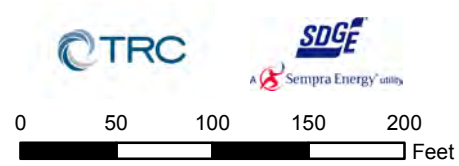
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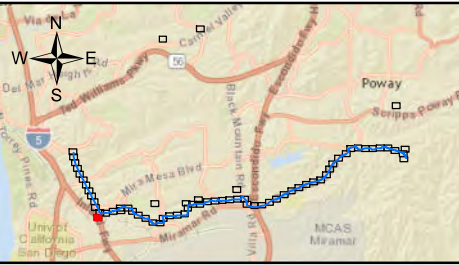
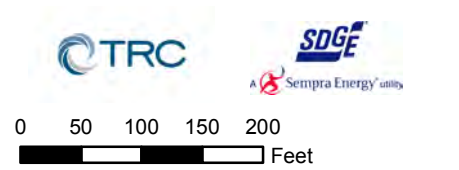
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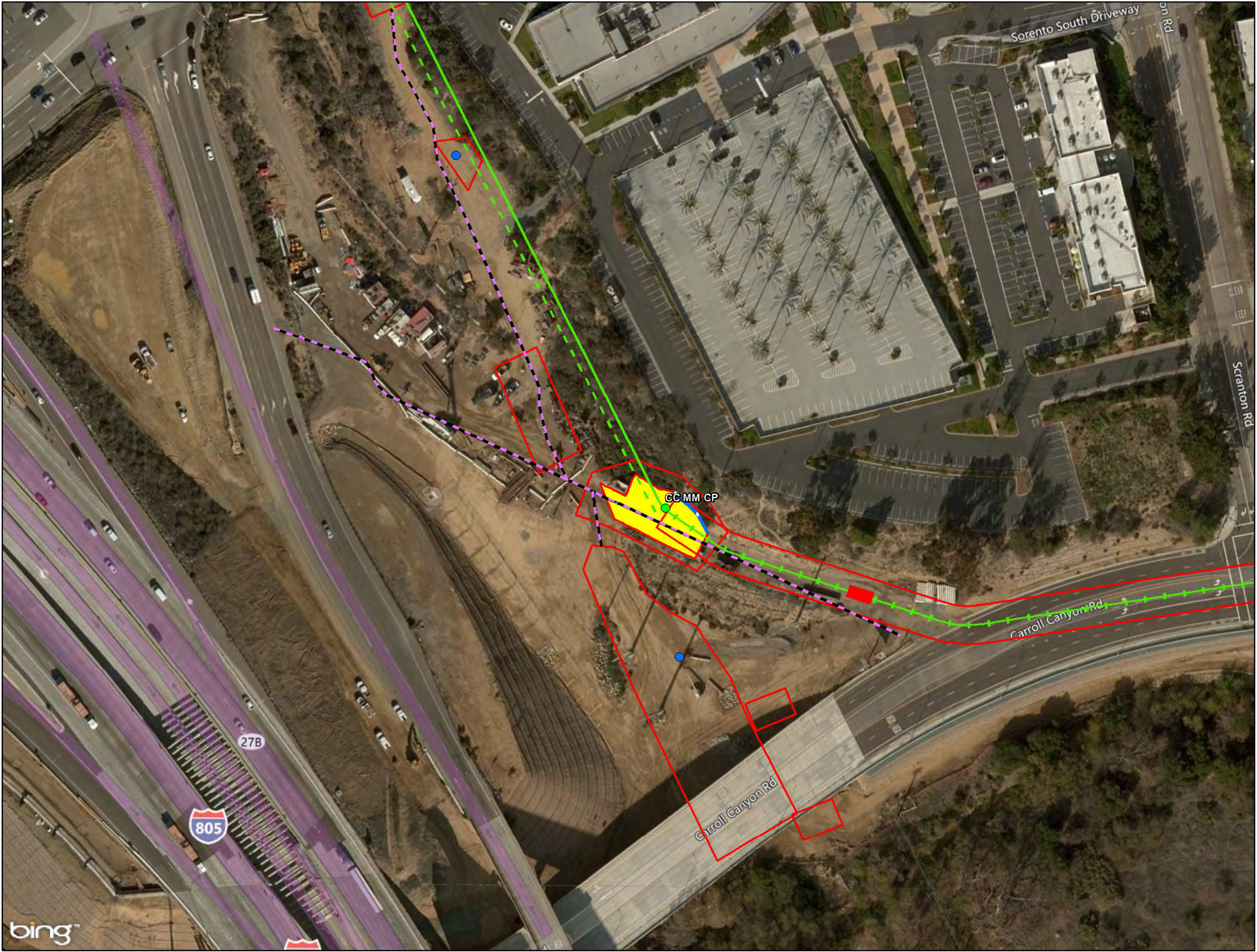
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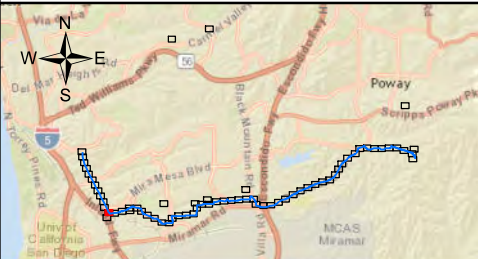
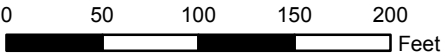
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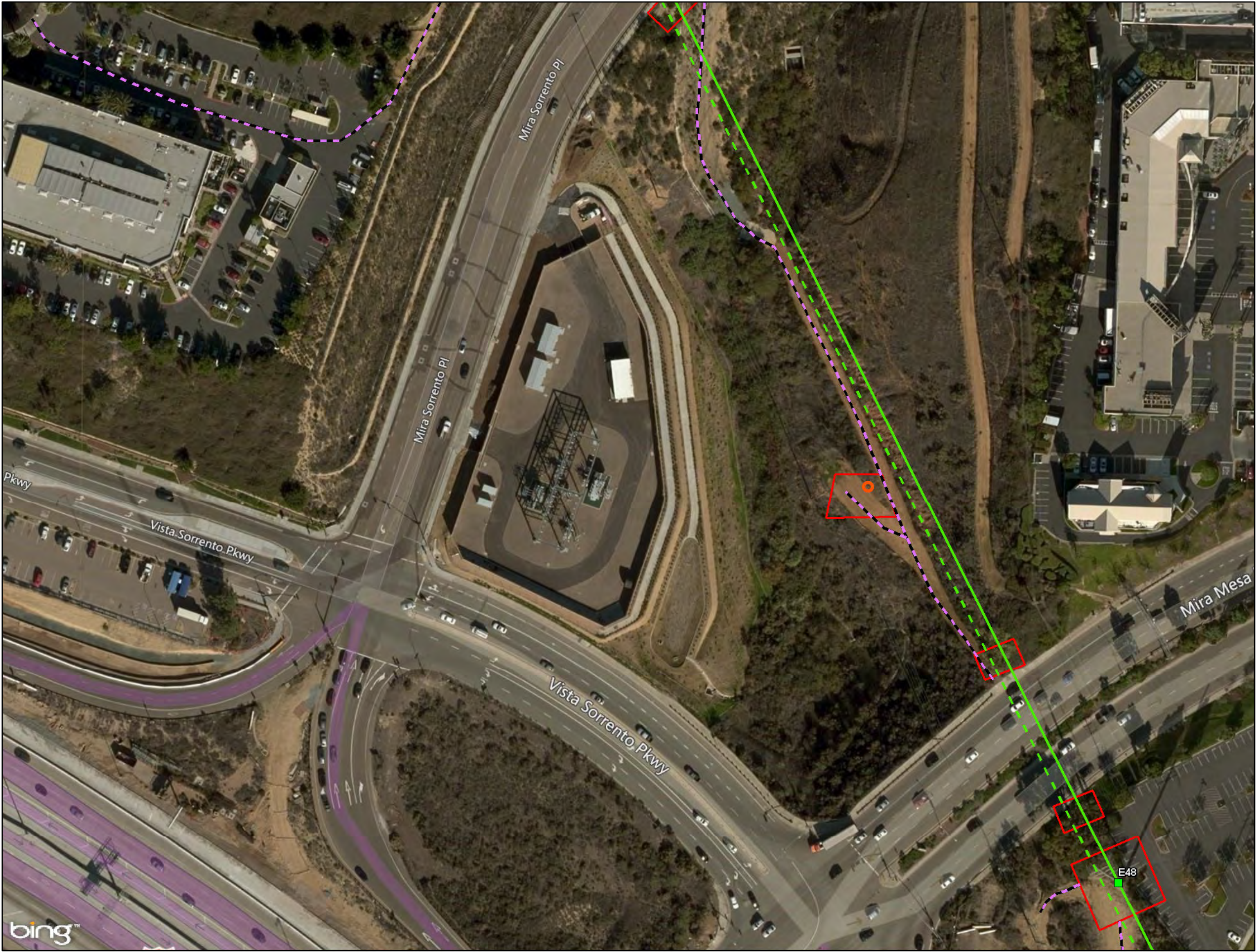
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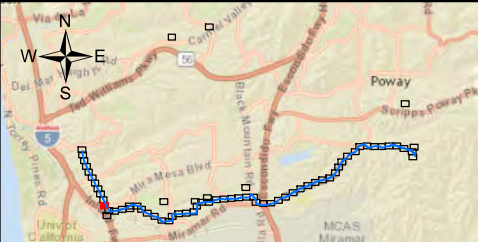
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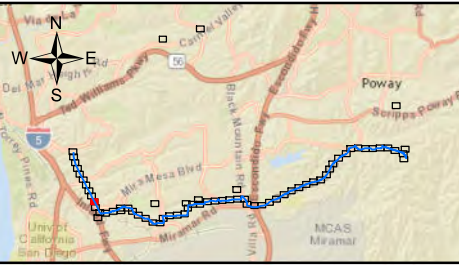
