

APPROACH

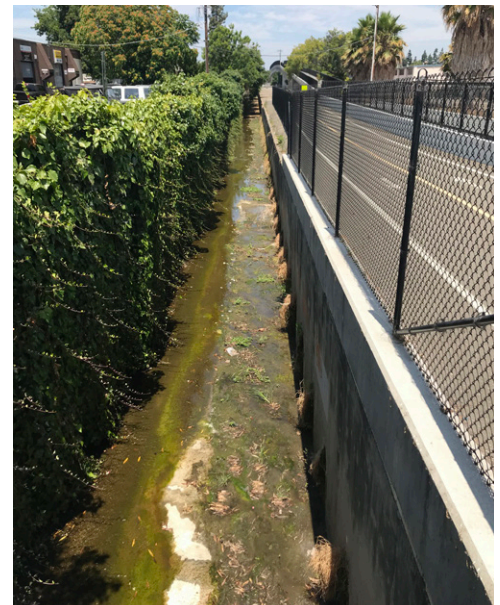
The Permanente Creek Trail is an important commute and recreational resource for the Mountain View community. While the completion of the Highway 101 overcrossing greatly improves access, there is a large trail segment with limited access to the surrounding neighborhoods. The connection to Colony Street improves connectivity within the community. Having developed numerous trail and bridge projects throughout the Bay Area, the following are key elements of our scope of services.

CEQA Compliance and Agency Permitting. The bridge crossing may require approvals from State and Federal regulatory agencies for temporary and permanent impacts to waters of the United States/State of California. On a recently completed bridge crossing of a concrete lined ditch at the Freitas Parkway and Las Gallinas Avenue intersection in San Rafael, our team coordinated early on with the Corps of Engineers, Regional Water Quality Control Board, and California Department of Fish and Game to validate the creek delineation and develop an understanding of the permits that may be required to work over the channel. By designing and constructing the new bridge deck outside the creek limits, our team was able to avoid resource agency permits such as:

- U.S. Army Corps of Engineers- Federal Clean Water Act Section 404 permit
- Regional Water Quality Control Board – CWA Section 401 Water Quality Certification
- Department of Fish and Game –Section 1600 Streambed Alteration Agreement

Understanding and building consensus is a critical role in the preliminary design process and will be documented in a Basis of Design report and refined plan. With a refined plan, LSA will work to secure the required environmental clearance documents for CEQA compliance.

Finally, the project will require an encroachment permit from the Santa Clara Valley Water District. Our team has secured numerous utility line crossings of SCVWD facilities and will engage the District upon commencing the design process. One key element will include developing a bridge foundation design that does not impact the walls of the concrete channel.



Strong Communications and Communications and Outreach Balances

Competing Interests. Planning transportation improvements requires outreach to stakeholders including residents, business owners, and public utilities to understand their unique concerns. In addition, it will require focused outreach to those residents and businesses directly affected by a project. While it is likely not possible to meet everyone's needs completely, our goal is to listen to concerns and develop a cost-effective design which achieves consensus. One element that may require specific attention for residents of Colony Street is security concerns related to improved access. Based on our team's past practice, we understand this will include many face-to-face meetings with property owners in the field. We understand the importance of communication and we will deliver what the project needs to achieve success.

Parisi CSW summarizes our scope of services to assist the City in preparation of environmental clearance documents, plans and securing approvals to construct the Colony Street Connector, and performing the necessary outreach to utility agencies and public. Our scope is flexible and we intend to adapt to the needs of the City and stakeholders as the project develops.

TASK 1: EXISTING CONDITIONS ASSESSMENT AND PRELIMINARY ENGINEERING

Objective: During this initial phase, our team will collect existing conditions data within the project area to refine the trail's alignment and select the type of bridge seeking to reduce environmental impact, cost, and to protect the integrity of the concrete channel.

1.1 Existing Conditions Mapping. Parisi CSW will complete research and field data collection to prepare design level base mapping for the project.

- A. **Set Control:** We will establish horizontal control using Global Positioning (GPS) equipment based on NAD83. We will establish vertical control based on NAVD 88.
- B. **Utility Information:** Parisi CSW will collect utility information located within and near the project area which may be affected during construction.
- C. **Field Survey:** A Parisi CSW field crew will acquire topographic data in cross sections along the trail's route. This will include the concrete lined ditch.
- D. **Boundary:** We will prepare a boundary survey around the project area to find localized control. A Record of Survey map was filed in the project area and we assume for purposes of this proposal that sufficient monuments, as depicted on the Record of Survey, remain in their undisturbed position which will enable us to establish the property boundary and accordingly the SCVWD easement.
- E. **Lastly,** Parisi CSW will research records and obtain sufficient field survey ties to establish the right of way for Colony Street and the boundaries of the parcel upon which the existing trail is situate.
- F. **Mapping:** We will prepare an existing conditions map illustrating



elevations and contours at 1-foot intervals. We will provide the data in AutoCAD Civil 3D 2015 and Adobe Acrobat formats.

