

Redlands Passenger Rail Project



Consultant Workshop

Project Overview and RFP Opportunities

December 17, 2014

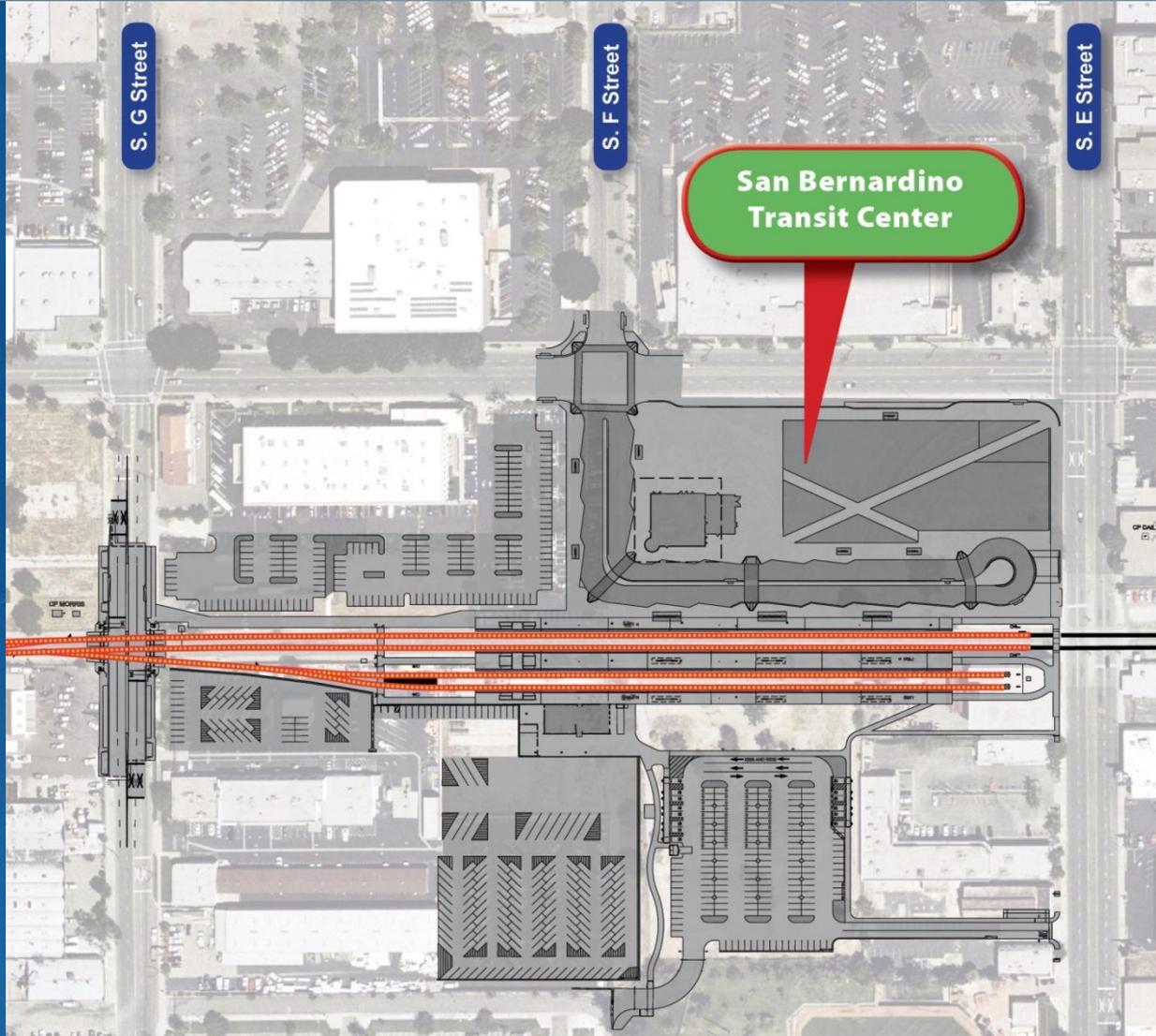




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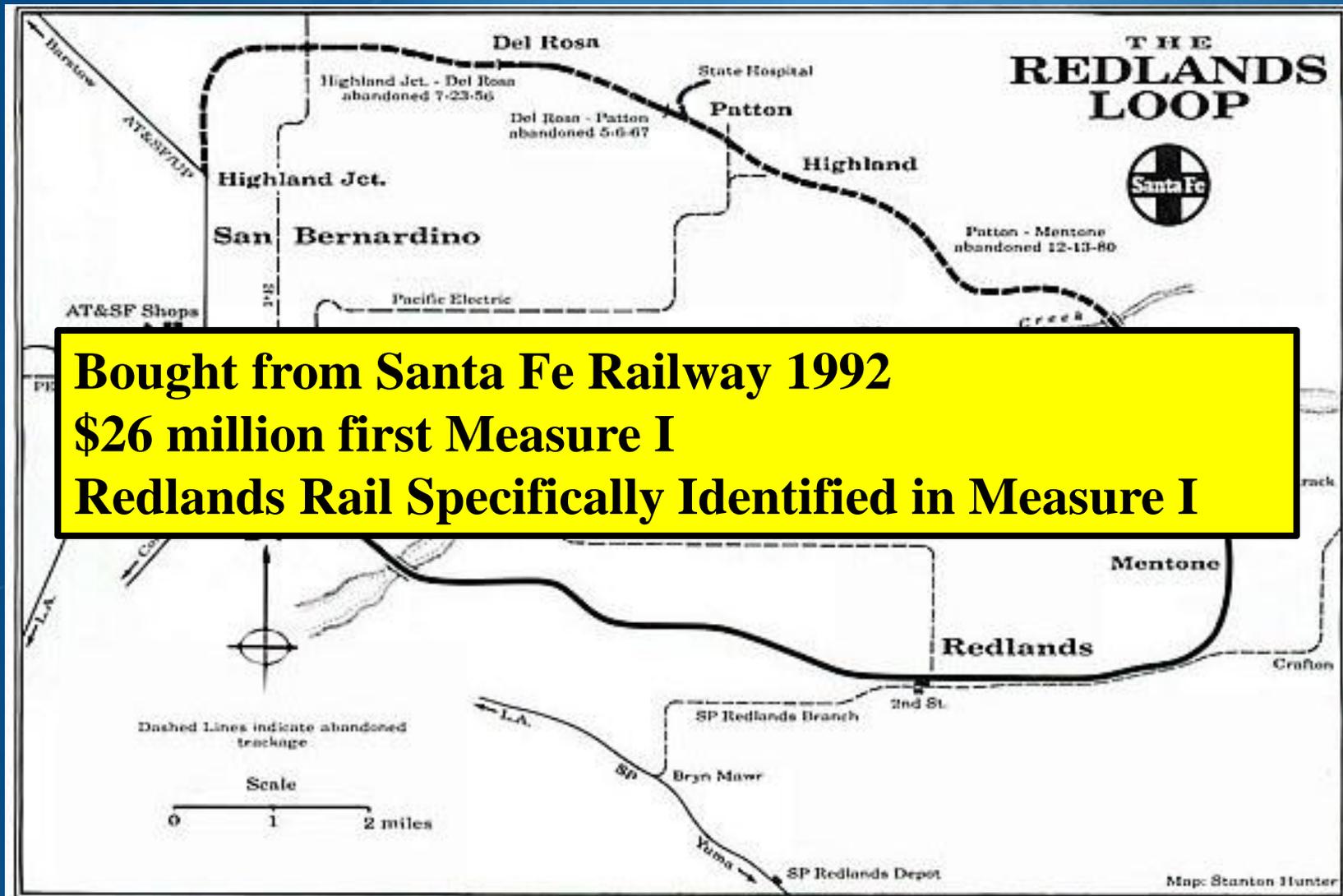
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San Bernardino Transit Center





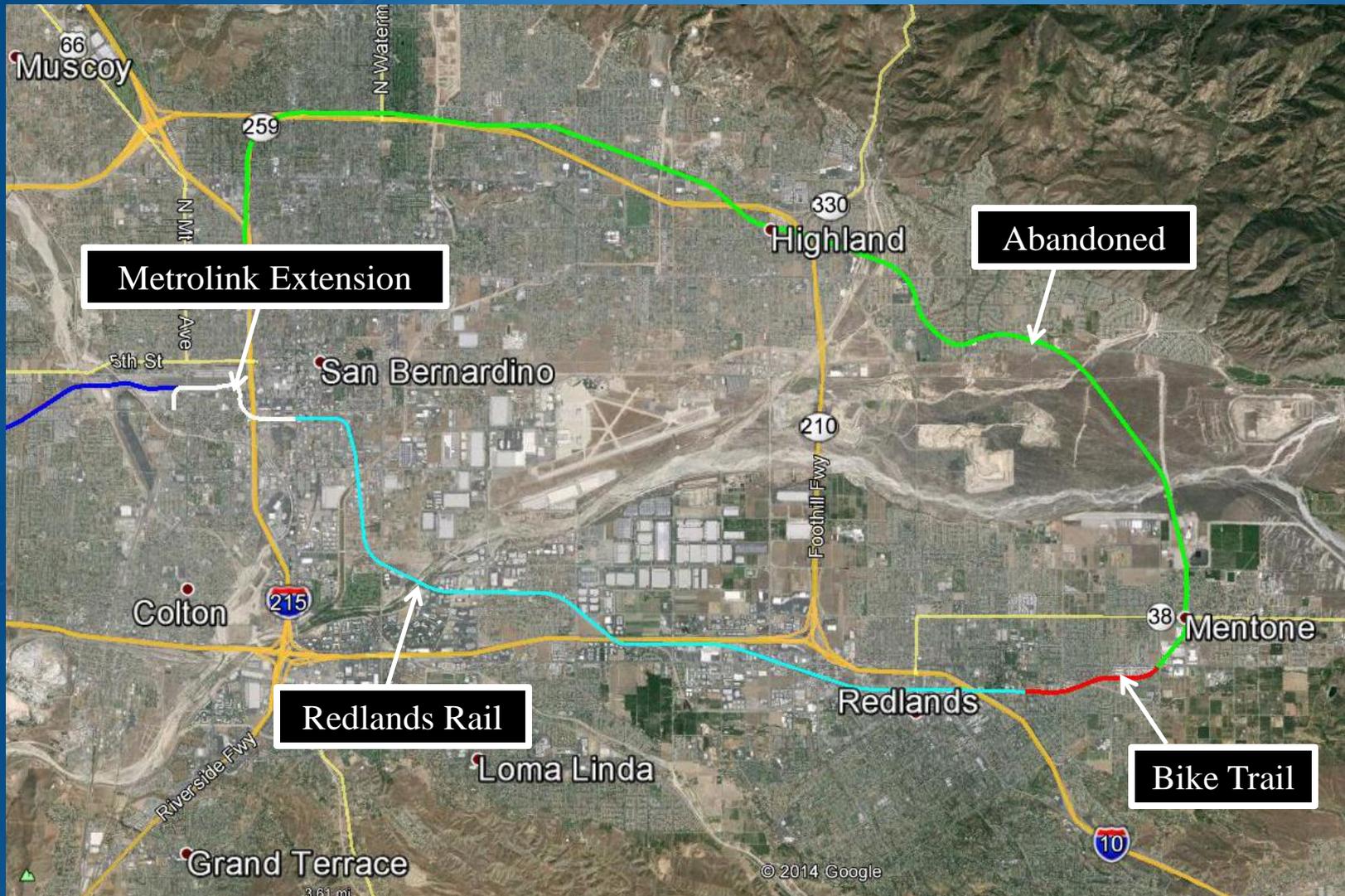
Historic Alignment



Bought from Santa Fe Railway 1992
\$26 million first Measure I
Redlands Rail Specifically Identified in Measure I