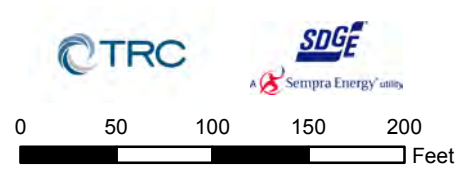
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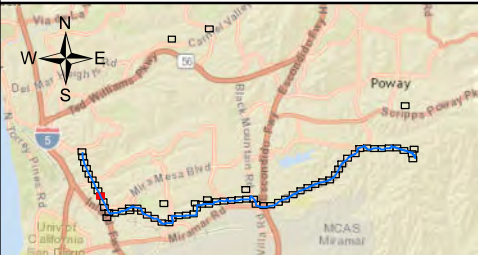
Final Design

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- New 230kV Overhead
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- Access Road
- Retaining Wall
- Temporary Work Space (e.g. structure installation and removal, stringing sites, guard structures, trenching, etc.)
- Underground Vault
- Permanent Impact
- Potential Staging Yard
- Substation

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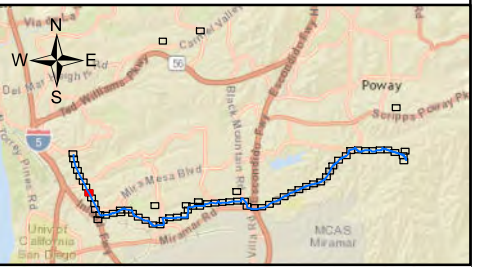
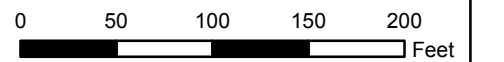


Sycamore to Peñasquitos 230kV Transmission Line Project Final Design Route Map Sheet 53 of 70

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- Existing Structure
- Proposed Structure
- Proposed New ADSS Intersect Structure
- Removed Pole
- AC Mitigation Location
- Entrance Point
- New 230kV Overhead
- New 230kV Underground
- Reconductor 230kV Overhead
- Relocated 230kV Overhead
- Reconductor 138kV Overhead
- Reconductor 138kV Underground
- Access Road
- Retaining Wall
- Temporary Work Space (e.g. structure installation and removal, stringing sites, guard structures, trenching, etc.)
