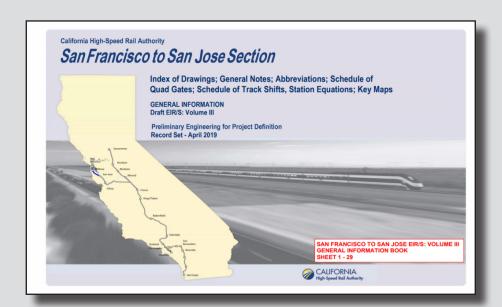
Volume III User Guide

Volume III of the Environmental Impact Report/Environmental Impact Statement (EIR/EIS) provides engineering drawings, figures, and tables for Alternatives A and B for the San Francisco to San Jose Project Section. It presents preliminary design information showing alignment, primary features, anticipated right-of-way requirements and temporary construction easement details in support of the proposed high-speed rail project.

Volume III is a part of the EIR/EIS document: it delineates the extents of the work proposed in the EIR/EIS. It also provides a useful tool for stakeholders who want to understand potential property, visual, and circulation impacts of the two project alternatives.



Organization of Volume III

Volume III has been split into several books for readability and navigation. Each book begins with an index of drawings included in that book, and an associated key map. The General Information Book has the full index of drawings while each Project Alternative Book only includes the index for that book.

General Information Book

The Volume III General Information Book provides the index of drawings, the key maps, and several general elements including general notes, abbreviations, systems, and quad gate applications (at-grade crossings where traffic lanes in both directions are protected by safety gates). It provides information that is common to the two alternatives.

Project Alternative Books

In addition to the General Information Book, detailed Volume III books are available for both project alternatives.

Contents of Project Alternative Books

The following information is included in the Project Alternative Books:

- Composite Plan, Profile, and Cross Sections: Engineering drawings of the corridor and detailed plans that show the rail design and effects on adjacent rights-of-way and properties.
- **Stations:** Illustrations of the planned stations, showing tracks, station platforms, parking lots, transit facilities, and station design elements. Includes tables describing each station program.
- Structures: Plan and section drawings of underpasses, overpasses, viaducts, and tunnels.
- Roadway: Plan drawings showing where streets and roads are closed, added, redirected, or extended.
- Light Maintenance Facility: Drawings that illustrate the design of the planned light maintenance facility (LMF).
- Track Guideway and Horizontal Alignment Data Table: Design information about track guideway curves and geometry, train design speeds, superelevations, and track stationing.

List of Project Alternative Books

Each set of Project Alternative Books is labeled based on the project alternative number, as listed below:

Alternative A Books

4th & King, San Francisco, to W. Alma Ave, San Jose

- A1 Composite Plans, Profile, and Cross Sections
- A2 Composite Plans, Profile, and Cross Sections
- A3 Stations
- A4 Structures, Roadway, Light Maintenance Facility, Alignment Data Table

Alternative B Books

4th & King, San Francisco, to Scott Boulevard, Santa Clara

- B1 Composite Plan, Profile, and Cross Sections
- B2 Composite Plan, Profile, and Cross Sections
- B3 Stations, Structure and Roadway
- B4 Light Maintenance Facility, Track Guideway and Alignment Data Table

Scott Boulevard, Santa Clara, to W. Alma Ave, San Jose, Viaduct to I-880 Option

B5 Composite Plan, Stations, Structures, Roadway, Alignment Data Table

Scott Boulevard, Santa Clara, to W. Alma Ave, San Jose, Viaduct to Scott Boulevard Option

• B6 Composite Plan, Stations, Structures, Roadway, Alignment Data Table

How to Find a Property in Volume III

You can use Volume III to identify impacts that project alternatives may have on specific areas. This information is contained in the drawings in Volume III books A1 and A2 for Alternative A and B1, B2, B5, and B6 for Alternative B. The composite plans include technical drawings to illustrate high-speed rail's design and its footprint (the footprint refers to the land used for the rail line, station construction, electric equipment, facilities, access roads, and other rail amenities).