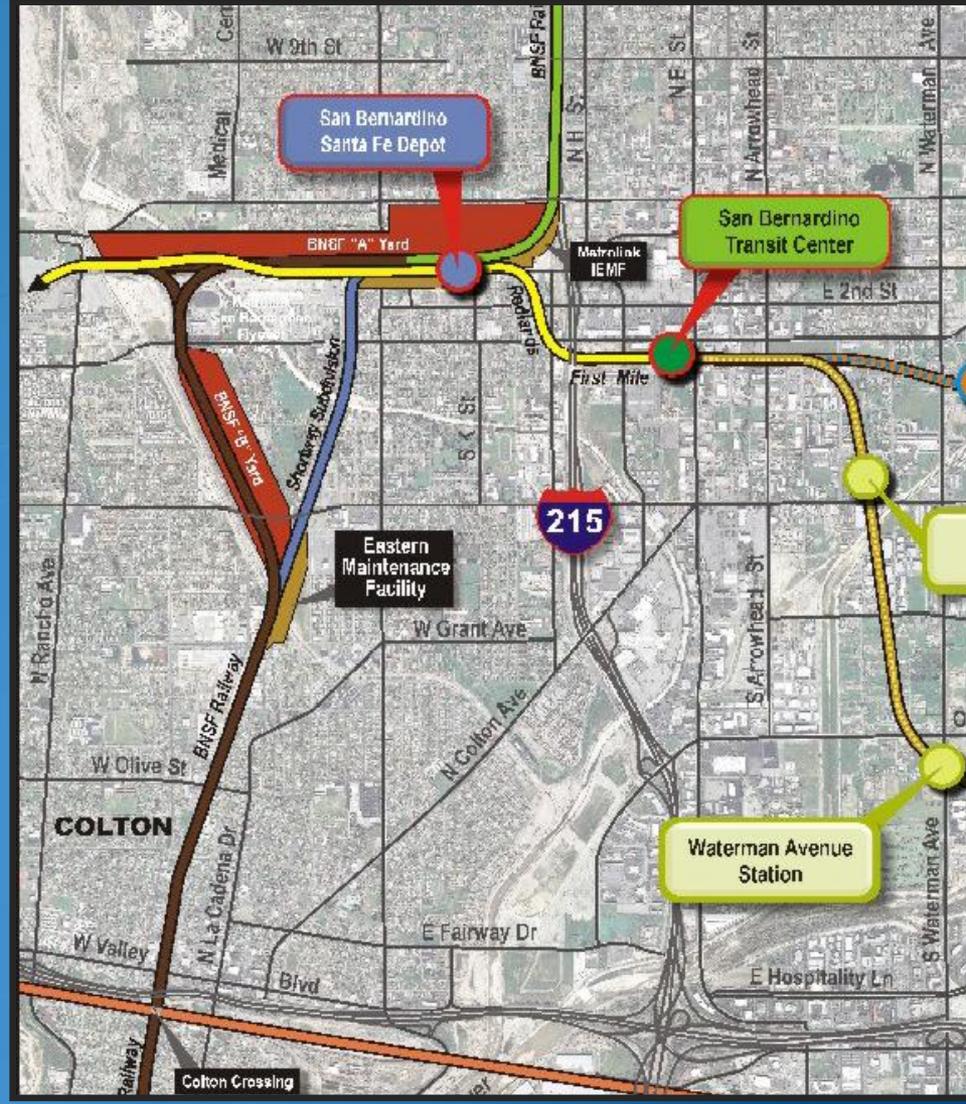


Historic Alignment



Phased Approach

- Redland Passenger Rail Local Preferred Alternative Adopted by SANBAG Board May 2009
- Eastern Maintenance Facility Construction Complete July 2013
- Downtown San Bernardino Passenger Rail Project Start Construction Complete Fall-2016
- San Bernardino Transit Center Construction Complete Mid-2015



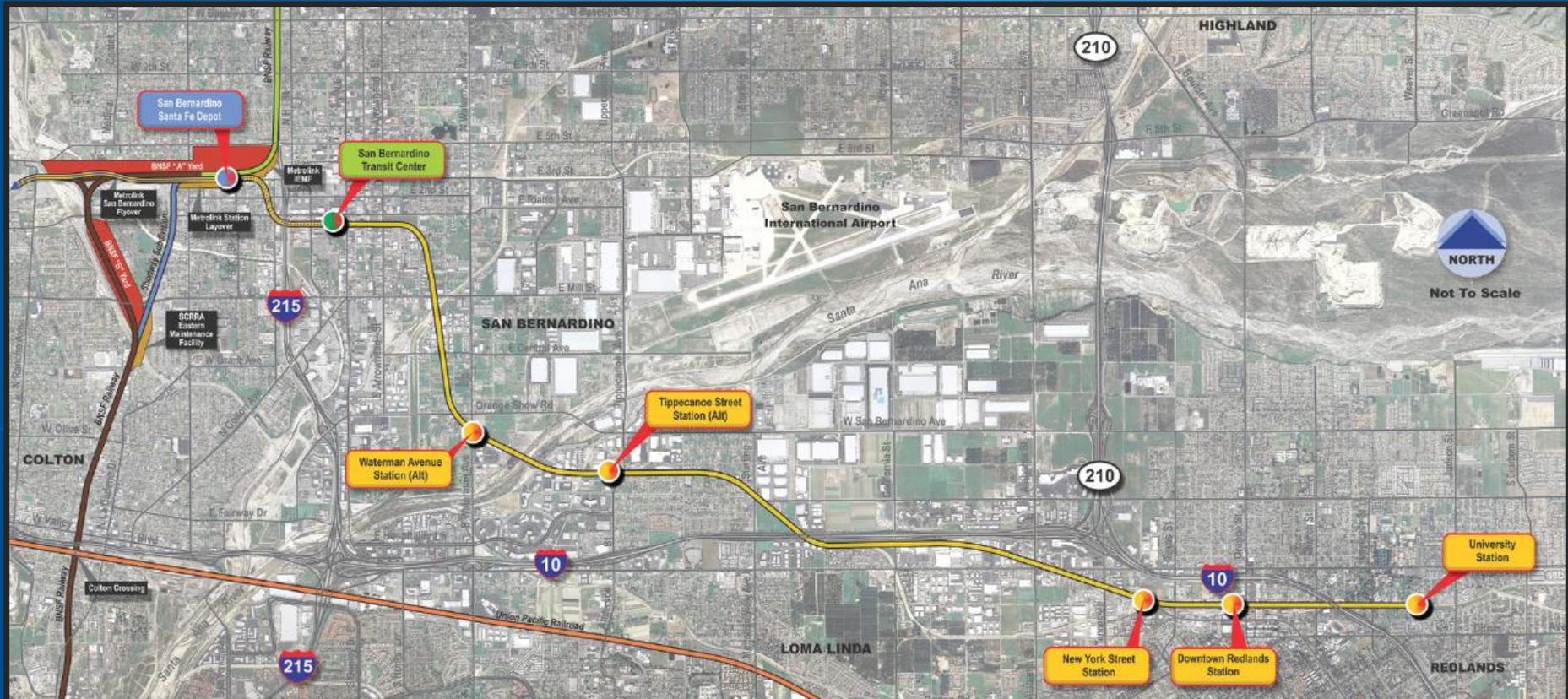


Ultimate and 1st Phase

Early 2015 - Environmental Clearance (EIR/EIS)

2017 - Final Design Complete

2019 – Begin Operation





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Metrolink Service





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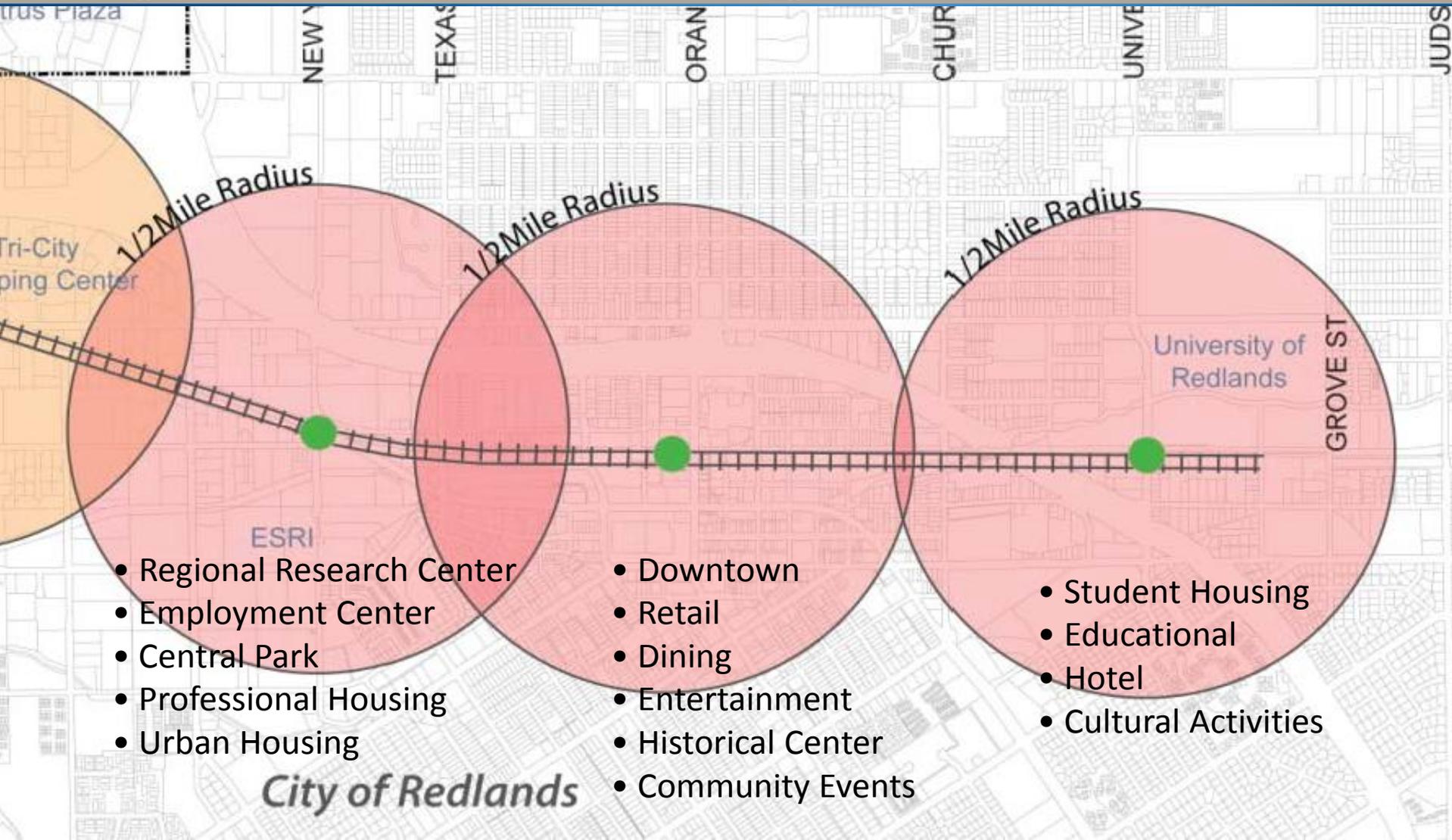
Diesel Multiple Unit (DMU) Intercity Service