- Underground Vault
- Permanent Impact
- Potential Staging Yard
- Substation

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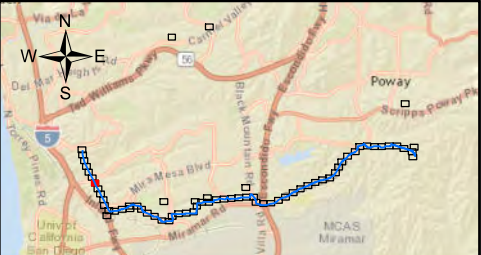
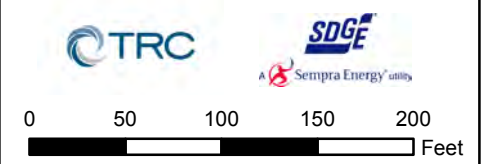
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 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
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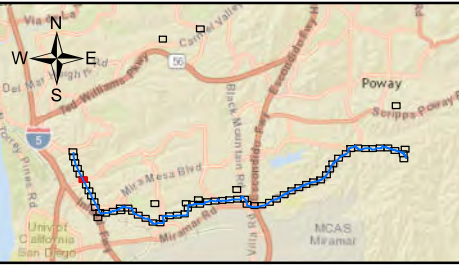
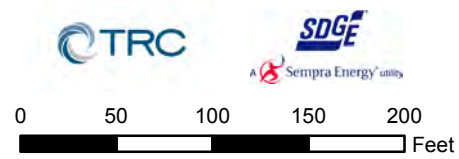
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 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
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 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
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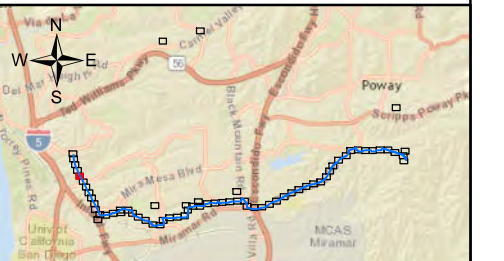
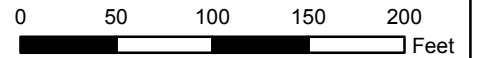


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230kV Transmission
Line Project**
Final Design Route Map
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- Existing Structure
- Proposed Structure
- Proposed New ADSS Intersect Structure
- Removed Pole
- AC Mitigation Location
- Entrance Point
- New 230kV Overhead