The Key Maps

The Key Maps orient users to identify specific drawings along the corridor. Key Maps for both project alternatives are shown in the Volume III General Information Book on the sheets immediately following the Index.

To find a property adjacent to a high-speed rail alignment alternative:

1 Check the Key Maps

The Key Maps illustrate the drawing numbers for all of the detailed engineering drawings. They are shown on three separate sheets and depict the full project section from north to south.

2 Look for the City and Cross Streets

On the Key Maps, find the city name and cross streets or other landmarks to help you locate the part of the map where you want to take a closer look.

Find the Drawing Number

Each narrow rectangle represents the boundary of an engineering drawing and is labeled with a unique drawing number.

For example, if you want to look near Ralston Avenue in Belmont, you'll find it is shown on the map in the narrow rectangle labeled TT-D0113. TT-D0113 is the technical drawing for this area.

Locate the Book Number

The Key Map shows where you'll find the engineering drawing you seek.

If you want to see drawing TT-D0113, you'll find it in Book A1.

Go to the Engineering Drawing

Find each detailed engineering drawing on its own page.

Open Book A1 and turn to drawing TT-D0113. This detailed drawing shows the entire section between 37th Avenue in San Mateo and the northernmost portion of San Carlos.

SAN BRUNO TO SAN MATEO

SAN MATEO TO PALO ALTO

SFO / MILLBRAE CALTRAIN STATION

BURLINGAME CALTRAIN STATION

CALIFORNIA DR / BROADWAY CALTRAIN STATION

CALTRAIN HAYWARD PARK STATION / HWY 92

CALTRAIN SAN MATEO STATION / N. RAILROAD AVE

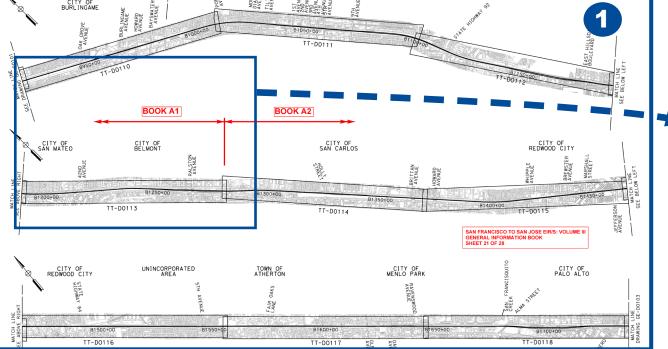
TT-D0108

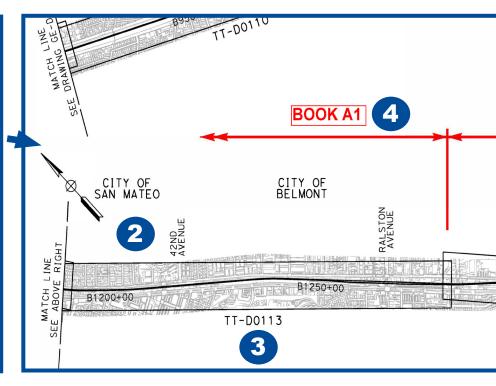
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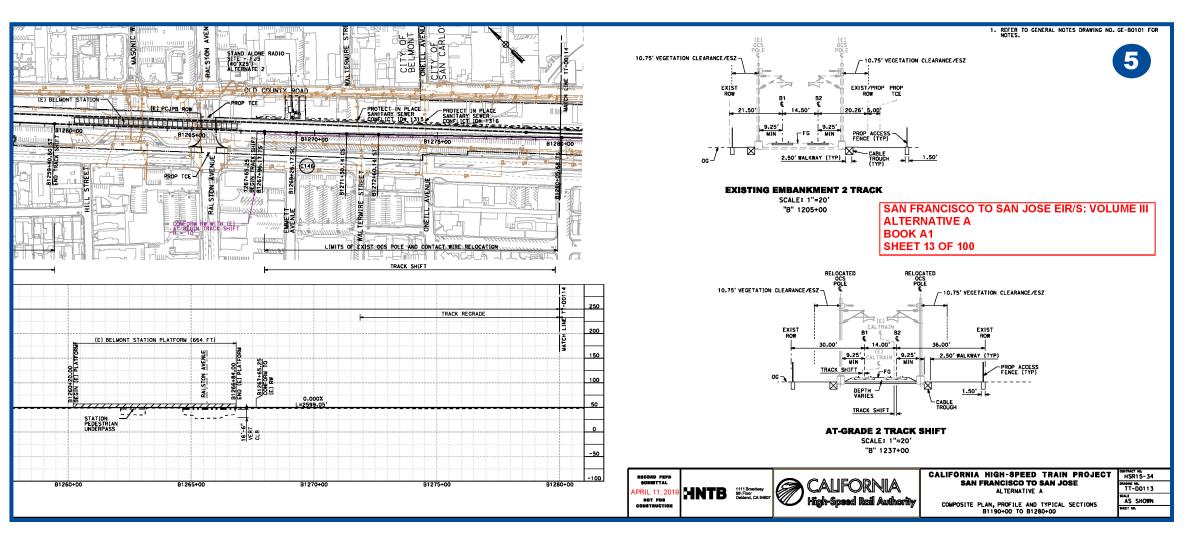
TT-D0110