FRA Compliant



Integrated Land Use Planning & Transit Investment

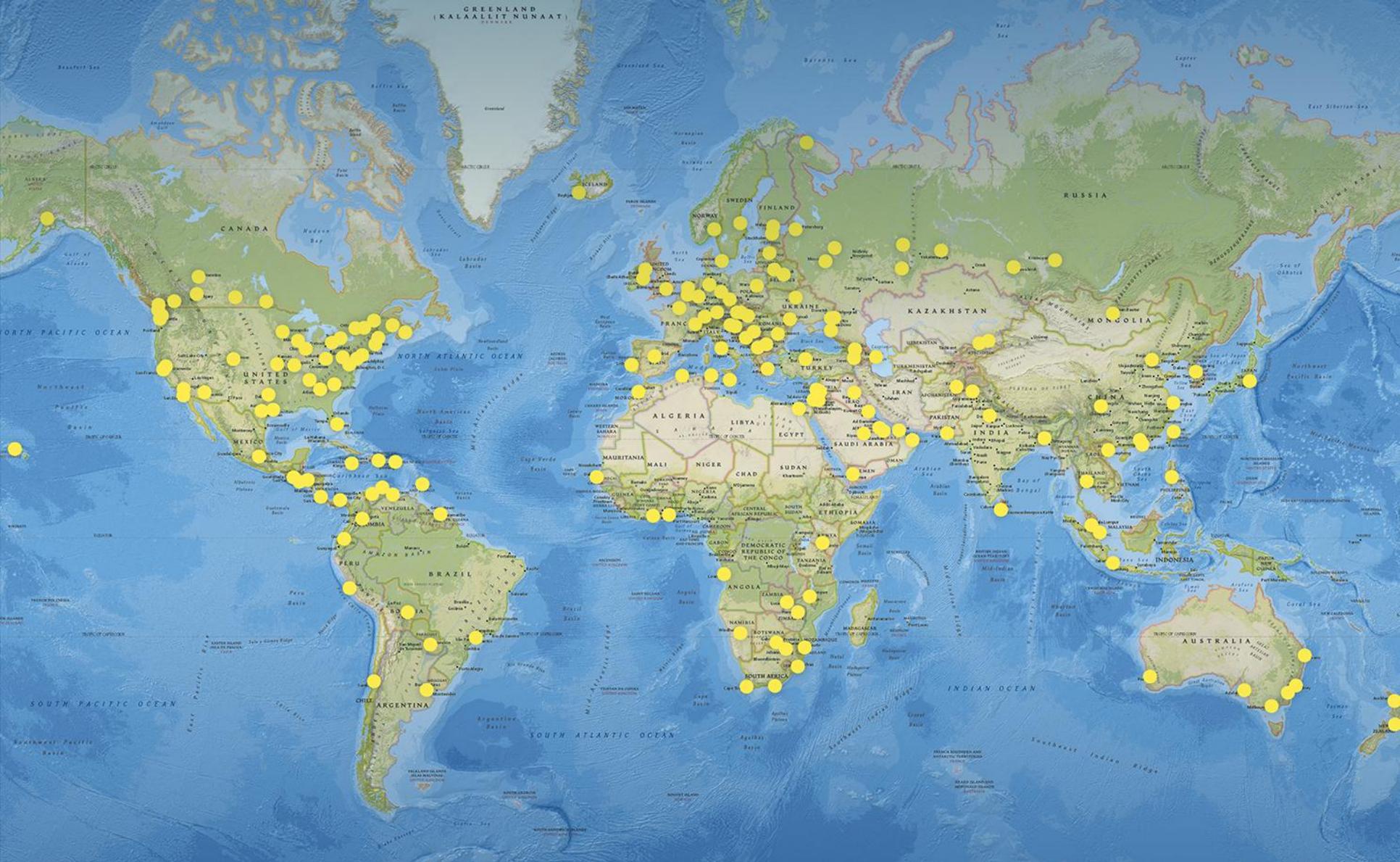


Transportation Planning



Understanding our world.

Infrastructure and services | Supporting our
goals, employees and customers



A global company

350,000 customers globally



3,000 Esri employees

Actively Seeking transportation alternatives

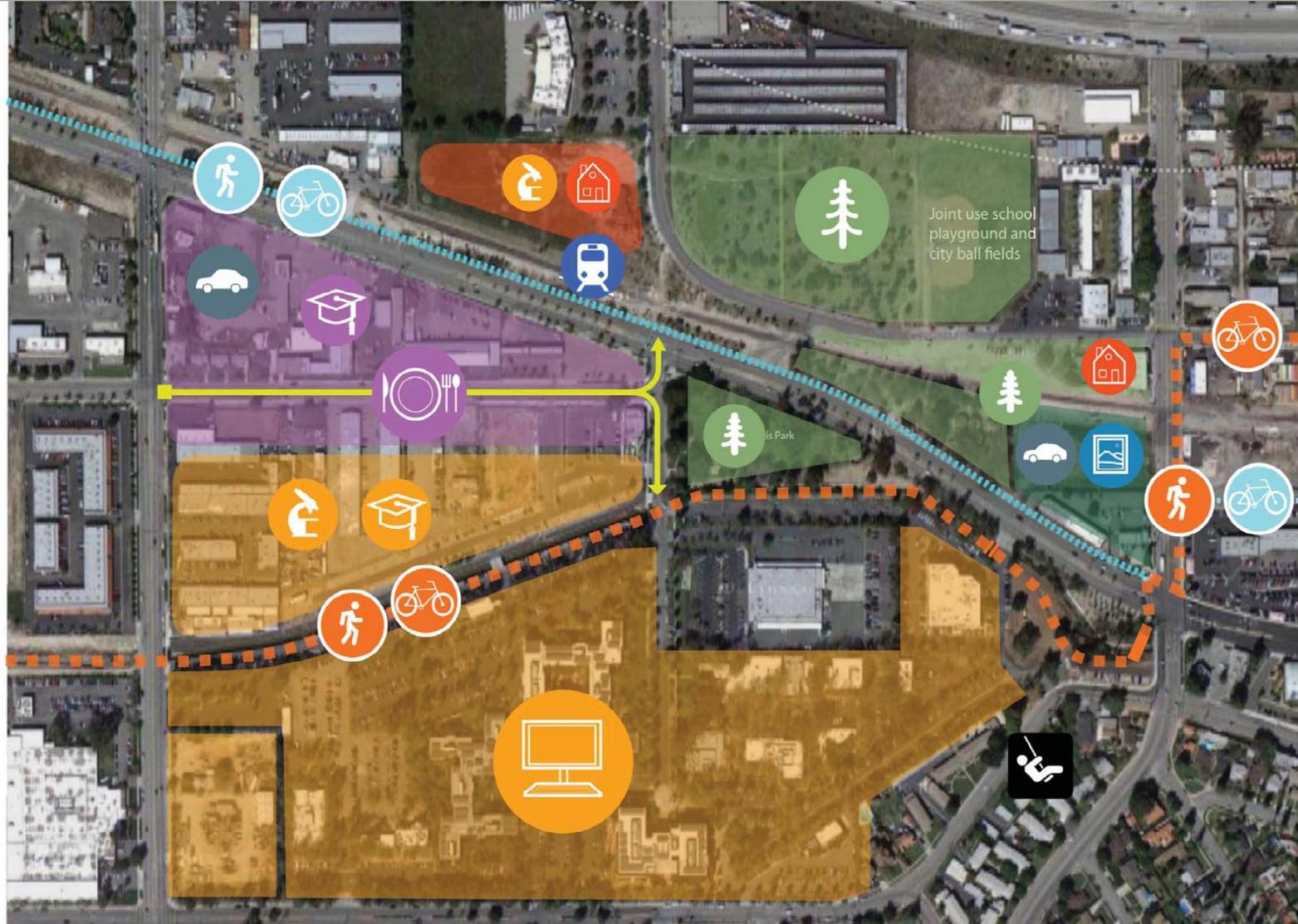


Constant Growth

Expanding Software as a
Service Offering



Integrated Land Use Planning & Transit Investment





Transportation

Link to local resources for
visitors and employees



Transportation

Serving professional workforce
and students



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DOWNTOWN REDLANDS TRANSIT CENTER

LEED Silver
Solar
LED Lights

450 Parking Spaces

6000 s.f. Commercial

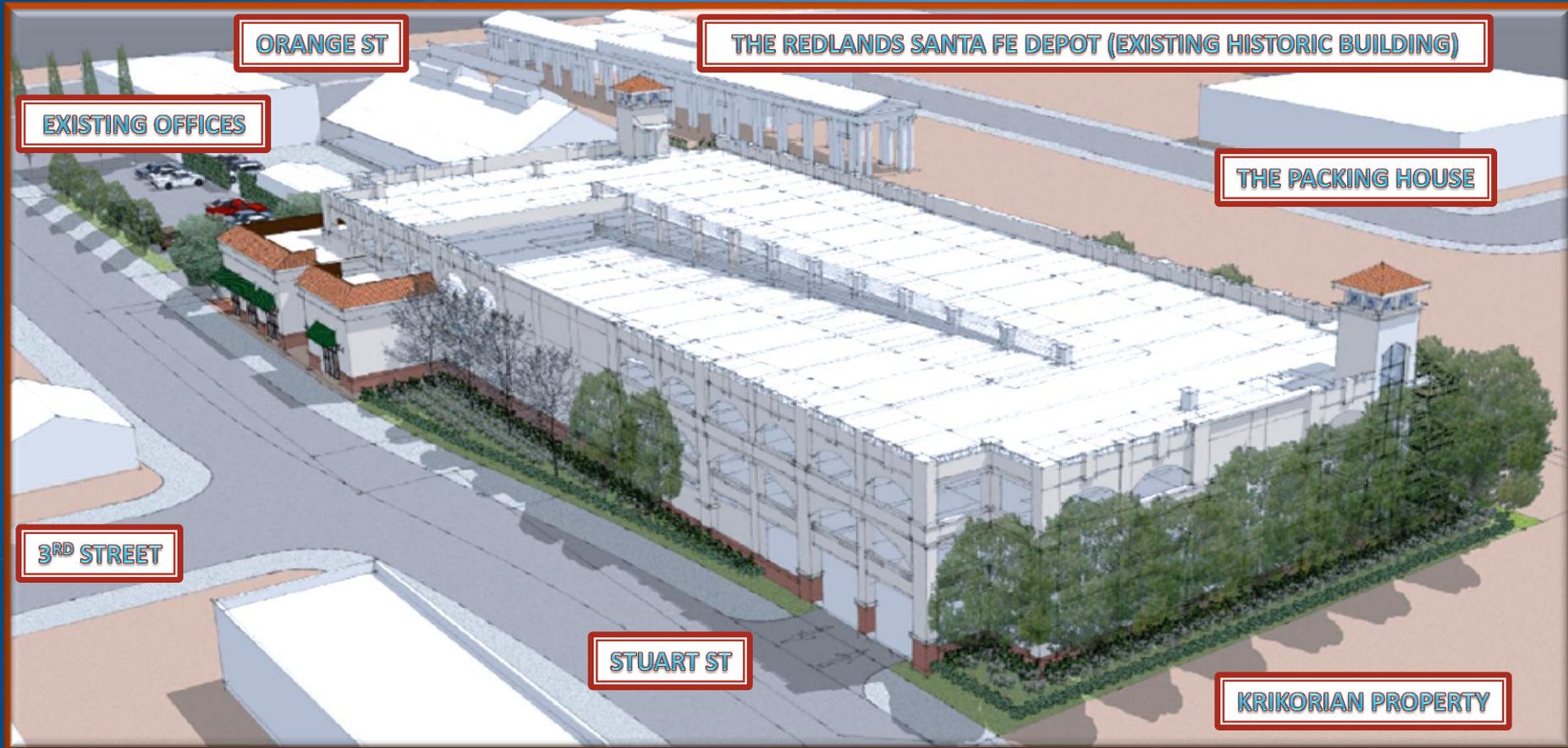




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Integrated Land Use Planning & Transit Investment Redlands Transit Center