- New 230kV Underground
- Reconductor 230kV Overhead
- Relocated 230kV Overhead
- Reconductor 138kV Overhead
- Reconductor 138kV Underground
- Access Road
- Retaining Wall
- Temporary Work Space (e.g. structure installation and removal, stringing sites, guard structures, trenching, etc.)
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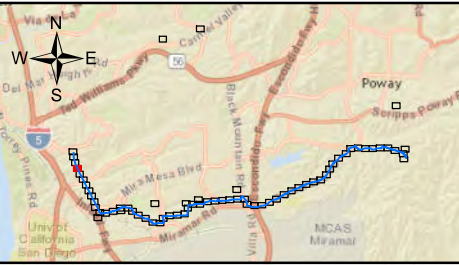
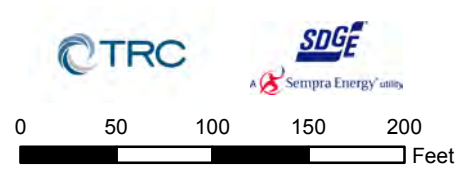
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- Existing Structure
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 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
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 - Retaining Wall
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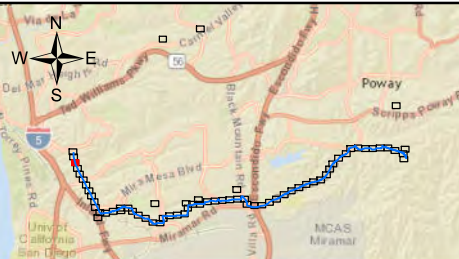
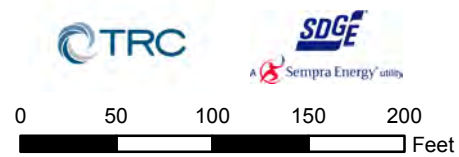
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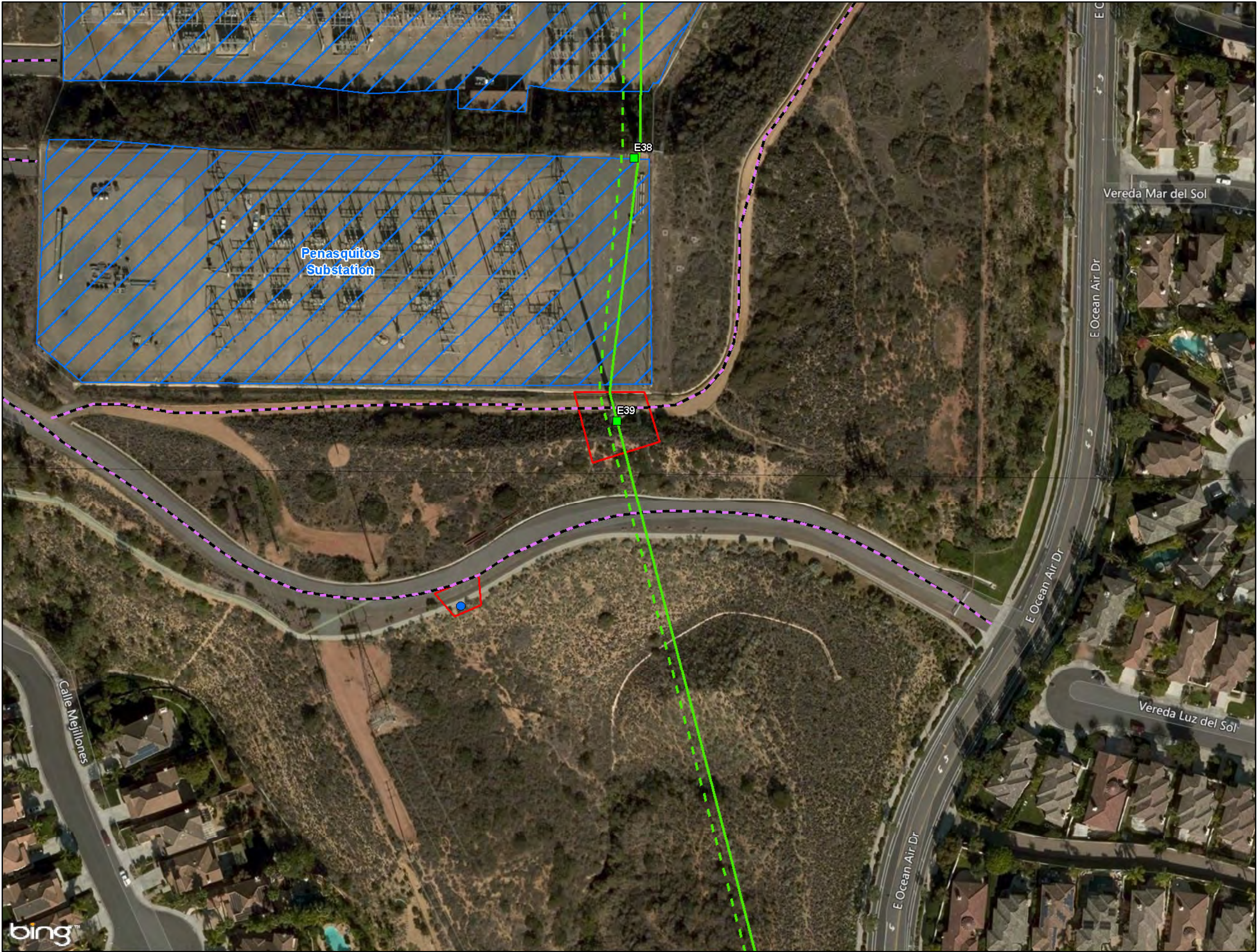
**Sycamore to Peñasquitos
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Line Project**
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- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
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 - Reconductor 230kV Overhead
