

An ecological approach to recreation & stormwater management

CALDER CREEK VISION PLAN



IVES PARK



**DOWNTOWN
SEBASTOPOL**



**RAILROAD
FOREST**



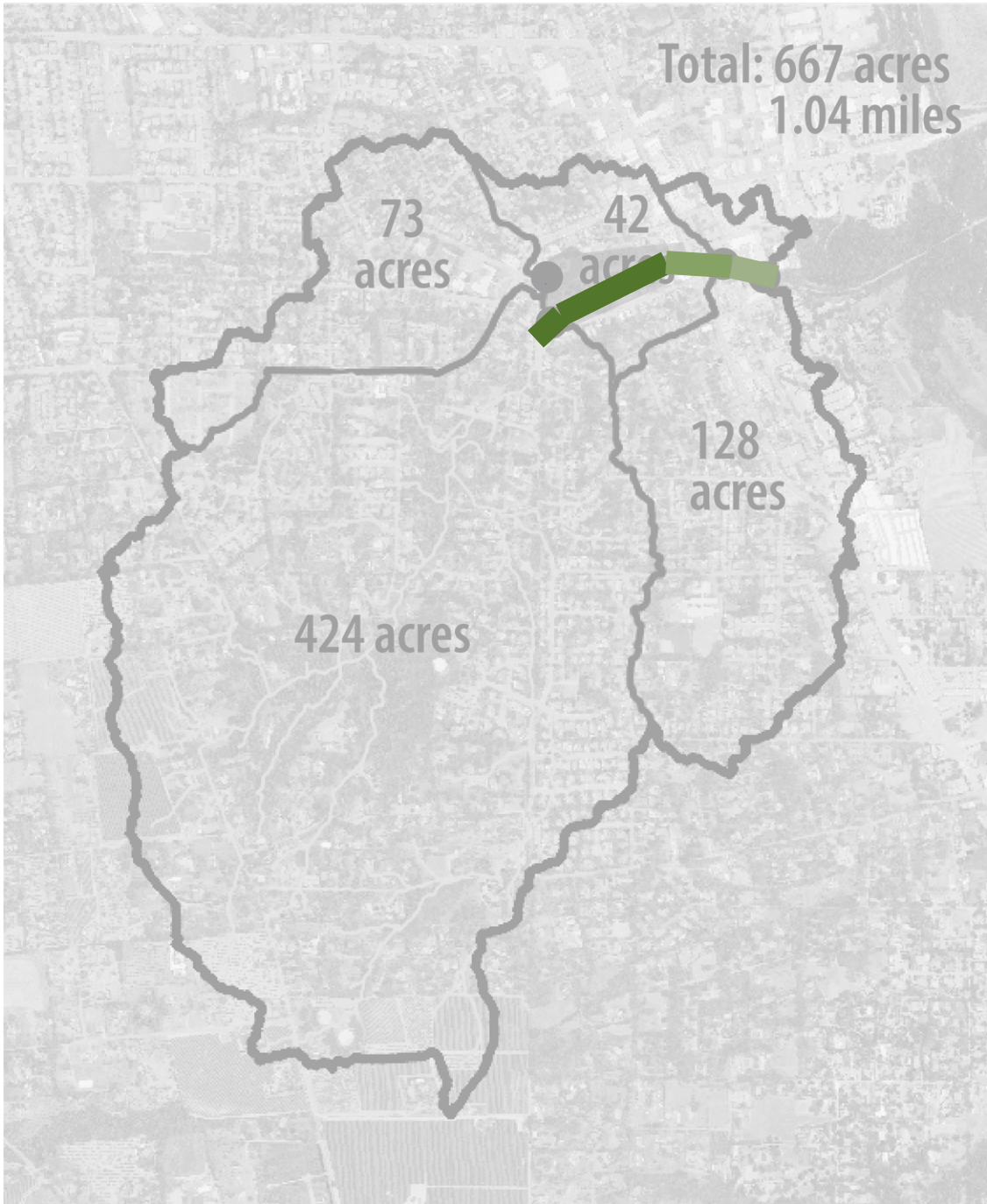
**WILDLING
DESIGN STUDIO**



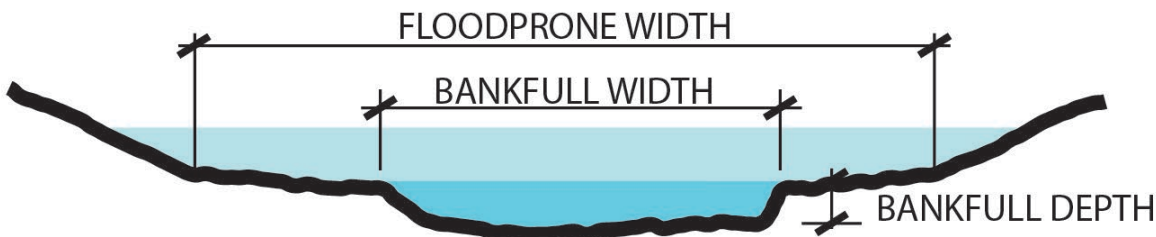
**Waterways
Restoration
Institute**

Today's focus: Ives Park (and a little of Downtown)



