



## CAMBRIA COMMUNITY SERVICES DISTRICT

Karen Dean, Chair of the Resources & Infrastructure Committee, hereby calls a Special Meeting pursuant to California Government Code Section 54956. The Special Meeting will be held: **Monday, June 26, 2023, 10:00 AM, 1000 Main Street, Cambria, CA 93428.** The purpose of Special Meeting is to discuss or transact the following business:

### NOTICE OF SPECIAL MEETING

#### CAMBRIA COMMUNITY SERVICES DISTRICT RESOURCES & INFRASTRUCTURE COMMITTEE

**Monday, June 26, 2023**

**10:00 AM**

**1000 Main Street, Cambria, CA 93428**

**In person at:**

**Cambria Veterans' Memorial Hall  
1000 Main Street, Cambria, CA 93428**

**AND via Zoom at:**

**Please click the link below to join the webinar:**

**<https://us06web.zoom.us/j/89564967893?pwd=emltZFRJSF11OWU5TEtkUVZlWkJoZz09>**

**Passcode: 153474**

**Or One tap mobile :**

**+16699006833,,89564967893# US (San Jose)**

**+16694449171,,89564967893# US**

**Or Telephone:**

**Dial(for higher quality, dial a number based on your current location):**

**+1 669 900 6833 US (San Jose)**

**+1 669 444 9171 US**

**+1 719 359 4580 US**

**+1 253 205 0468 US**

**+1 253 215 8782 US (Tacoma)**

**+1 346 248 7799 US (Houston)**

**+1 507 473 4847 US**

**+1 564 217 2000 US**

**+1 646 931 3860 US**

**+1 689 278 1000 US**

**+1 929 205 6099 US (New York)**

**+1 301 715 8592 US (Washington DC)**

+1 305 224 1968 US  
+1 309 205 3325 US  
+1 312 626 6799 US (Chicago)  
+1 360 209 5623 US  
+1 386 347 5053 US  
Webinar ID: 895 6496 7893

**International numbers available: <https://us06web.zoom.us/j/89564967893>**

Copies of the staff reports or other documentation relating to each item of business referred to on the agenda are on file in the CCSD Administration Office, available for public inspection during District business hours. The agenda and agenda packets are also available on the CCSD website at <https://www.cambriacsd.org/>. In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting or if you need the agenda or other documents in the agenda packet provided in an alternative format, contact the Administrative Analyst at 805-927-6223 at least 48 hours before the meeting to ensure that reasonable arrangements can be made. The Administrative Analyst will answer any questions regarding the agenda.

## **1. OPENING**

### **A. CALL TO ORDER**

### **B. ESTABLISH QUORUM**

### **C. CHAIRPERSON'S REPORT**

### **D. AD HOC SUB-COMMITTEE REPORTS**

### **E. COMMITTEE MEMBER COMMUNICATIONS**

Any Committee Member may make an announcement, report briefly on his or her activities, or ask a question for clarification.

### **F. PUBLIC COMMENTS ON AGENDA ITEMS**

Members of the public may now address the Board on any item on its agenda today.

## **2. REGULAR BUSINESS**

- A. Discussion and Consideration of an Agreement for Consultant Services and Cost Estimate with Cannon Engineering for the San Simeon Water Main and Effluent Line Replacement Project and Approve Recommendation to Refer Project and Necessary Budget Adjustment to the Finance Committee

## **3. FUTURE AGENDA ITEMS**

## **4. ADJOURN**

## CAMBRIA COMMUNITY SERVICES DISTRICT

TO: Resources &amp; Infrastructure Committee

AGENDA NO. **2.A.**

FROM: Ray Dienzo, Utilities Department Manager/District Engineer

Meeting Date: June 26, 2023

Subject: Discussion and Consideration of an Agreement for Consultant Services and Cost Estimate with Cannon Engineering for the San Simeon Water Main and Effluent Line Replacement Project and Approve Recommendation to Refer Project and Necessary Budget Adjustment to the Finance Committee

**RECOMMENDATION:**

Staff recommends that the Resources & Infrastructure (R&I) Committee discuss and consider the proposal and cost estimate for Cannon Engineering for the San Simeon Water Main and Effluent Line Replacement Project and approve staff's recommendation to refer the project and necessary budget adjustment to the Finance Committee.

**DISCUSSION:**

The District opened a Request for Proposal ("RFP") for design and engineering services for the San Simeon water and wastewater pipeline replacement project on March 16, 2023. The deadline for proposals was extended to April 25, 2023. The District's contract award deadline is 90 days from the opening of the RFP; however, considering the proposal extension, our award deadline to ensure bid pricing is July 25, 2023.

