VST ENGINEERING

PROJECT: Link 21 Program

PROFESSIONAL SERVICES: 2021 - Present

OWNER: Bay Area Rapid Transit (BART) & Capitol Corridor Joint Powers Authority (CCJPA)

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Services

SERVICES PROVIDED

- Rail alignment design
- 3D Modeling
- Estimate planning and conceptual level costs

SERVICES PROVIDED

- Utility Stakeholder coordination
- Utility identification
- Composite utility base map development

Brief Description of Project Relevance to this Contract

Link21 is a transportation program sponsored by the San Francisco Bay Area Rapid Transit District (BART) and the Capitol Corridor Joint Powers Authority (CCJPA). The goal is to transform the passenger rail network serving the 21-county Northern California Megaregion (Megaregion), which includes the greater San Francisco Bay Area, theMonterey Bay area, the Sacramento area, and the Northern San Joaquin Valley. Link21 is a program of projects that will build on the existing BART and Regional Rail systems and include a new passenger rail crossing project (Crossing Project) between Oakland and San Francisco that will serve the busiest and most congested Corridor in the Bay Area. The Crossing Project will increase capacity and bring new passenger rail connections and services to the Megaregion. A joint BART/CCJPA team has been established, underscoring the partnership of the two agencies and their shared commitment to Link21.

VST Engineering is responsible for the conceptual rail alignment design for the second Transbay Crossing, West San Francisco extension and the I-980 Rail Corridor Concept Study. Through an iterative process that incorporates input from other concurrent program activities regarding the locations and configurations of key infrastructure elements (e.g., tunnels, station platforms, portals, track crossovers, maintenance facilities), VST is responsible for identifying key constraints and control points in the complex corridors by developing conceptual horizontal and vertical alignments and cross sections. These Corridors shall serve as the building blocks for development of the Program Concepts and will require large investments in underground infrastructure to serve desired markets while minimizing negative impacts to affected communities.

VST also oversees the identification and coordination of major utility considerations along each corridor. VST collects and researches utility information from available topographic maps, geospatial data, and utility owners. VST is responsible for the development of composite utility base maps, identifying existing and proposed major utilities (e.g., water mains, sewer mains, auxiliary water supply storage (AWSS), high pressure water and gas lines, power transmission lines, fiber optic banks) within and immediately adjacent to the underground portions of the alignment, underground station locations, and portal locations.

Project Cost: $130 M