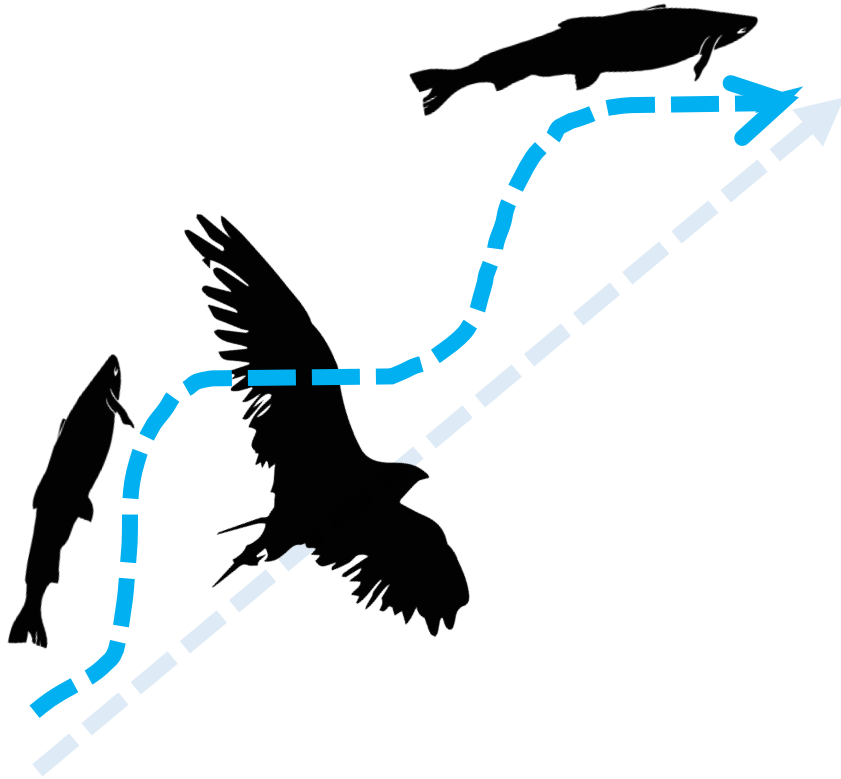


Drainage Area & Design Parameters



	Drainage Area (Square Miles)	Bankfull Width (ft)	Bankfull Depth (ft)	Floodprone Width (ft)
The Intersection & Ives Park	0.77	8-10	1.5	20
Downtown	0.84	8	3	22
Railroad Forest	1.04	8	3	24