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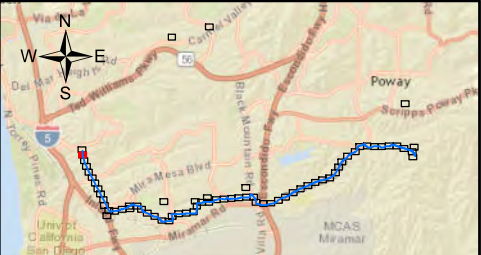
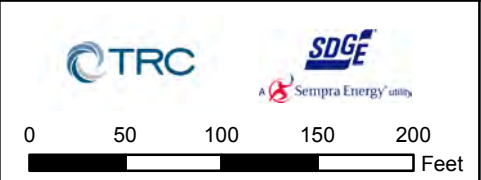
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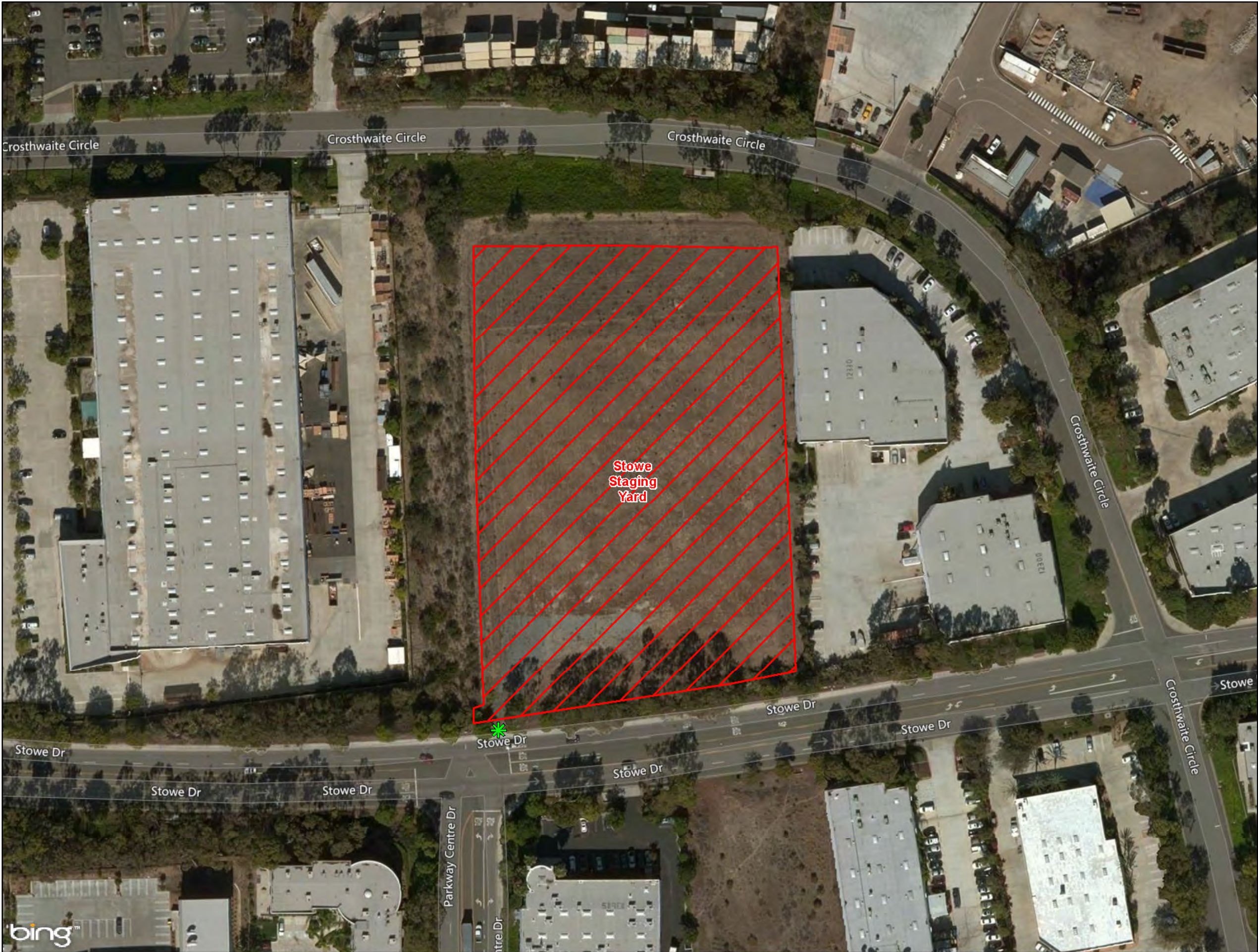
**Sycamore to Peñasquitos
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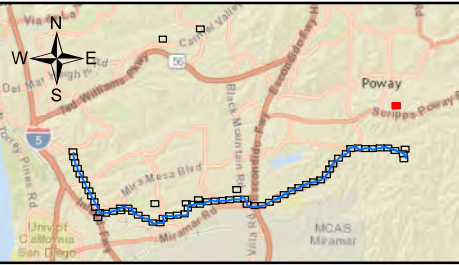
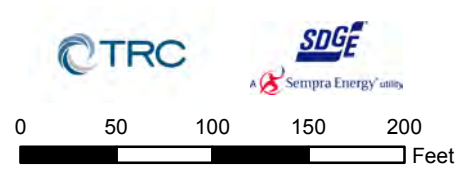
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 - Reconductor 230kV Overhead
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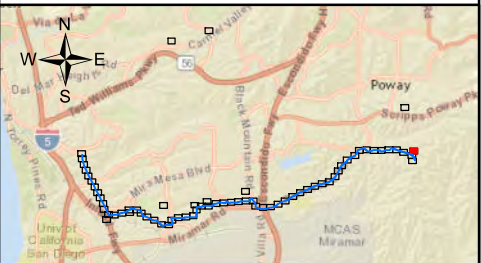
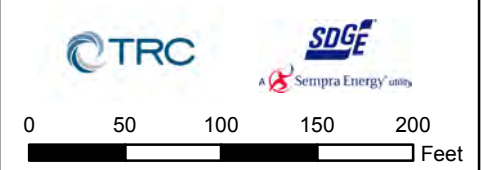
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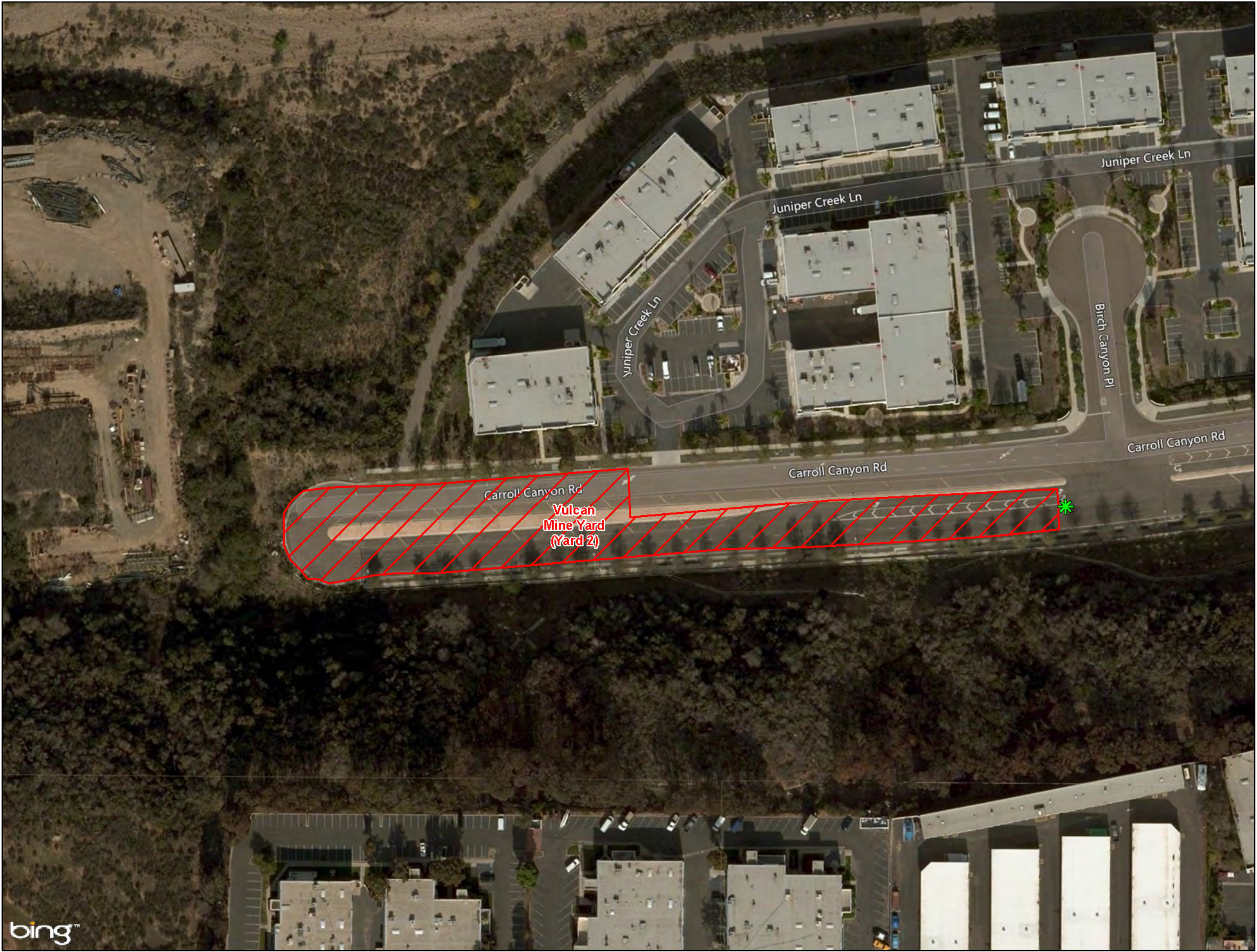
**Sycamore to Peñasquitos
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 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
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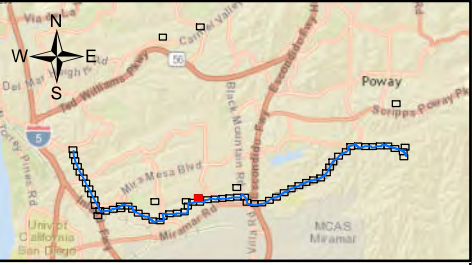
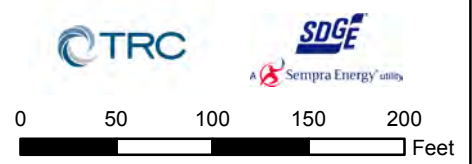
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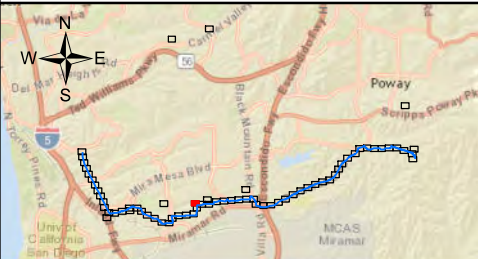
Final Design

- Existing Structure