Northwest Elevation



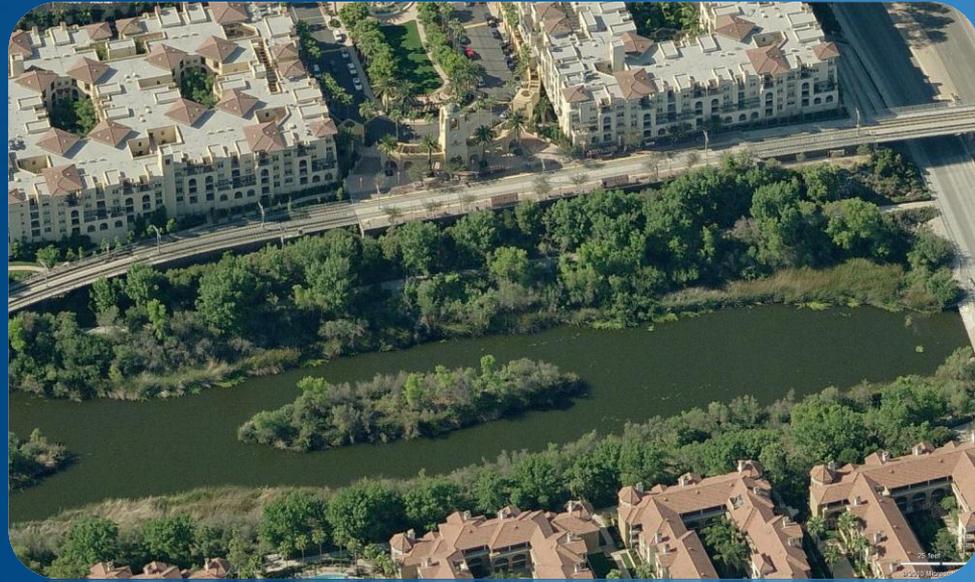
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University Village University of Redlands

TOD precedents





Market Housing



Limited Retail



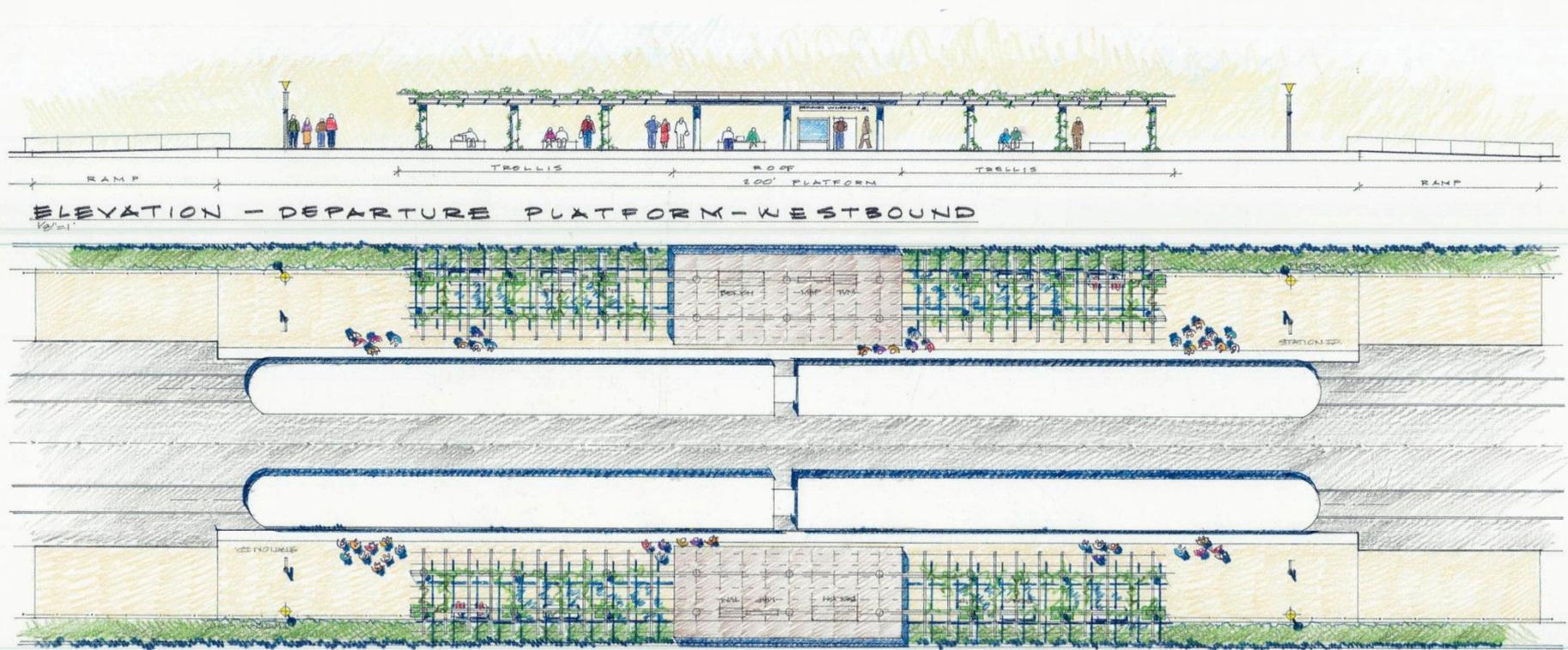
University Housing



Hotel

University Village Station Concept:

- Side Platforms, departures from either side



Basic Project

- Limited Metrolink Service Directly to SB and LA
- DMUs – San Bernardino to Redlands
- BNSF Freight Service to Tippecanoe
- Replace 9 Miles of Track
- 2-Mile Siding
- Replace 4 Bridges
 - 370' Santa Ana River (Off-line Single-track)
 - 120' Warn Creek (Double-track)
 - 50' Earth Channel
 - Gage Canal

Basic Project

- Rebuild IEMF in SB for Maintenance Facility
 - Environmentally Cleared
 - Concept through Construction
- Replace 18 Grade Crossings
- Close 2 - 4 Grade Crossings
- Advanced Grade Crossing Replacements by Others
 - Alabama and Colton (Redlands)
 - Mountain View (San Bernardino/Redlands)
- Quiet Zones

Basic Project

- Station Platforms
 - Option 1 - Level Boarding Platforms (DMU only)
 - Option 2 - Dual Use Platforms (Metrolink & DMU)
- Build 5 Station Platforms
 - San Bernardino Transit Center
 - California Street
 - New York Street (ESRI)
 - Downtown Redlands
 - University of Redlands
- Dual Use Platforms/Level Boarding

Basic Project

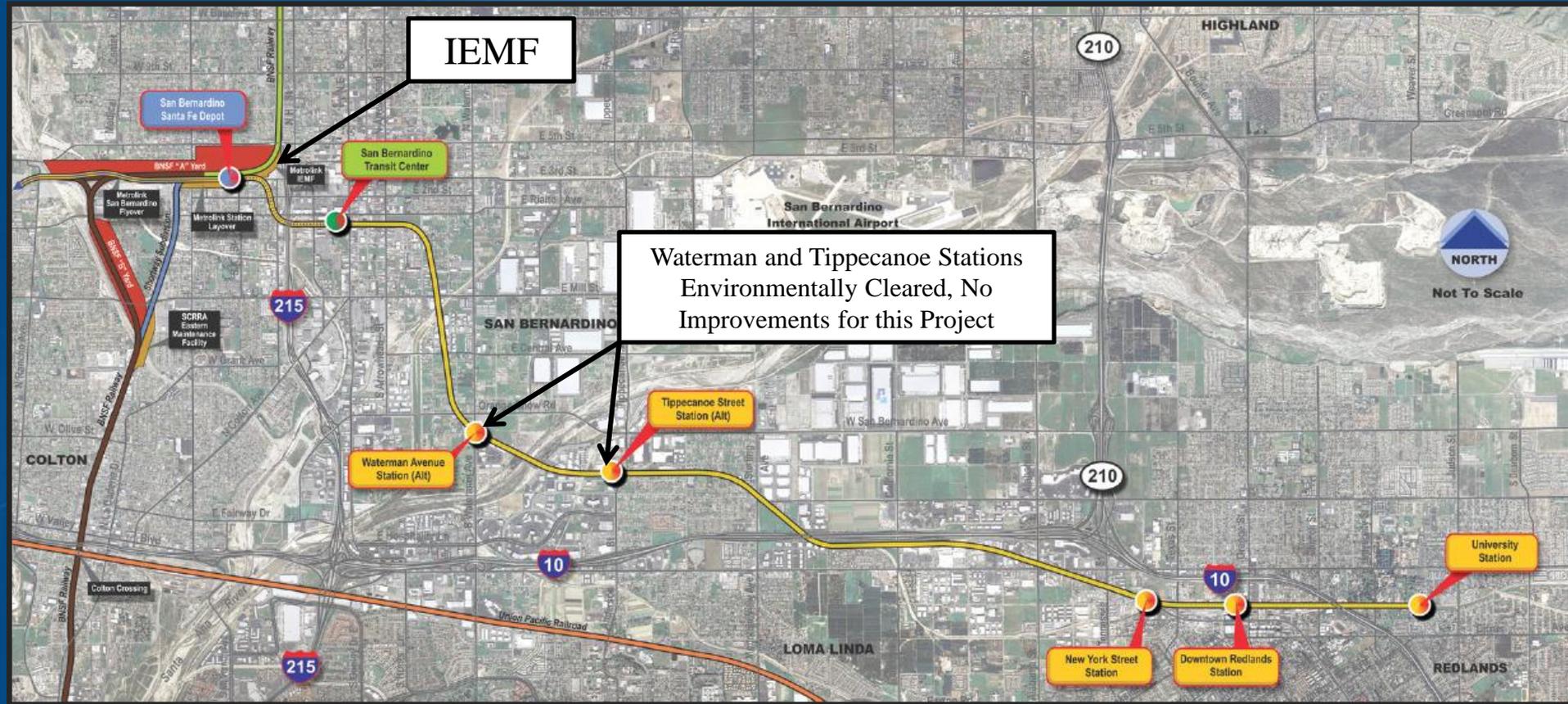
- **Station/Platform Design**
 - San Bernardino Transit Center (transit only tracks, no freight)
 - California Street (basic minimal design)
 - New York Street (ESRI) (custom design)
 - Downtown Redlands (basic minimal design)
 - University of Redlands (custom design)
- **New York Street and University of Redlands**
 - Design, Construction, Maintenance, and Security Agreements
 - ESRI Custom Station
 - U of R – Enhanced Improvements (includes crew restrooms)

Basic Project

- Security Systems
 - Option 1 – Capture Video at Stations
 - Option 2 – Transmit Images to Central Location
- TVM
 - Option 1 – Use Existing from Other Systems
 - Option 2 – System within Project Only
- Train Control
 - Option 1 - ABS instead of CTC/PTC (DMU only)
 - Option 2 - CTC/PTC (Metrolink & DMU)