Stream Geometry: Relationship between Slope – Stream Length - Sinuosity

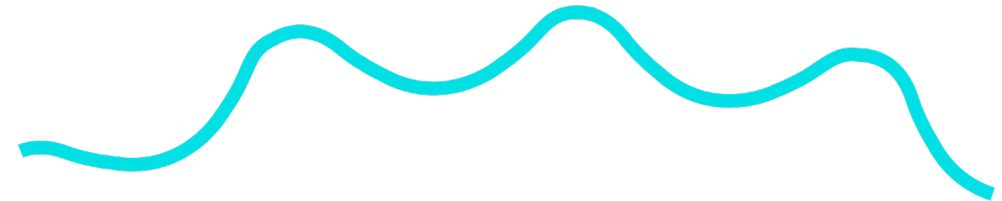


Stream Length

Ratio of Fish/Bird = 1.3

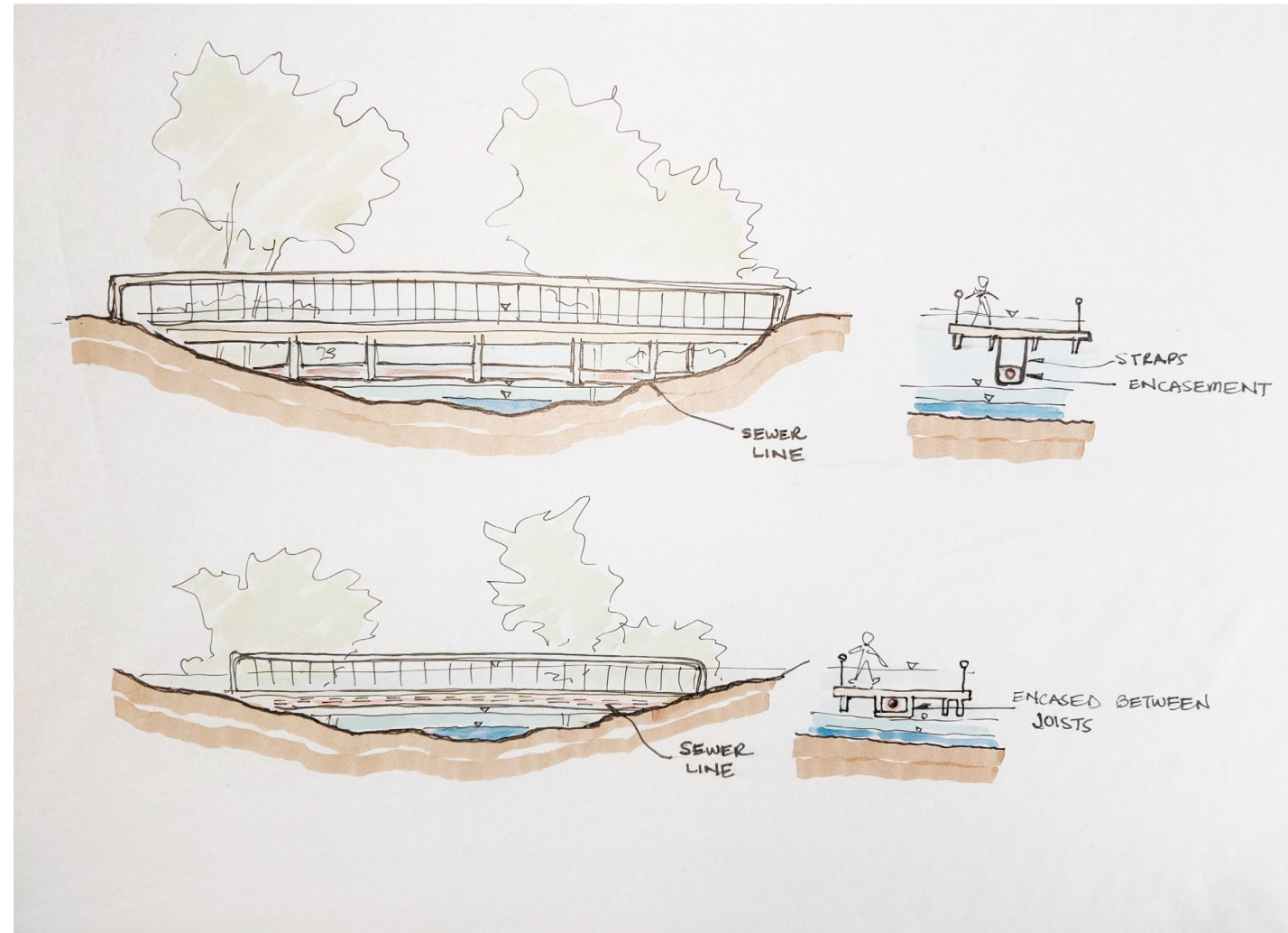
Sinuosity (Curviness)

Ratio related to channel width



**Ideal stream channel geometry
for general stability**

Utility Crossing Concepts



Preliminary estimates of channel depth relative to utility position suggest that it may be able to be encased or hung from a bridge for protection.

Ives Park (Includes Jewell Intersection)



Constrained



- Closest to current alignment
- Preserves some redwood trees
- Playground near BBQ and restroom
- Event area large lawn
- Rose garden centrally located
- Seating area by creek w/stepped access
- Stream length least stable