- Proposed Structure
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- Removed Pole
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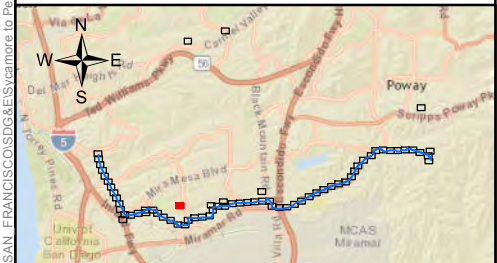
Final Design

- Existing Structure
- Proposed Structure
- Proposed New ADSS Intersect Structure
- Removed Pole
- AC Mitigation Location
- Entrance Point
- New 230kV Overhead
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Feet



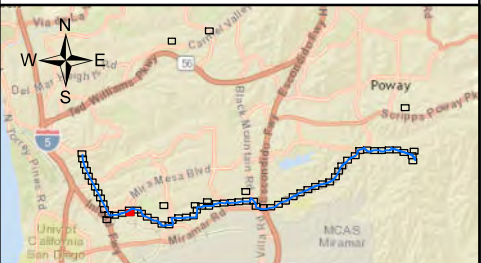
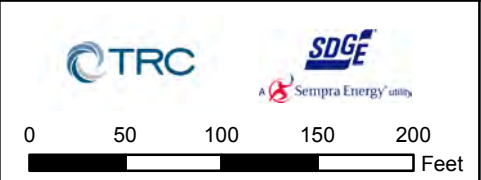
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 - Reconductor 230kV Overhead
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 - Reconductor 138kV Overhead
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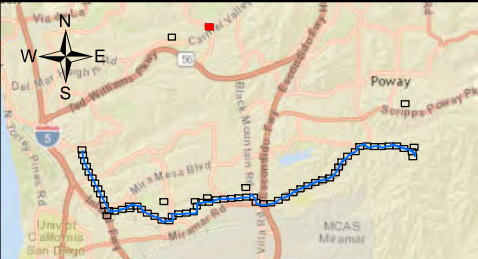
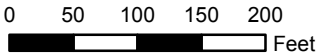


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- Existing Structure
- Proposed Structure
- Proposed New ADSS Intersect Structure
- Removed Pole
- AC Mitigation Location
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- New 230kV Underground
- Reconductor 230kV Overhead
- Relocated 230kV Overhead