TT-D0111

TT-D0112







COMPOSITE PLAN. PROFILE AND TYPICAL SECTIONS

COMPOSITE PLAN, PROFILE AND TYPICAL SECTIONS

The Index

BOOK A1

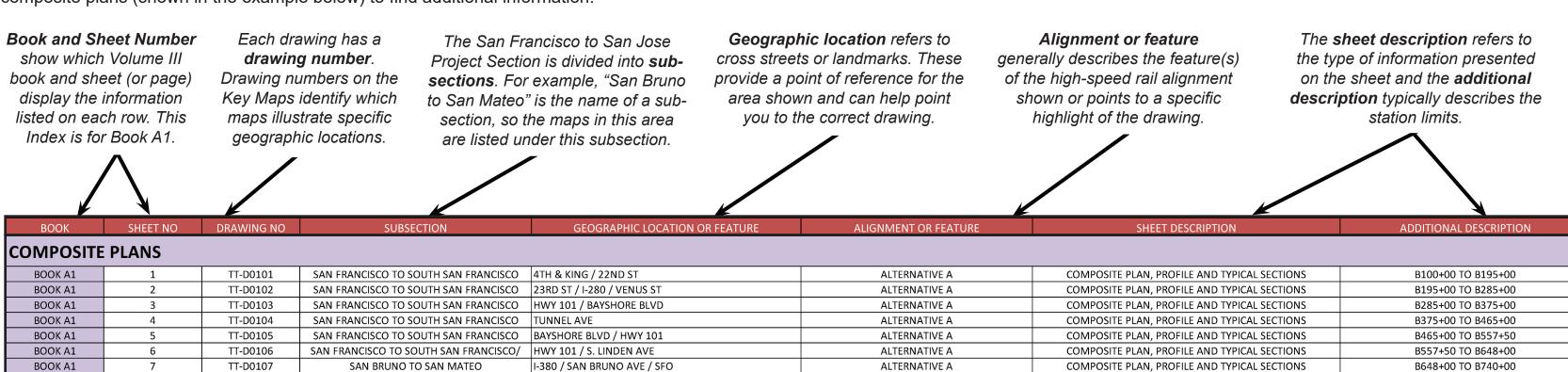
BOOK A1

BOOK A1

BOOK A1

BOOK A1

Each book begins with an index of drawings included in that book, and an associated key map. The General Information book includes a complete index. The complete index of drawings lists all of the pages (called "sheets") in numerical order. The different columns show the boundary or information available on each page. After finding a property on a Key Map, you can check the index for the composite plans (shown in the example below) to find additional information.