Updated Charrette



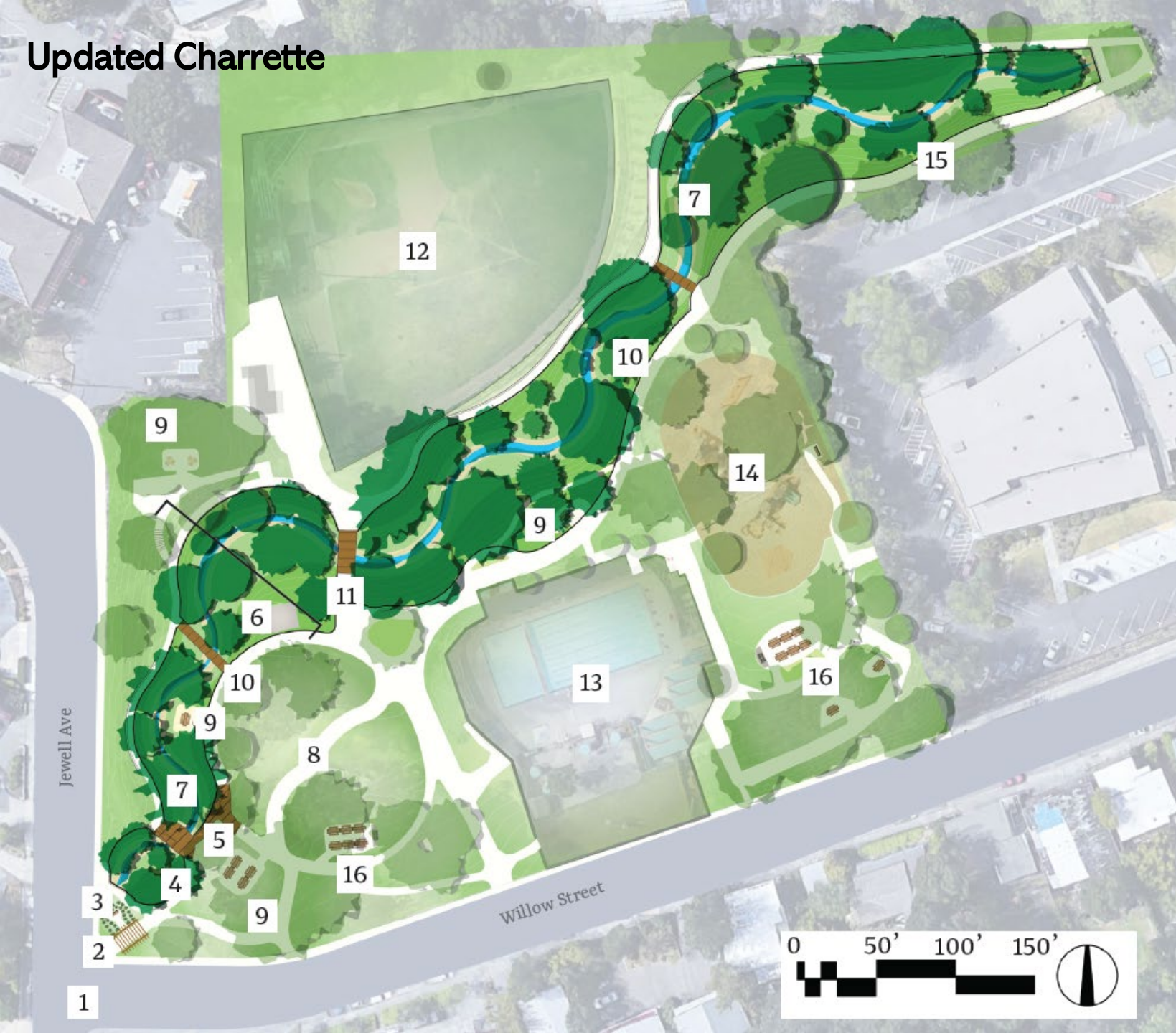
- New alignment winds through park
- Probably preserves more redwood trees
- Playground near Arts Bldg parking
- Event lawn includes preserved redwoods
- Rose garden at Jewell entry
- Stream length on target for stability

Stable Planform



- Creek defines the park
- Preserves some redwood trees
- Playground near Arts Bldg parking
- Largest event/great lawn
- New Fairy Tale Forest or other nature play area
- New dog park or other medium sized lawn activity area
- Small lawn area
- Stream length and planform most stable

Updated Charrette



CALDER CREEK RESTORATION INFORMS MASTER PLAN UPDATE

- 1 New T Intersection
- 2 New park entry
- 3 Rose garden
- 4 Preserved redwood trees
- 5 Boardwalk trail section
- 6 New stage
- 7 Restored Calder Creek
- 8 Central green
- 9 Picnic area
- 10 Pedestrian bridge
- 11 Vehicular access bridge
- 12 Baseball field
- 13 Pool
- 14 Playground
- 15 Sculpture Garden / High Entry
- 16 BBQ area



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STAGE BOARDWALK & DECK OVERLOOK LOW TERRACE & SEAT WALLS NORTH ENTRY OVERLOOK