Phase I





IEMF Re-configure

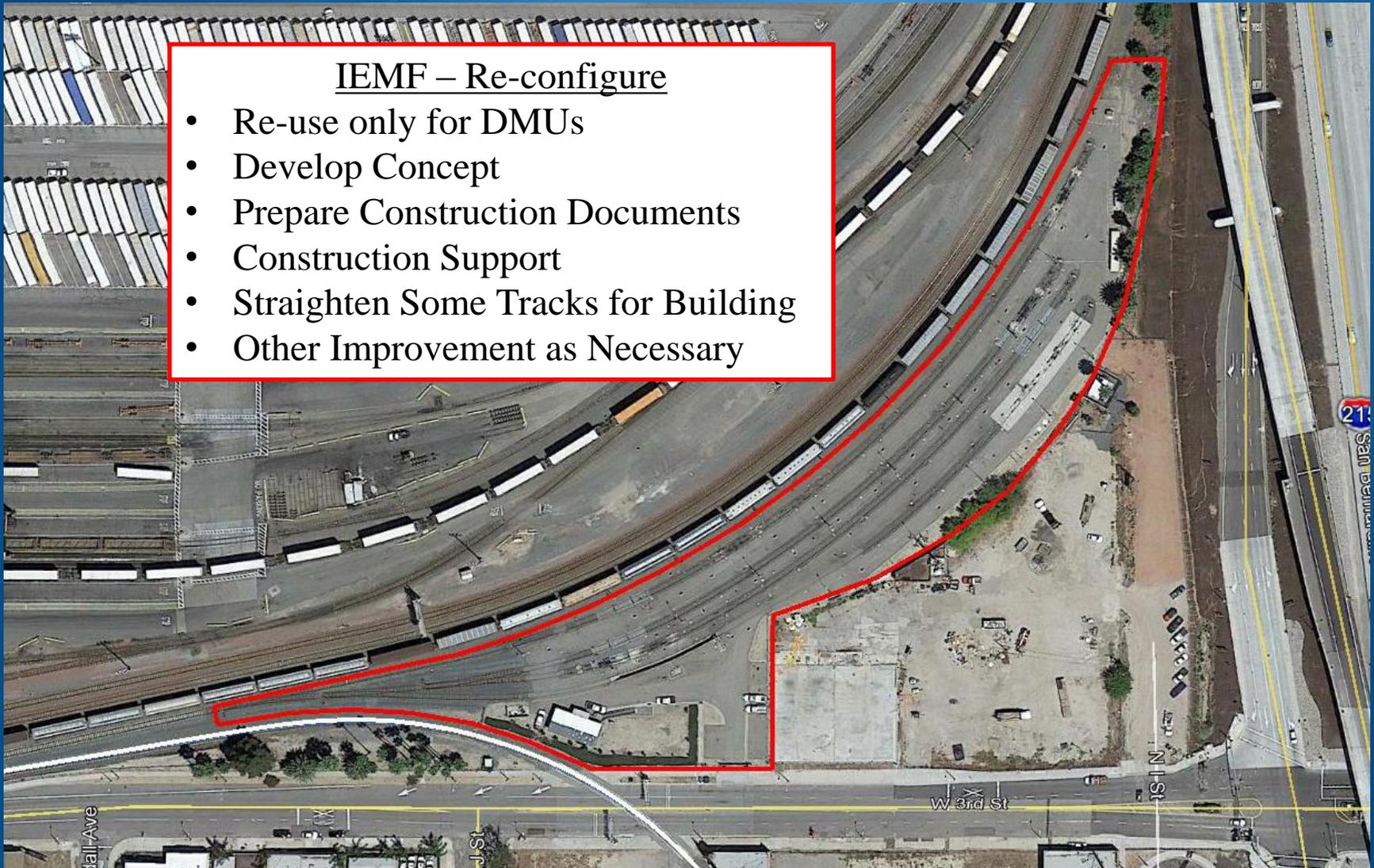


Existing Metrolink Inland
Empire Maintenance Facility
SANBAG Owned Property
Re-Use for RPRP

IEMF Re-configure

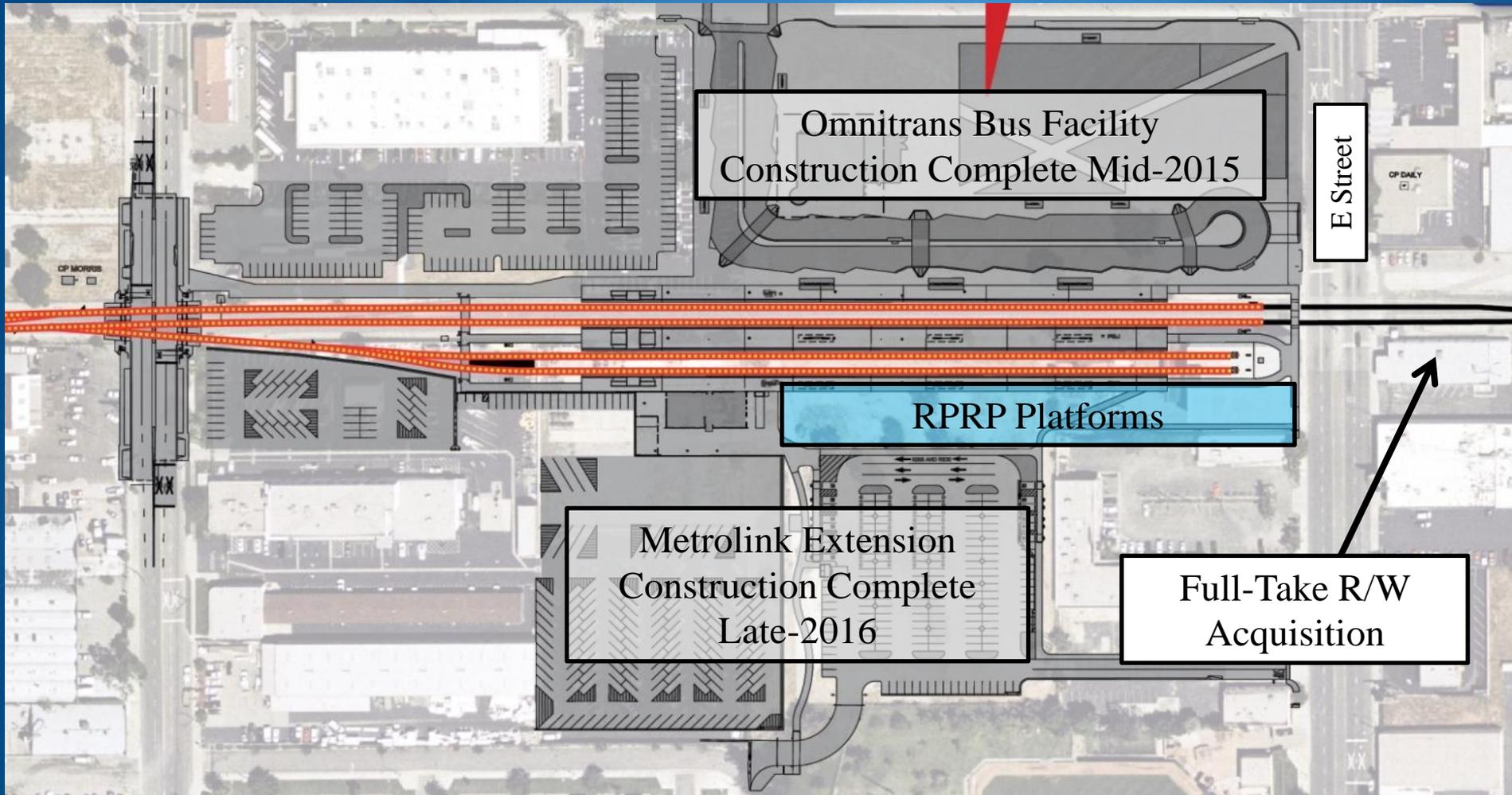
IEMF – Re-configure

- Re-use only for DMUs
- Develop Concept
- Prepare Construction Documents
- Construction Support
- Straighten Some Tracks for Building
- Other Improvement as Necessary