ALTERNATIVE A

ALTERNATIVE A

ALTERNATIVE A

ALTERNATIVE A

ALTERNATIVE A



Call us: 1-800-435-8670

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Viewing Volume III as a PDF online? Downloaded a PDF from the High-Speed Rail Authority website?



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B1010+00 TO B1100+00

B1100+00 TO B1190+00

You can use built-in PDF tools like bookmarks to

navigate the document and the find function to locate places.

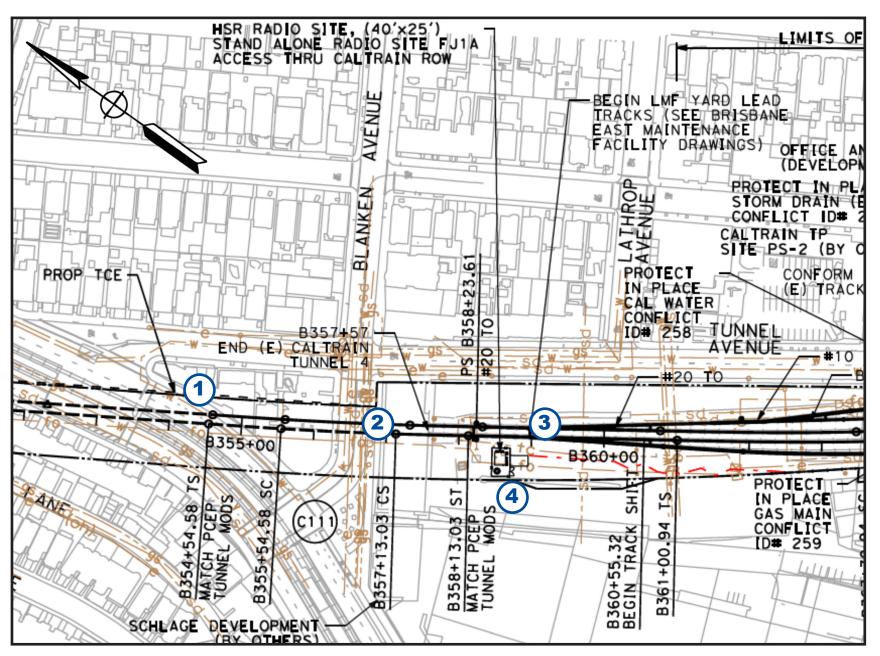
For example, use the find function (Ctrl+F on a PC; %+F on a Mac) to search for a cross street. All instances of the street label will show up, including those in maps and engineering drawings.

Understanding the Information in Volume III

Plans

The plans in Volume III are detailed drawings of the project corridor that show the location of proposed high-speed rail infrastructure, existing and proposed rights-of-way, road alignments, utility lines, planned developments, and other features. Four enlarged examples from the plans are annotated below to highlight the different features that are labeled on these drawings.