1.2 Utility Locating: Parisi CSW will coordinate with a utility locating contractor to perform up to eight (8) hours of potholing using air-vacuum excavation at predetermined locations to document vertical position of existing utilities and retaining wall footing. Data collected as a result of potholing activities will be presented in the topographic base map. Pothole locations (in the field) will be marked with wooden lath and ribbon marked with the pothole number, utility size and depth or MAG nail with pertinent utility data annotated on the ground surface. Once the utility data has been collected the pothole will be restored using native backfill and the appropriate surface restoration materials.



1.3 Tree Survey: LSA's certified arborist will conduct a field survey of the trees within and adjacent to the proposed trail alignment that might be affected by project construction. The field survey will consist of the following:

- Identify each tree species.
- Determine which trees are subject to the City of Mountain View's tree preservation ordinance.
- Map each tree on a project base map.
- Measure the trunk diameter of each tree at a point 54 inches above the natural grade (DBH). If an individual tree has multiple trunks, the diameter would be measured just below the first major trunk fork, consistent with the Chapter 32 of the City of Mountain View Municipal Code.
- Evaluate the general condition of each tree.

LSA will prepare a letter report with a tree table and associated figure or CAD file showing the approximate location of each tree. The tree table will list the on-site trees by number, species, DBH, condition, and tree-ordinance status. This tree report will provide a summary of our findings. This proposal assumes one day of field work will be sufficient to survey the trees within the project alignment. Additional trees can be surveyed on a time and materials basis under a separate contract.



1.4 Geotechnical Analysis: Cornerstone Earth Group will complete a site geotechnical investigation including completing the following:

Pre-Field Activities: We will coordinate with Santa Clara Valley Water District and City of Mountain View to obtain the required encroachment permits necessary to access the trail and public right-of-way areas. Explorations will be backfilled with cement grout in accordance with Santa Clara Valley Water District guidelines.

Utility Clearance: We will mark our boring locations at least two working days prior to beginning our explorations as required by law, and notify the regional utility notification center – Underground Service Alert (USA), and you, so that public and private utilities can be identified and marked at the ground surface.

Cone Penetration Tests (CPTs): The bridge site is located in an area mapped as having a high liquefaction hazard potential. Therefore, to explore the subsurface conditions at each bridge abutment, we will



perform two Cone Penetration Tests (CPTs) using track-mounted CPT equipment. Our CPTs will extend to depths of approximately 45 feet. We will collect soil samples at discreet depths from our CPTs for visual classification, laboratory testing, and for correlation with CPT exploration data.

The final location of all explorations may be modified depending on the results of the initial field survey and based on input from the City of Mountain View and the design team. Site restoration is limited to general clean-up and patching the ground surface with concrete.

Laboratory Testing:

To evaluate the index and engineering properties of site soils, the following laboratory tests are anticipated:

- In-situ Moisture/Density tests, American Society for Testing and Materials (ASTM) D2937 Test Procedure
- Grain Size Distribution tests, ASTM D1140 and D422
- Atterberg Limit tests, ASTM D4318
- Soil Corrosion Testing, including pH, Chloride, Sulfate, and Resistivity (ASTM and Caltrans test methods)

Engineering Analysis and Report Preparation:

The engineering analysis phase of work will focus on developing geotechnical design parameters for the proposed bridge foundations and analysis of liquefaction during seismic shaking. The data obtained from the field investigation and the laboratory testing program will be utilized in the engineering analysis.

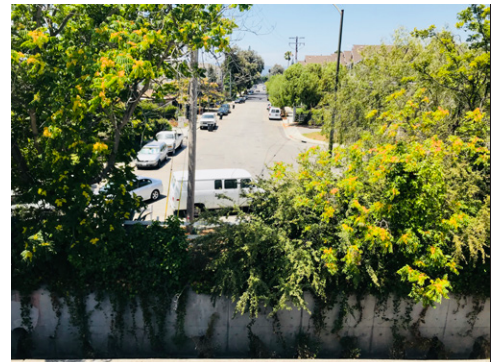
Following the completion of the engineering analysis, a report will be prepared with our conclusions and recommendations.