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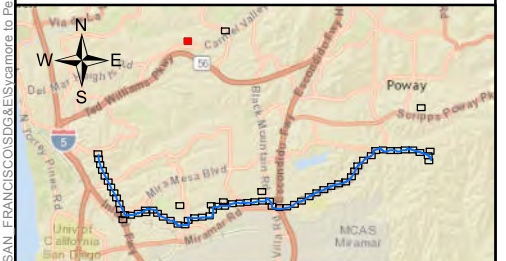
Final Design

- Existing Structure
- Proposed Structure
- Proposed New ADSS Intersect Structure
- Removed Pole
- AC Mitigation Location
- Entrance Point
- New 230kV Overhead
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Feet



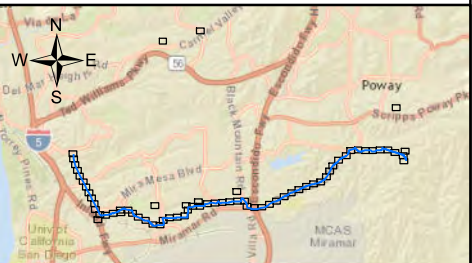
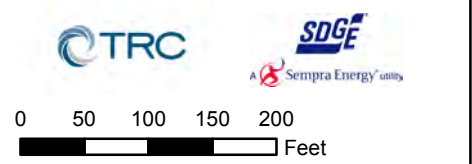
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**Sycamore to Peñasquitos
230kV Transmission
Line Project**
Final Design Route Map
Sheet 70 of 70

- Final Design**
- Existing Structure
 - Proposed Structure
 - Proposed New ADSS Intersect Structure
 - Removed Pole
 - AC Mitigation Location
 - Entrance Point
 - New 230kV Overhead
 - New 230kV Underground
 - Reconductor 230kV Overhead
 - Relocated 230kV Overhead
 - Reconductor 138kV Overhead
 - Reconductor 138kV Underground
 - Access Road
 - Retaining Wall
 - Temporary Work Space (e.g. structure installation and removal, stringing sites, guard structures, trenching, etc.)
 - Underground Vault
 - Permanent Impact
 - Potential Staging Yard
 - Substation

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