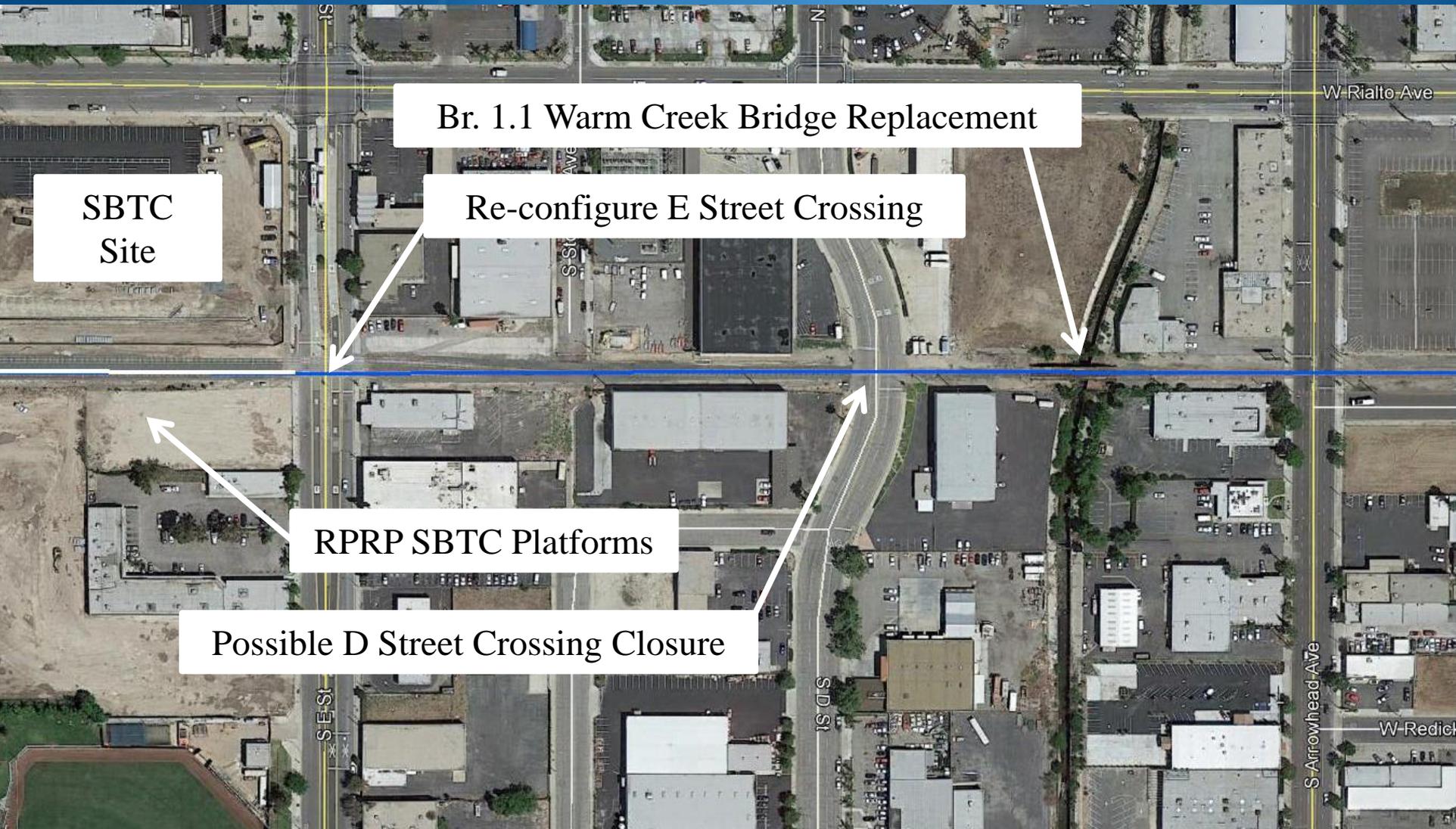




San Bernardino Transit Center



San Bernardino Transit Center Area

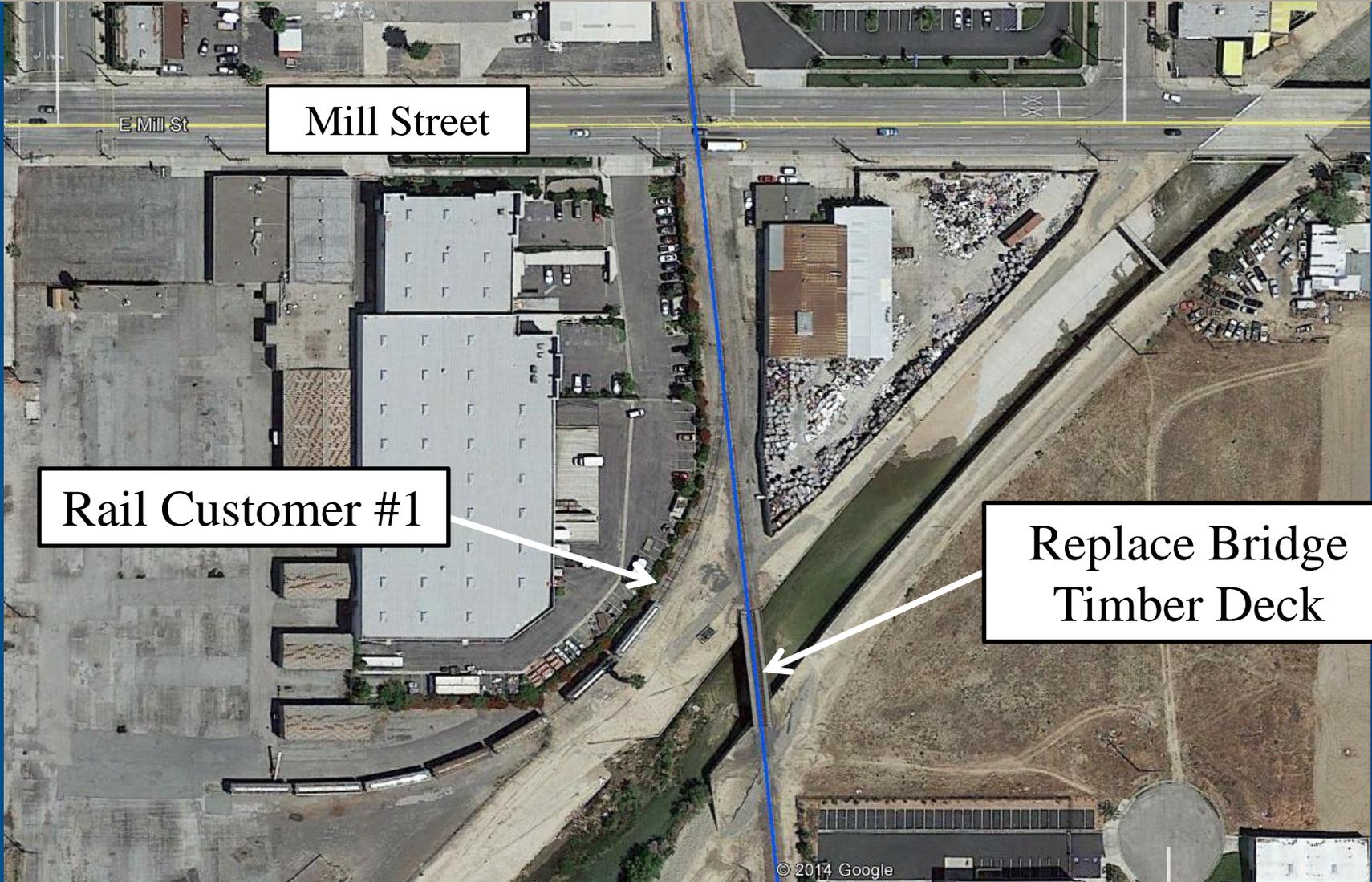




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Rail Customer #1



E Mill St

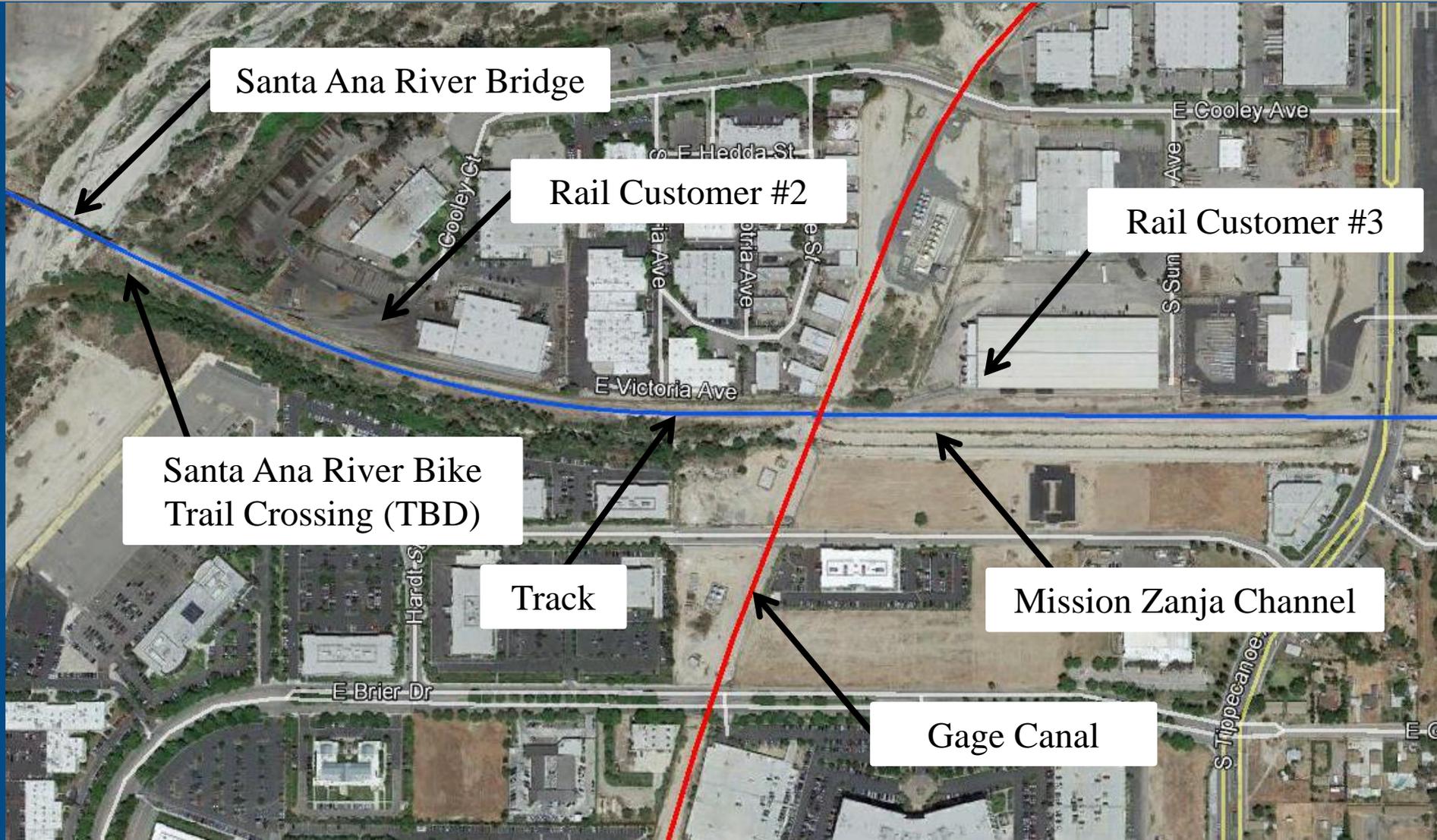
Mill Street

Rail Customer #1

Replace Bridge
Timber Deck



Gage Canal

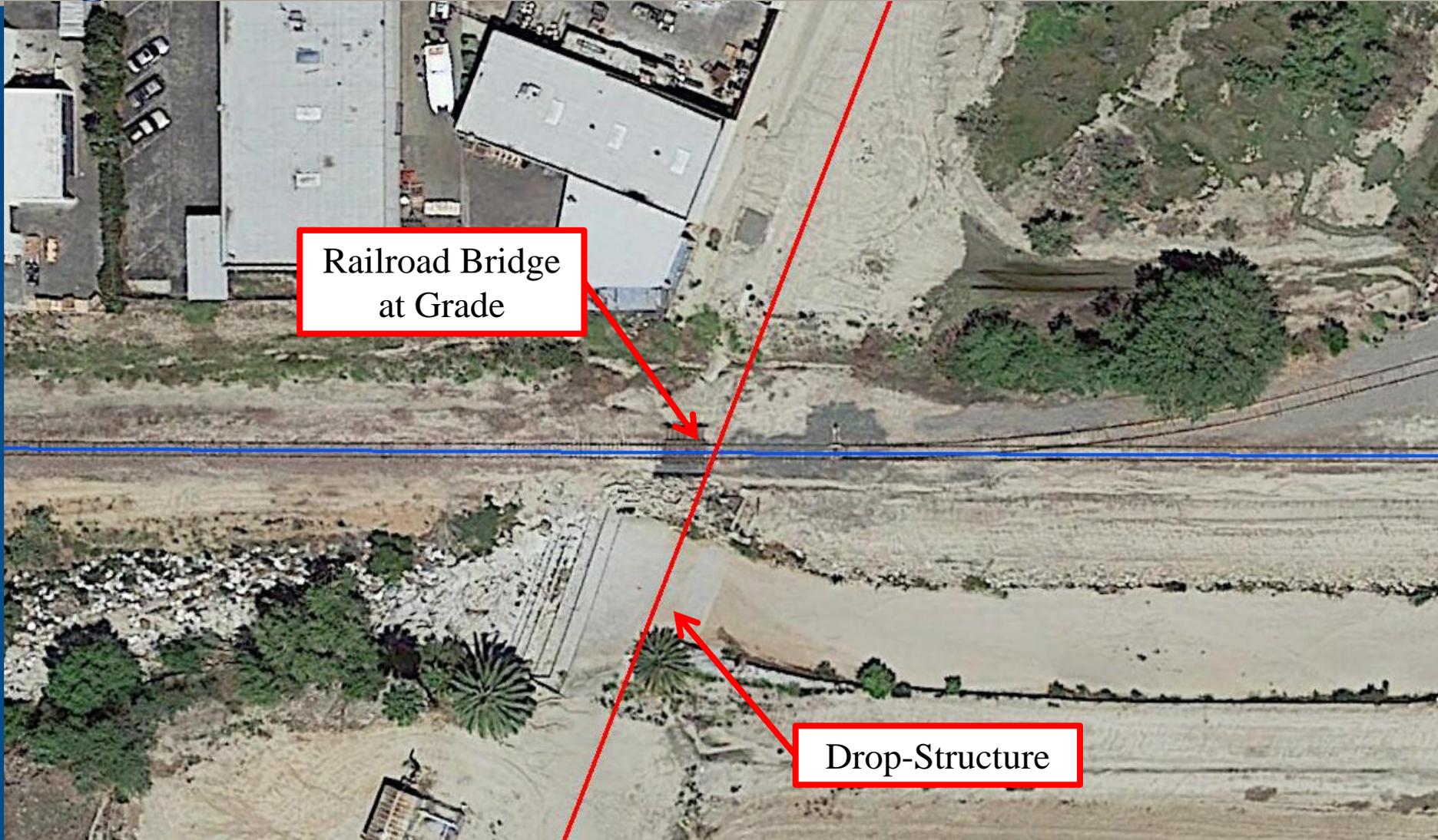




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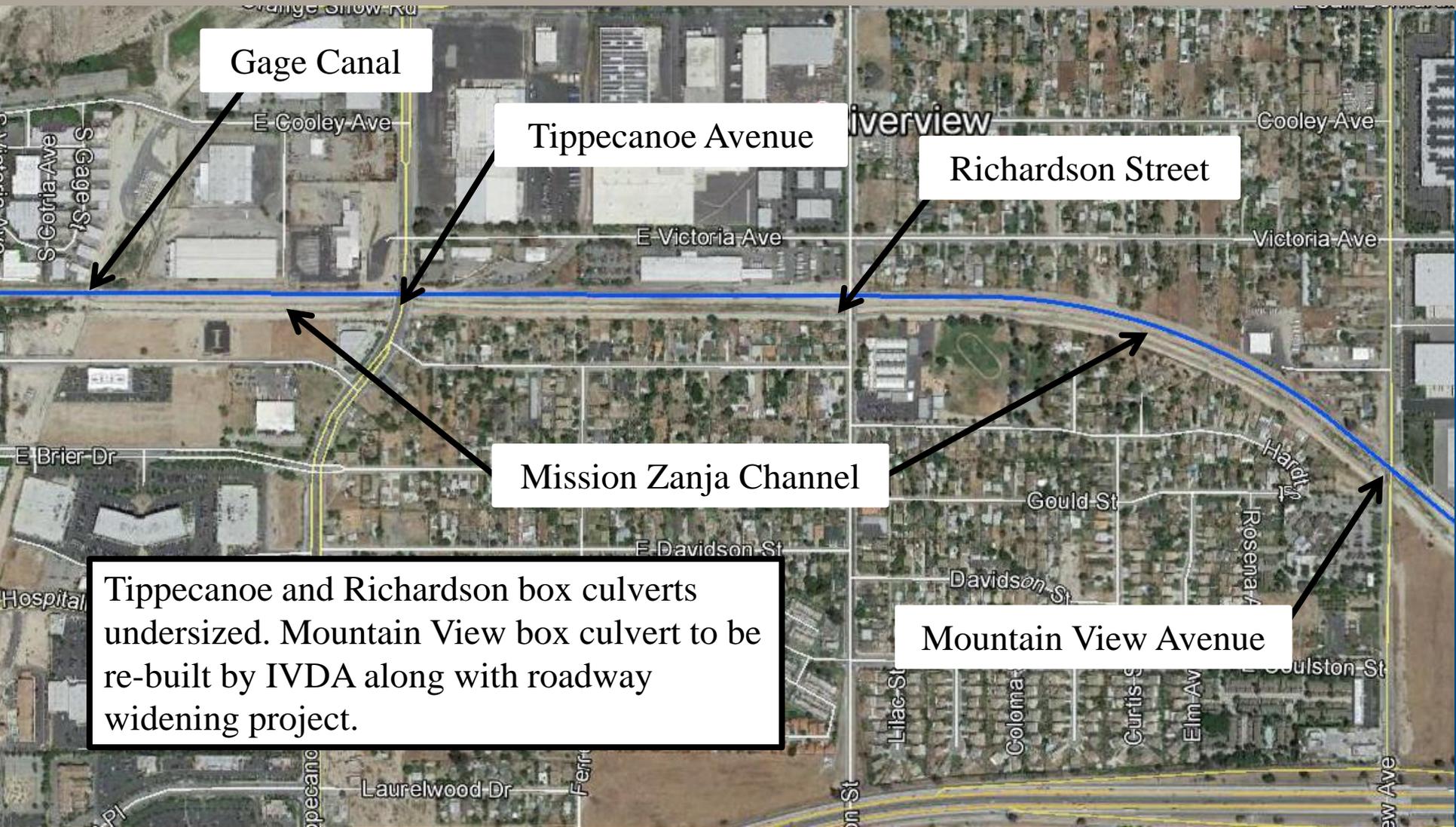
Gage Canal



Railroad Bridge
at Grade

Drop-Structure

Flood Constraints



Gage Canal

Tippecanoe Avenue

Richardson Street

Mission Zanja Channel

Mountain View Avenue