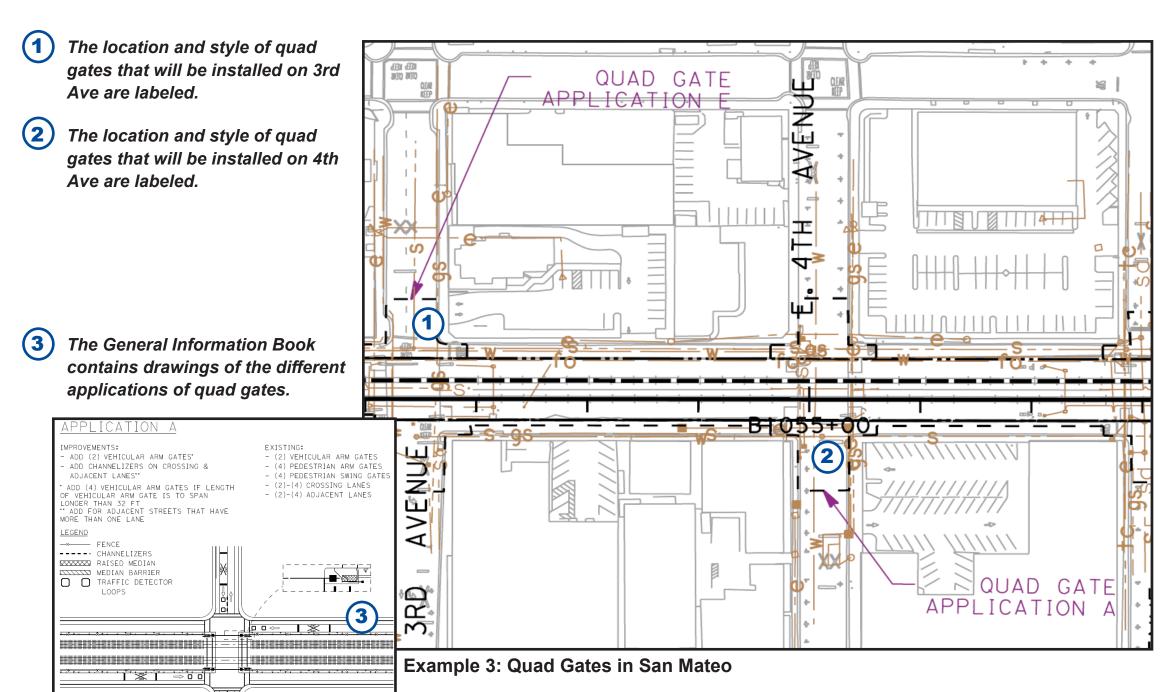
- 1 The dashed line labeled "PROP TCE" indicates a proposed temporary construction easement.
- 2 Dashed lines indicate existing tracks. Solid lines indicate new or relocated track.
- In this location, lead tracks for trains traveling to and from the Brisbane light maintenance facility (LMF) intersect with the trunk line (or main line).
- 4 The proposed locations of facilities such as stand-alone radio sites are shown on the plans. In this example, a standalone radio site is shown south of the tunnel.



Example 1: South San Francisco near Blanken Avenue

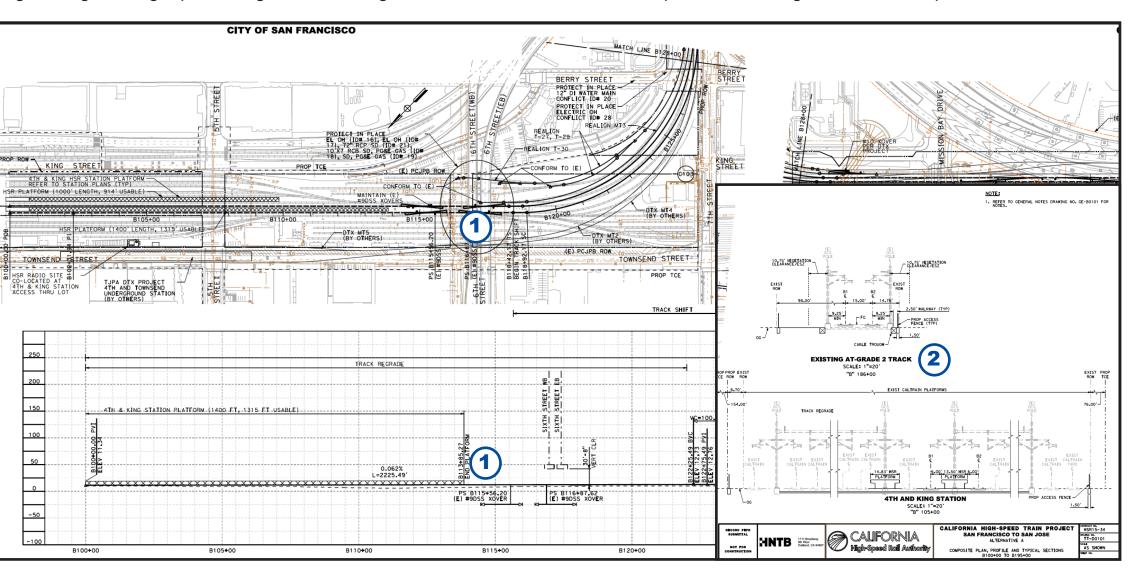
PROTECT IN PLACE PROTECT IN PLACE (1) Brown lines mark utility fea-TELECOM JOINT TREE CONFLICT ID# 440 tures such as gas, water, sewer, CONFLICT ID# 441 and telecommunications lines. A series of small slashes (///) MILLBRAE CALTRAIN -PROTECT IN PLACE shows where specific utility ROTECT IN PLACE STATION PLATFORMS features will be removed and (16' X 700') 0 CONFLICT ID# 433 DNFLICT ID# 430 relocated. RELOCATE PULLBOX -HARLES STATES AND THE (2) The rectangle with small cross-hatching represents the HHHHHHHH Caltrain platform, while the high-speed rail train platform 1111 ALL WAR THE HALL HALL has large crosshatching. B818+32.61 The dashed line labeled "PROP BEG PLATFORM ROW" indicates the boundary (8) 54" RCP RELOCATED P of the proposed high-speed rail right-of-way. STORM DRAINS CONFLICT RELOCATE STORM DRAIN (4) Magenta lines show proposed D# 436 roadways and roadway realign-PROTECT IN PLACE — DOUBLE 11 X4 CBC — STORM DRAIN CONFLICT ID# 435 B812 RELOCATE DRAINAGE FACILITY ments or restriping. EXTEND-(2) SANITARY SEWER