Three proposals were received and met the primary qualification criteria outlined in the District's proposal. These qualified firms have a history of designing and engineering comparable municipal projects in San Luis Obispo County and other coastal communities throughout California with environmental characteristics like those of this community. All firms and their subcontractors offered a team of extensively qualified and licensed civil engineers and technical staff with necessary geotechnical, permitting, surveying, and design expertise in water, wastewater, and recycled water pipeline project design. The Utilities Department staff suggested interviewing all the consulting firms to complete the evaluation appropriately.

At the May 24 R&I Meeting, staff suggested that one representative from the R&I Committee participate in the interview panel. Derrick Williams was appointed by the Committee but realized later that there was a conflict of interest. Chair Karen Dean agreed that Mark Meeks would be a suitable replacement, and he could participate with staff in these panel interviews and in the selection process. Staff coordinated Zoom panel interviews during the week of May 29th with key team members from each qualified firm.

After the interview process, the panel reached a unanimous consensus to award the project to Cannon Engineering. Staff recommends that the R&I Committee review and approve Cannon Engineering's proposal and cost estimate and refer the project and the necessary budget adjustment to the Finance Committee.

Attachments: Cannon Proposal Project No 1112-2023-02 by Cannon Engineering  
Cannon Proposal Cost Estimate by Cannon Engineering



# *Cambria Community Services District*

Proposal for  
Design and Engineering  
Services for the Water  
and Wastewater Pipeline  
Replacement Project

**Cannon**

Reliable Responsive Solutions



# 6 Table of Contents 2A

Section 1: Cover Letter .....	3
Section 2: Executive Summary.....	4
Section 3: Understanding and Approach.....	5
Section 4: Scope of Services .....	9
Section 5: Qualifications and Experience .....	17
Section 6: Project Fee Proposal.....	25
<b>Appendix</b>	
Exhibit A: References.....	26
Exhibit B: List of Subconsultants.....	27
Exhibit C: Business Information.....	36
Exhibit D: Additions, Deletions, and Exceptions.....	37
Addenda.....	38



Ray Dienzo, PE  
Cambria Community Services District  
5500 Heath Lane, Cambria, CA 93428

April 21, 2023

**Subject: Design and Engineering Services for the Water and Wastewater Pipeline Replacement Project**

Dear Mr. Dienzo:

Cambria Community Services District (CCSD) provides essential water and wastewater service to the unincorporated community of Cambria within San Luis Obispo County. CCSD owns and operates extensive infrastructure throughout their service area, including water supply, storage, and distribution systems as well as wastewater collection, advanced treatment, and disposal facilities.

Two critical components, a 14-inch ACP potable waterline and a 12-inch DIP wastewater effluent disposal pipeline, have essentially reached the end of their service lives and require design and replacement. Approximately 3,000 feet of 12-inch, temporary HDPE pipeline must also be removed.

Two possible alignments, identified by CCSD, and a third possible alignment, identified by Cannon, are as follows:

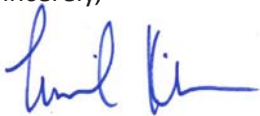
- *Alignment 1* - routes the new pipes along their existing alignments within existing easements through the California State Parks wetlands.
- *Alignment 2* - routes the new pipes to avoid the wetlands as much as possible, runs parallel to Highway 1, and crosses the State Parks and Caltrans bridges.
- *Alignment 3* - hybrid option reducing potential wetland impacts by keeping the new pipes in Washburn Campgrounds Road for as long as possible and incorporating a more direct alignment to the southerly connection points.

We understand CCSD is seeking assistance from a highly qualified consultant team experienced in designing pipelines, using trenchless construction methods, working in or around wetlands, assisting in permit procurement, coordinating with utility companies and property owners, interpreting and preparing easement and right-of-way documents, and overall project management to see the project through to completion.

We have outlined several key project components on page 7, to help evaluate the alternative alignments and provide a preferred recommendation to CCSD. One of these is a thorough preliminary design report to keep the project on schedule and allow the CEQA process to progress without delays. We have provided a preliminary critical path schedule on page 8 to show the complex nature of the project. Additionally, design and permitting will be an iterative process to satisfy CCSD's water and wastewater facility needs and the many stakeholders needs, including State Parks, permitting agencies, etc.

We have evaluated CCSD's RFP thoroughly, visited the project site, reviewed previous work, researched property lines affecting title (parcel maps, official records, etc.) and discussed goals with CCSD staff. We are ready to move forward upon your notice to proceed. We look forward to meeting with you to discuss your project in more detail.