Tippecanoe and Richardson box culverts undersized. Mountain View box culvert to be re-built by IVDA along with roadway widening project.



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Alabama and Colton Crossing Re-configuration

Alabama Street

Colton Avenue

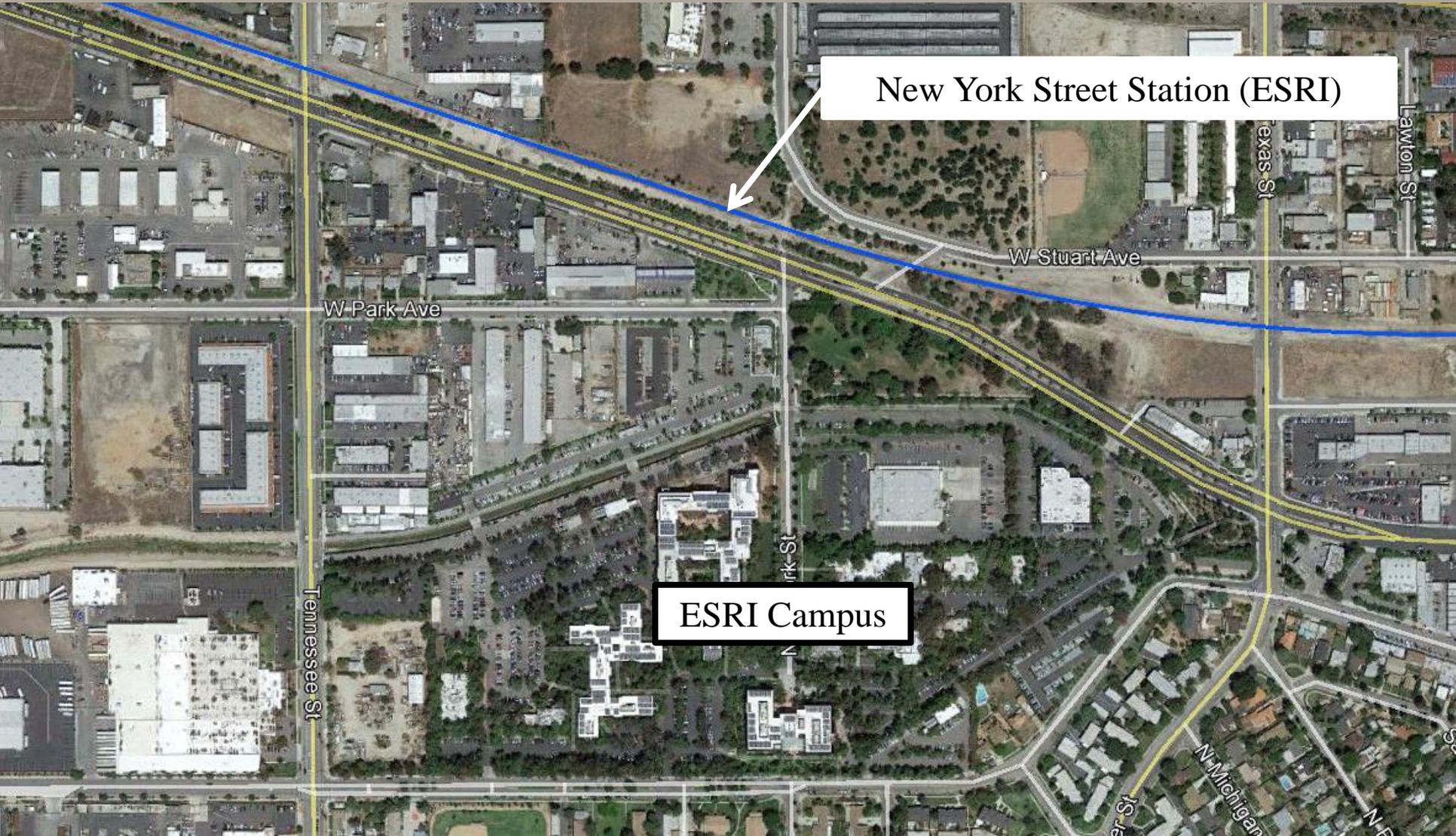
Alabama Street and Colton Avenue crossings currently being re-configured by separate project including roadway, track, and warnings devices.



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ESRI Station



New York Street Station (ESRI)

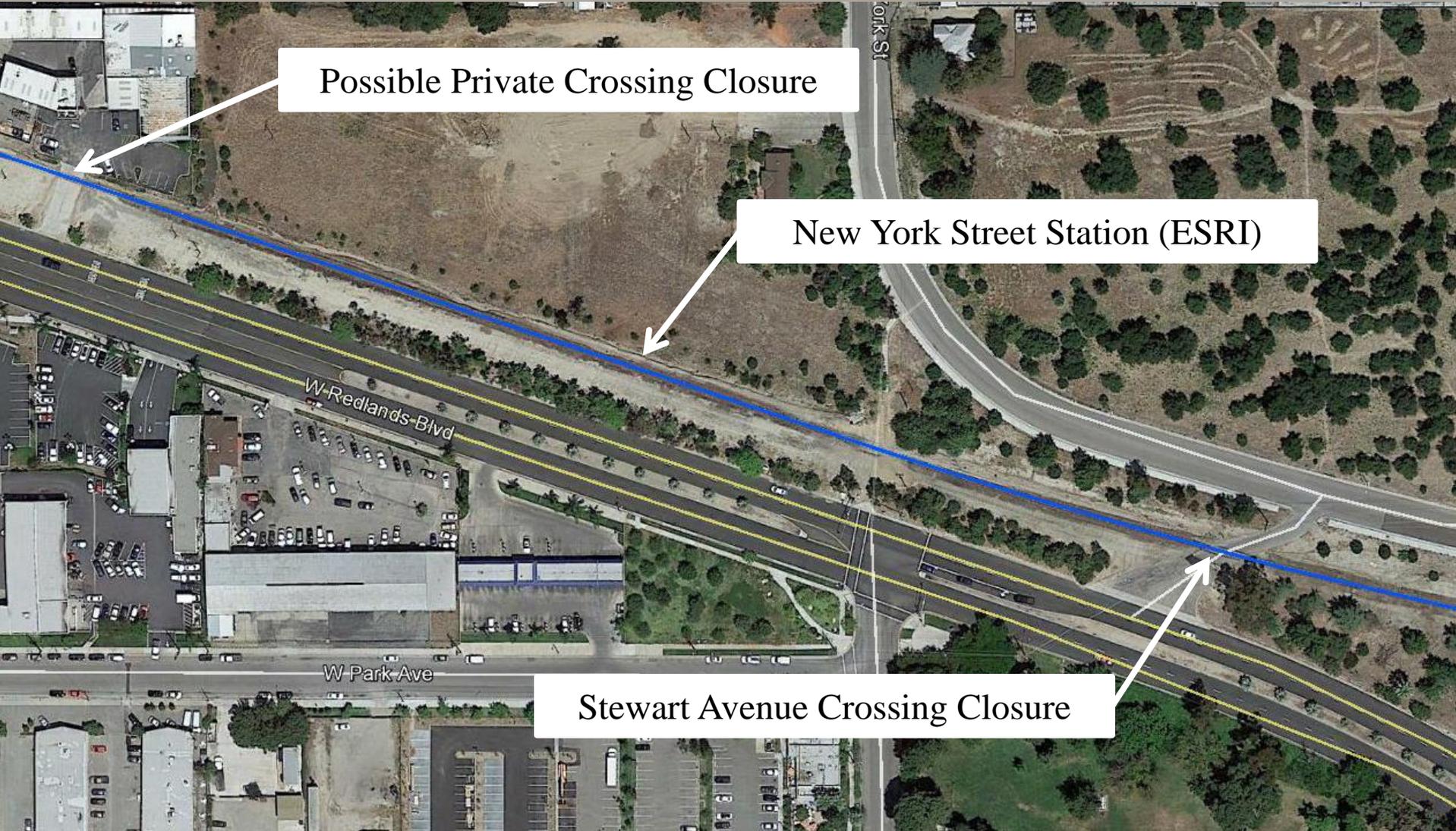
ESRI Campus



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ESRI Station



Possible Private Crossing Closure

New York Street Station (ESRI)