- 1.5 Basis of Design and 35% Plans:** Our team will prepare a Basis of Design report summarizing results of the preliminary investigation phase. Additionally, the report will provide a brief discussion of design alternatives and the applicable opinion of probable construction costs indicated in the preliminary design plans. We will provide the following:

- A. Trail layout and cross section plan
- B. Bridge alignment and conceptual foundation plan
- C. Photographs of prefabricated bridge types

- 1.6 Outreach.** Our team will complete outreach to community members and stakeholders to coordinate the design effort. This process will commence with the completion of the 35% design and include the following:

- A. SCVWD:** Parisi CSW will coordinate with the water district to determine if the proposed bridge crossing will affect operation and maintenance of their existing facilities within their easement.
- B. United States Department of Veterans Affairs:** Parisi CSW will meet with local US Veteran Affairs representatives for access to conduct geotechnical investigation/borings and obtain necessary easement for construction of the proposed improvements.
- C. Public Outreach:** Parisi CSW will prepare a public outreach campaign



for the project, which includes the proposed trail connection as well as architectural exhibits of the proposed bridge. As applicable, Parisi CSW will supply monthly news updates regarding the progress of construction for use on the City's website. We will setup an email address that forwards to both City and Parisi CSW staff. Parisi CSW will assist staff in responding to questions and comments.

1.7 CEQA Compliance. Using the 35% documents, LSA will prepare an environmental documentation pursuant to the California Environmental Quality Act (CEQA) with the City as the lead agency. The proposed project would likely fall into the first category (Class I) of categorically exempt projects as described in **Section 15301 Existing Facilities**. Class I projects consist of the operation, repair, maintenance or minor alteration of existing public structures, facilities or equipment that involve little or no expansion of use beyond that existing at the time of the determination. Class I projects include existing highway and streets, sidewalks, gutters, bicycle and pedestrian trails, and similar facilities.

Our team assumes a Categorical Exemption (CE) would be the appropriate documentation consistent with the California Environmental Quality Act (CEQA). LSA will conduct technical analyses to support the findings for a CE and to ensure that implementation of the proposed project would result in no potentially significant impacts that would require mitigation. If, after the technical analysis, we determine that a CE is not the appropriate documentation we will revise scope of work and fee accordingly.

Biological Resources. LSA will search the California Natural Diversity Database, California Native Plant Society Inventory of Rare and Endangered Plants, and U.S. Fish and Wildlife Service's on-line database for records of special-status species that may occur in the project vicinity. Given the urban nature of the project site, the primary issues related to biological resources would be the potential presence of nesting birds and burrowing owls in the project vicinity and potential impacts to Permanente Creek and associated riparian vegetation. As discussed in the biological resources assessment prepared by Environmental Collaborative, the potential for steelhead and California red-legged frog to occur in Permanente Creek will also be addressed. An LSA biologist will conduct a reconnaissance survey of the project area to assess habitat conditions for any sensitive biological resources. No vegetation mapping, jurisdictional delineations, or focused special-status plant or animal surveys would be required. The results of the background research and field survey will be documented in a brief technical memorandum.

Cultural Resources. LSA will conduct a preliminary cultural resources review of the project site based on focused background research. The research will identify potential impact scenarios related to cultural resources (if any), specifically as pertains to exceptions to categorical exemptions found at *CEQA Guidelines* Section 15300.2(f), which identifies one such exception as "...a project which may cause a substantial adverse change¹ in the significance of a historical resource." LSA will conduct a records search for the project site and adjacent properties at the Northwest Information Center at



¹ Defined at *CEQA Guidelines* Section 15064.5(b)(1) as the "physical demolition, destruction, relocation, or alteration of the [historical] resource or its immediate surroundings such that the significance of an historical resource would be materially impaired."

Sonoma State University² and the Native American Heritage Commission in Sacramento. Due to the nature of the project and the lack of intact, visible ground surface on site, an archaeological field survey is not warranted. The results of the background research will be documented in a brief technical memorandum. Should additional work be required if federal permitting is involved, a scope and fee adjustment will be necessary to address the requirements of Section 106 of the National Historic Preservation Act.

1.8 Project Management and Coordination: Parisi CSW will be responsible for overall management of our design team including the following:

- A. Project Management: Parisi CSW will manage the design team as well as track progress, schedule, and budget. We will be responsible for documenting all design decisions and keeping an official record of the project. Furthermore, we will submit monthly progress reports identifying tasks completed, budget status, and issues status.
- B. Quality Control/ Assurance: Robert Stevens of Highland Consulting Group will perform a quality control review of the team's documents prior to submittal.
- C. We will attend up to three meeting with City staff during this phase of the project.