Art Walk Perspective



CALDER CREEK RESTORATION INFORMS MASTER PLAN UPDATE



Downtown Preliminary Vision Concept



CALDER CREEK RESTORATION DOWNTOWN VISION CONCEPTS

CALDER CREEK CAN INSPIRE NEW AMENITIES AND ATTRACTIONS



CALDER CREEK RESTORATION DOWNTOWN VISION CONCEPTS

CALDER CREEK CAN INSPIRE NEW AMENITIES AND ATTRACTIONS



HIGH STREET - S. MAIN STREET

High Street

S. Main Street

S. Main Street



- 1 Daylighted Creek
- 2 Boardwalk
- 3 Overlook
- 4 Promenade
- 5 Seating area
- 6 Creek access
- 7 Walkway

High Street

Mixed Use/Downtown Commercial Development Concept Perspective



- 1 Daylighted Creek
- 2 Boardwalk
- 3 Overlook
- 4 Promenade
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CALDER CREEK RESTORATION DOWNTOWN VISION CONCEPTS

CALDER CREEK CAN INSPIRE NEW AMENITIES AND ATTRACTIONS



S. MAIN STREET - PETALUMA AVENUE

S. Main Street

S. Main Street

Petaluma Ave

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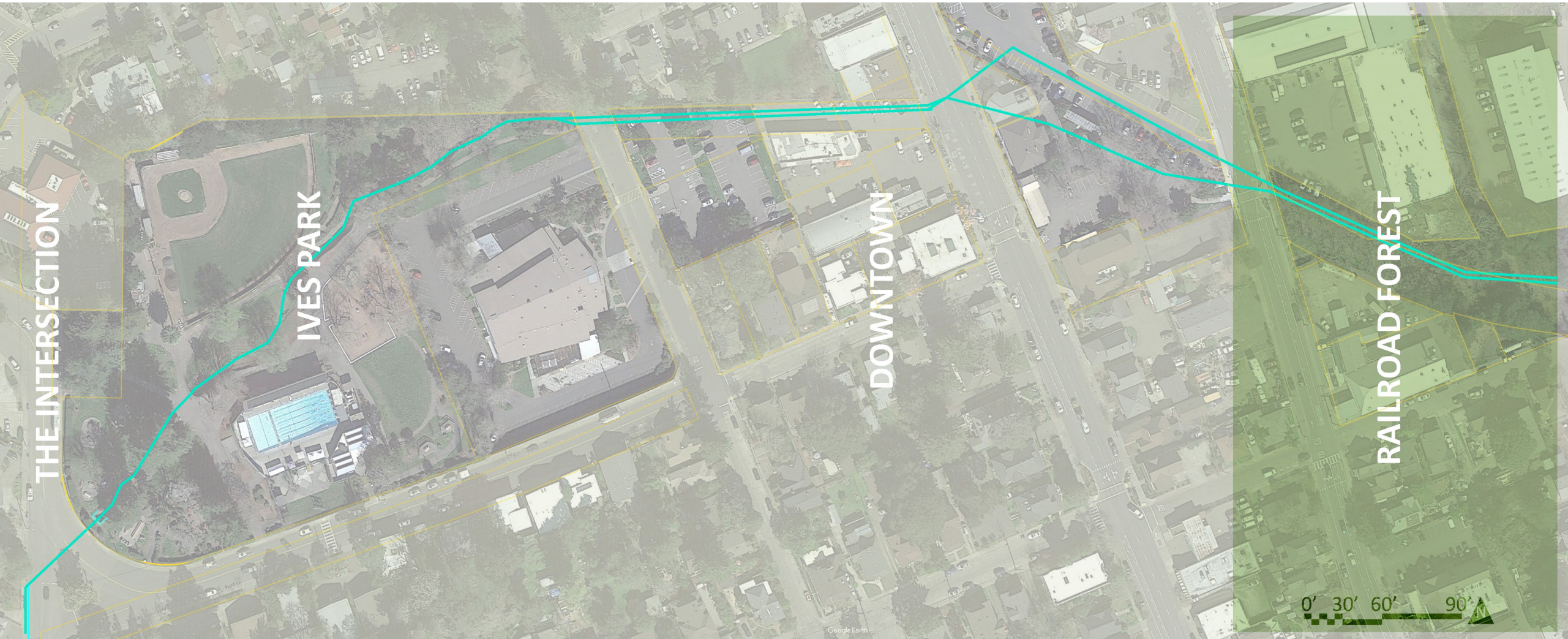


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Mixed Use/Downtown Commercial Development Concept Perspective



Railroad Forest Preliminary Vision Concept



Preliminary Daylighting Concept: Remove trail fill, use boardwalk to preserve existing trees