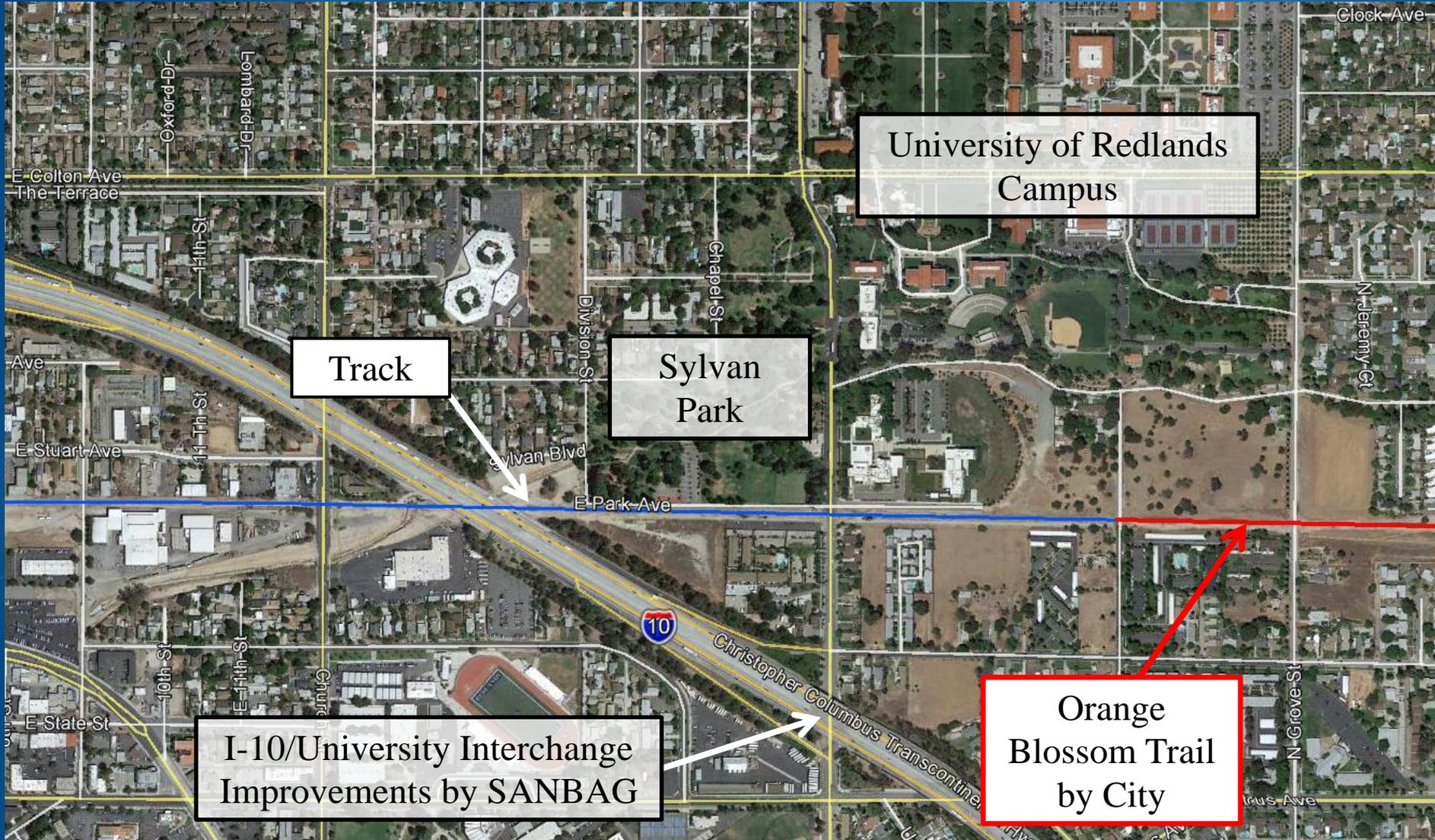
Stewart Avenue Crossing Closure



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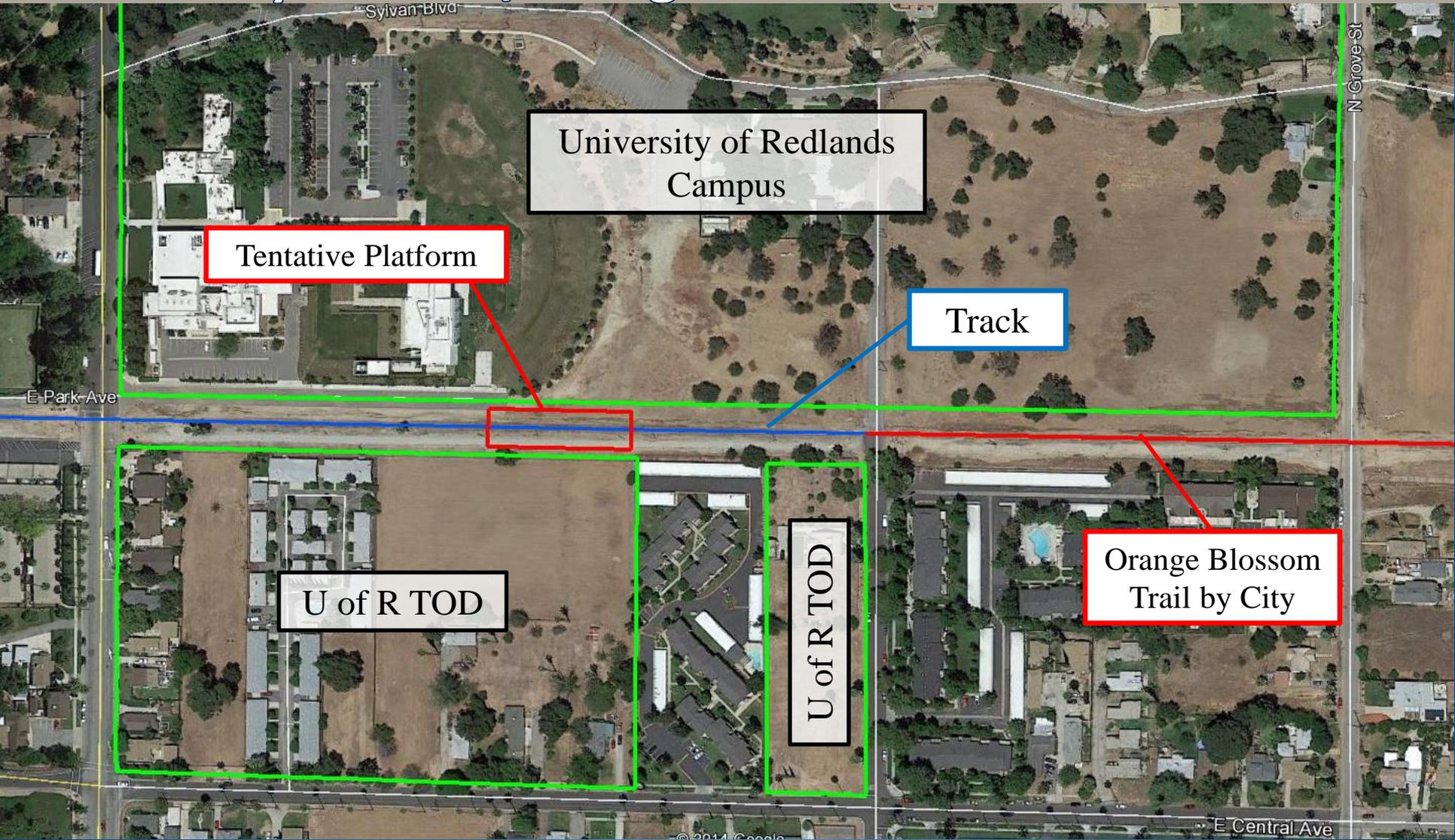
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University Area





University Station/Village



University of Redlands
Campus

Tentative Platform

Track

U of R TOD

U of R TOD

Orange Blossom
Trail by City

Consultant Opportunities

- Final Design RFP
 - February 4, 2015
- Program Management RFP
 - February 4, 2015
- Vehicle Procurement Consultant RFP
 - March/April 2015
- Maintenance Facility RFP
 - April/May 2015
- Construction Management RFP
 - Early 2016

General Consultant Contractual Requirements

- Design/Bid/Build
- Lump Sum Fee – Percent Complete/Task
- Scope of Work and Fee
 - Initial Scope and Fee for Final Design
 - Subsequent Scope and Fee for Construction Support
- No DBE
- Funding – Federal, State, and Local
 - Federal Acquisition Regulation
 - FTA Compliance including Buy America

General Consultant Contractual Requirements

- Railroad Protective Liability Insurance
 - Only When Required by SANBAG
- BNSF RWP Training (possible Metrolink)
- BNSF Flagging (possible Metrolink)

Key Issues

- Quiet Zones and New Crossing Agreements
- Possible Dual Use Platforms
 - Metrolink – Standard Platform
 - DMU (FRA Compliant) – Level Boarding
- Enhanced Station Design
 - ESRI
 - University of Redlands
- Understanding O&M
 - Dispatching, Track, and C&S Maintenance
 - Vehicle Operations
- Utilities/Third-Parties
- Track Out-of-Service: Tippecanoe to U of R

Proposal Tips

- This is not a LRT project. Show commuter rail experience.
- Do not exaggerate experience.
- Keep team's qualifications in the Quals Section
 - Do not discuss quals in resumes or related project experience section or project understanding/approach.
- Understand the project and what is important.
- Team members need to have worked on the related project experience.
- Identify issues and their potential solutions.

Proposal Nomenclature

- Program Management Consultant (PMC)
- Mainline Design Consultant (MDC)
- Vehicle Procurement Consultant (VPC)
- Maintenance Facility Design Consultant (MFDC)
- Construction Manager (CM)

Basic and Key Services by Contract

Program Management Consultant (PMC)

- Assist managing program.
- Assist with design over-sight.
- Assist with vehicle procurement.
- Maintain program schedule.
- Develop and manage Environmental Monitoring and Mitigation Plan
- Track program costs.
- Maintain risk management registry.
- Assist SANBAG with procurements.
- Coordinate environmental approvals.
- Development of safety and system safety plan.
- Development and manage start-up and testing.
- Assist with public outreach. SANBAG will procure separate outreach firm for project.
- Development of operating plan and RFP for operating services.
- Closeout

Basic and Key Services by Contract

Mainline Design Consultant (MDC)

- Design from preliminary to final and through construction support.
- Design track, grade crossings, bridges, railroad communications and signals, stations/platforms, drainage, utilities, security systems, public address systems, TVMs, passenger information systems.
- Provide all right-of-way acquisition services excluding legal services.
- Obtain environmental permits.
- Obtain GO 88s and GO 75s
- Geotechnical investigations.
- Preparation of Quiet Zone documentation.
- Surveying and mapping.
- AREMA design standards.

Basic and Key Services by Contract

Vehicle Procurement Consultant (VPC)

- Develop specifications for FRA compliant DMU or DMU with waivers.
- Develop specifications for rehabilitation of commuter rail passenger cars and locomotives.
- Coordinate specifications and designs for DMU maintenance facility at the IEMF.
- Assist with management of vehicle procurement and/or rehab.
- Assist with review of proposers.
- Assist with QA/QC during manufacturing.
- Assist with start-up and testing.

Basic and Key Services by Contract

Maintenance Facility Design Consultant (MFDC)

- Design from concept to final and through construction support.
- Design track, structures, buildings, MEP, FF&E, mechanical systems for maintenance, fire protection systems, drainage, utilities, and security systems.
- Obtain environmental permits.
- Obtain building department approvals necessary for permits.
- Geotechnical investigations.
- Surveying and mapping.
- AREMA design standards.

Basic and Key Services by Contract

Construction Management (CM)

- Typical services.
- Details will be provided in RFP early 2016.

Important Preclusions

Preclusions

1. PMC including subs are precluded from design services.
2. All design consultants, primes and subs, are precluded from PMC and CM services.
3. PMC including subs may prime or sub CM services.

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Questions?