Sincerely,



Michael Kielborn, PE, LEED AP Senior Principal Civil Engineer  
1050 Southwood Drive, San Luis Obispo, CA 93401  
☎ 805.503.4590 📠 310.633.4539  
✉ MichaelK@CannonCorp.us



Larry P. Kraemer, PE Director, Public Infrastructure  
1050 Southwood Drive, San Luis Obispo, CA 93401  
☎ 805.503.4542 📠 805.503.3863  
✉ LarryK@CannonCorp.us

*Cannon Corporation- Providing Reliable Responsive Solutions since 1976*

As a full-service engineering, surveying, and construction management firm, we take pride in our ability to offer clients a broad range of services.

Our commitment to providing clients with *Reliable Responsive Solutions*, whether the project scope is expansive or more specialized, spans 47 years. During that time, we have worked with many cities, counties, and agencies throughout California to maintain secure and dependable water and wastewater systems.

Our experience includes design and construction of hundreds of miles of water mains, pipelines, water wells, pump stations, recycled water systems, sewer/wastewater systems, and treatment facilities.

Additionally, we have worked within the County of San Luis Obispo for more than 40 years, including projects for CCSD, to complete public infrastructure projects involving work similar to the scope of services provided in the RFP.

Our team of more than 135 professionals includes registered civil, electrical, mechanical, and structural engineers; licensed land surveyors; automation and SCADA system specialists; and Caltrans certified construction managers and inspectors.

**Firm Contact / Project Manager**

Michael Kielborn, PE, LEED AP  
 1050 Southwood Drive  
 San Luis Obispo, CA 93401  
 ☎ 805.544.7407 📠 310.633.4539  
 ✉ MichaelK@CannonCorp.us



**Proximity / Office Locations**

Services for the CCSD will be provided primarily from our office in San Luis Obispo, 36.5 miles from CCSD. Cannon corporate office locations include the following:

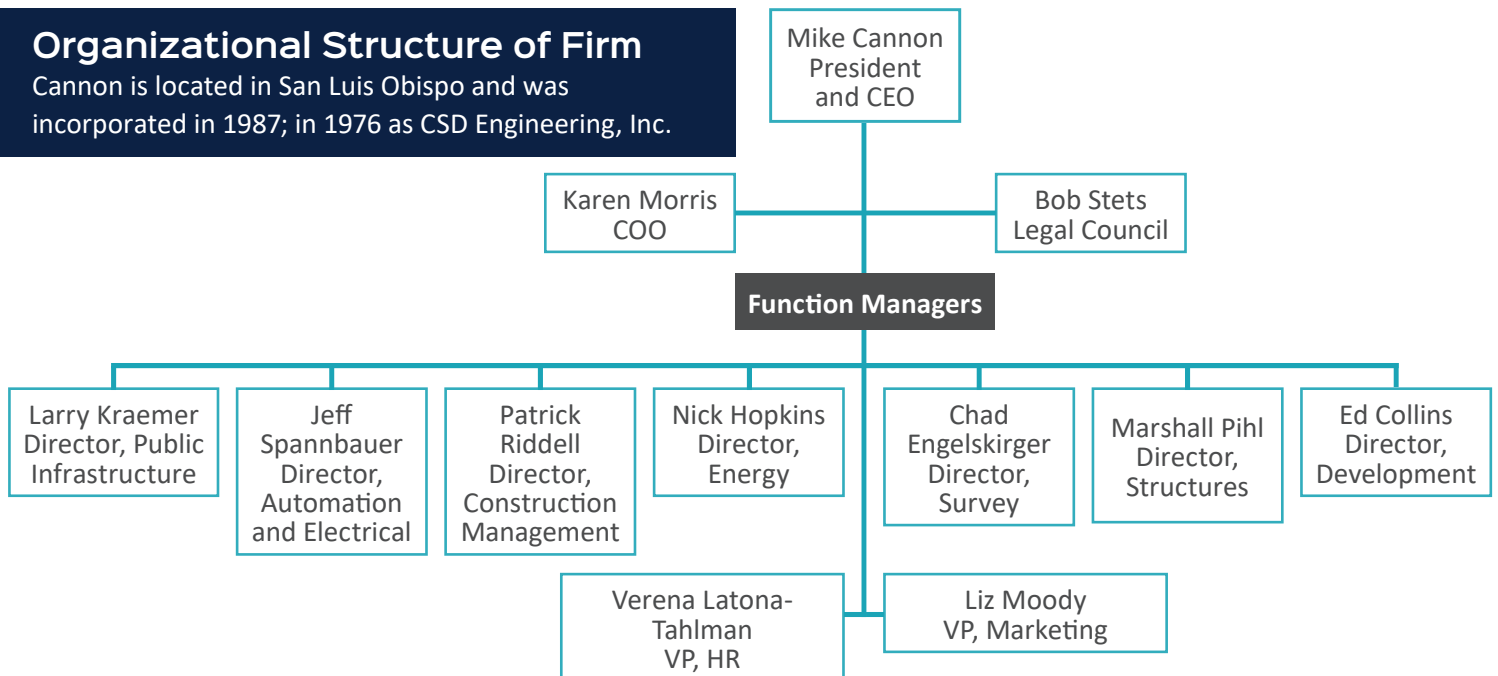
- |   |  |
|---|--|
| <b>San Luis Obispo</b><br>1050 Southwood Dr.<br>San Luis Obispo, CA 93401<br>☎ 805.544.7407           | <b>Ventura</b><br>305 South Kalorama St., Ste. A<br>Ventura, CA 93001<br>☎ 805.503.4590  |
| <b>Los Angeles</b><br>11900 West Olympic Blvd.<br>Ste. 530<br>Los Angeles, CA 90064<br>☎ 310.664.1166 | <b>Irvine</b><br>16842 Von Karman Ave.<br>Ste. 150<br>Irvine, CA 92606<br>☎ 949.753.8111 |