Deliverables: The following summarizes deliverables we will provide during this task:

- i. Summary of biological resources within the project area
- ii. Jurisdictional Delineation of Waters of the United States
- iii. Geotechnical assessment
- iv. Existing conditions mapping illustrating topography, boundary, and utilities
- v. Final trail alignment and bridge type with probable costs
- vi. Meeting notes, progress schedule, and schedule

TASK 2: CONSTRUCTION DOCUMENTS

Objective: The team will prepare construction documents for use in permitting, bidding, and construction.

2.1 Construction Documents: The team will prepare Plans, Specifications, and Estimate at the 65%, 95%, and 100% level including:

- A. Title Sheet
- B. Existing Conditions Plan
- C. Demolition Plan
- D. Trail Plan and Profile
- E. Trail Sections
- F. Bridge Layout, Profile, Section, and Foundation Plans
- G. General Details

2 The Northwest Information Center is the official State repository for cultural resources and studies for Contra Costa County.

- H. Erosion Control Plans
- I. Project Technical Specifications
- J. Bid Schedule and Opinion of Probable Construction Cost

2.2 CVWD Approval. Using the 95% submittal, Parisi CSW will coordinate with SCVWD for approval to construct the improvements. The team will meet with the City to review comments. We will update the plans previously prepared and include the final comments updating the documents for bidding.

2.3 Final Outreach. We will complete a final outreach effort as defined in Task 1.6 to inform stakeholders and residents of the final bidding and construction schedule.

2.4 Project Management and Coordination. We will complete project management as defined in Task 1.9. We will complete up to three (3) meetings during this phase.

Deliverables: The following summarizes deliverables we will provide during this task:

- i. We will provide electronic (CAD and PDF) and hardcopies (mylar, bond, and/ or velum) of all documents as requested by the City.
- ii. Meeting notes, progress schedule, and schedule

TASK 3: BID SUPPORT

Our scope includes providing assistance during the bid period. We will attend the pre-bid meeting scheduled by the City to answer questions from prospective bidders. Additionally, we will respond to bidder's questions with addenda and/ or written clarifications. We will attend the bid opening meeting and tabulate bid values for the City.

3.1 Pre-bid Meeting: Parisi CSW will attend a pre-bid meeting scheduled by the City to answer questions from prospective bidders.

3.2 Issue Addenda and Clarifications: Parisi CSW will respond to bidder's questions with addenda and/or written clarifications. These will be submitted to the Project Team for distribution to all plan holders.

3.3 Bid Tabulation: Parisi CSW will attend the bid opening, review bids, tabulate all bid values, and make a recommendation to the City for award of the construction contract.

Deliverables: Contract Agenda and Response to Bidder Inquiries, Tabulated Bids, Recommendation Letter to City for Contract Award

TASK 4: CONSTRUCTION SUPPORT

A successful project requires close coordination with the contractor as they build the designed project. Parisi CSW will assist the City with the following services to help monitor the construction progress and the contractor's product with respect to the design intent.

- 4.1 Review Submittals:** Paris CSW design team will review contractor submittals. (Assume 24 submittals).
- 4.2 Respond to Requests for Information (RFI):** Paris CSW design team will respond to Request for Information. (Assume 20 RFI's) from the contractor when called for by the City and prepare modifications or revisions related to the project's original scope of work.
- 4.3 Field Visits / Meetings:** Paris CSW will attend a pre-construction conference to respond to questions concerning the plans, specifications and estimates. Additionally we assume up to seven (7) construction meetings as requested by the City in response to questions regarding the progress of the construction activities.
- 4.4 Management and Coordination:** Paris CSW will coordinate with City staff in reviewing progress payments and Contractor change order requests.
- 4.5 Punch List:** Near the completion of construction, Parisi CSW will review the project in coordination with staff to develop a list of items that do not comply with the project documents and require correction. When the contractor completes corrections, Parisi CSW will notify the City. We will prepare a staff report that notes acceptance of the project on behalf of staff for presentation to Council.
- 4.6 Record Drawings:** Paris CSW will prepare Record Drawings based on the Contractor Red-Line improvements on the stamped/City Approved design plans.

Deliverables: Response to Contractor Submittals and RFIs, Punch List, Stamp Set: Record Drawings (PDF)

COLONY STREET CONNECTION TO PERMANENTE CREEK TRAIL, PROJECT 18-48