Example 2: North Side of Millbrae-SFO High-Speed Rail Station



Cross Sections and Vertical Profiles

In addition to the plan view of the rail corridor, Volume III composite plan sheets include cross sections and a vertical profile of the alignment Cross sections are shown on each sheet to represent the track configuration at a specific location on that drawing. A vertical profile is an engineering drawing representing what the design would look like from the side, or profile, of the alignment. An example is shown below.



Example 4: 4th and King Station in San Francisco

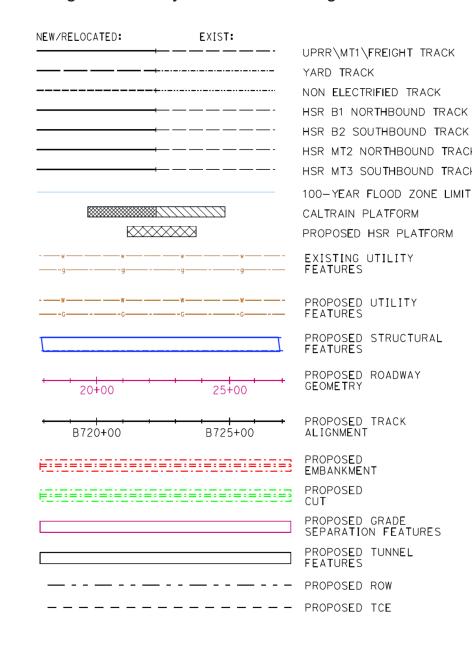
The profile corresponds to the plan above. The limits of the platform are shown in both the plan and profile views.

2 Stationing is provided to identify the limits that the cross section represents.

Colors/Legend

A legend for the composite plans can be found on sheet 15 of the General Information Book. The four previous examples highlight the most common markings that are found on the composite plans, but the legend may be referenced to help understand the information depicted in the plans.

- "MT" means main track and "B" indicates alignment stationing of
- the southbound passenger track with tick marks at 100' intervals.
 A 100-year flood event has a 1 in 100 (1%) chance of happening
- in any given year.
 Caltrain station platforms and high-speed rail station platforms are distinguished by different styles of hatching.
- Utilities are marked with brown lines.
- Structural features, marked with blue lines, generally refer to viaducts and other bridges.
- Realigned roadways are drawn in magenta.



Scale

The drawings in Volume III are scaled, meaning the measurements in these drawings are in proportion to the actual locations they represent. For example, one inch of a drawing might represent 600 feet of the real alignment. All drawings show their scale. Note that some drawings have different horizontal and vertical scales, and these are shown on the drawing.