**Department of Industrial Relations**

Cannon’s Public Works Contractor Registration DIR number is 1000001861 (expiration June 30, 2024).

**Organizational Structure of Firm**

Cannon is located in San Luis Obispo and was incorporated in 1987; in 1976 as CSD Engineering, Inc.





## Understanding and Approach

Cambria Community Services District (CCSD) provides essential water and wastewater service to the unincorporated community of Cambria within San Luis Obispo County. CCSD owns and operates extensive infrastructure throughout their service area including water supply, storage and distribution systems, wastewater collection, advanced treatment, and disposal facilities. Two critical components, one from each of these systems, have essentially reached the end of their service lives and need replacement.

The project consists of the design and replacement of the following two critical components: 1) an existing 14-inch ACP potable waterline, and 2) a 12-inch DIP wastewater effluent disposal pipeline. A major component of the project is the removal of approximately 3,000-feet of temporary HDPE pipeline. CCSD has identified two possible alignments for the new replacement pipe segments. Cannon has identified a third alignment for CCSD's consideration (see **Exhibit 1** on page 6).

- Alignment 1 routes the new pipes along their existing alignments within existing easements through the California State Parks wetlands. Benefits of this option are that the pipeline stays within the existing easements and is much shorter than Alignment 2, but is challenged by the limited space within the easements and the difficulties of wetlands construction.
- Alignment 2 routes the new pipes to avoid the wetlands as much as possible, and runs parallel to Highway 1 and crosses the State Parks and Caltrans bridges. Benefits of this option are that the pipelines stay out of the wetlands area (maybe). But this alignment is challenged by the length, separation distance between water and wastewater lines, and supporting pipes from bridges is costly and difficult to permit.
- Alignment 3 is somewhat of a hybrid option to reduce potential impacts to the wetlands by keeping the new pipes in Washburn Campground Road for as long as possible. But this is a more direct alignment to the southerly points of connection. The benefit of this option is that it keeps the pipes in the previously disturbed roadway for as long as possible, but it would require new easements and more coordination with California State Parks.







CCSD is seeking assistance from a highly qualified consultant team experienced in pipeline design, trenchless construction methods, working in or around wetlands along with assisting in the procurement of permits; coordination with utility companies and property owners; interpretation and preparation of easement and right-of-way documents if necessary; and overall project management to see the project through to completion. We have identified several key project components as described in **Exhibit 2** on page 7 that we will use to help evaluate the alternative alignments and provide a preferred recommendation to CCSD.

We developed a preliminary critical path method (CPM) schedule (see **Exhibit 3** on page 8). This initial schedule shows a critical path being the Preliminary Design Report (PDR) followed by California Environmental Quality Act (CEQA) permitting. It is imperative that the PDR be thorough and describe the specifics of the project such that the CEQA process can continue without “hiccups”

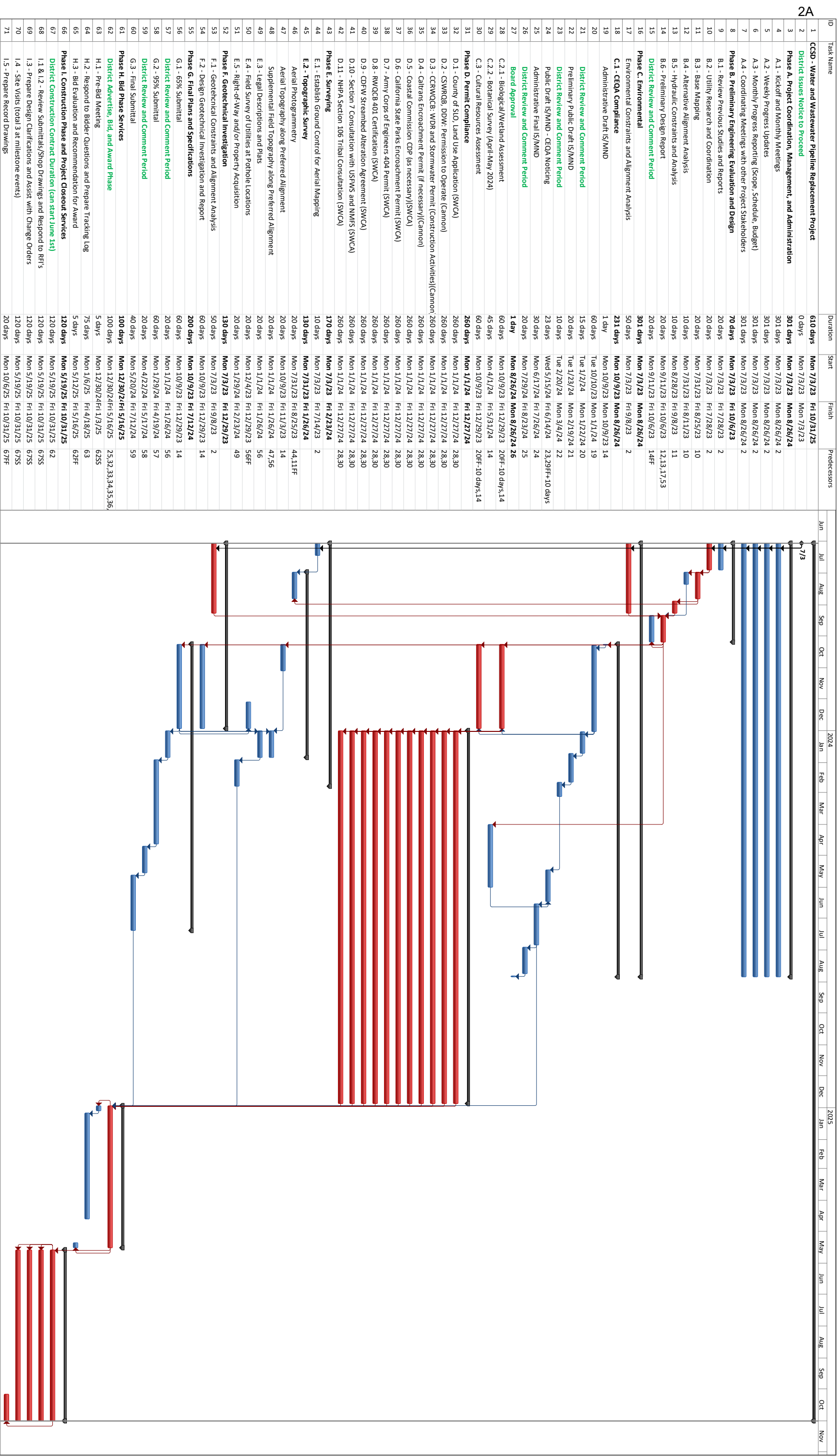
and undesirable delays. In summary, this schedule includes approximately twelve months for design, eighteen months for CEQA and permitting, five months for bidding, and six months for construction. There is room for some flexibility with certain tasks within the schedule; however, given the time restrictions for the required botanical survey (April-May, 2024), the soonest construction can occur is most likely June 1, 2025, barring another emergency condition.

From a technical perspective, we have evaluated the District’s RFP thoroughly, visited the project site, reviewed previous work, researched property lines affecting title (parcel maps, official records, etc.) and discussed goals with CCSD staff. Based on this preliminary research, we have carefully considered each of CCSD’s key goals and components, and identified strategies for evaluation and ultimate decisions for moving forward with construction details and documents as outlined below in our scope of work.

Major Component	Key Consideration	Strategy
<p><b>Project Management</b></p>	<p><b>Controlling Budget, Schedule, and Quality of Work</b></p>	<p>As part of the preliminary design report, we will develop a detailed cost estimate including major hard and soft costs through mid-point of construction. This tool will give the project team an opportunity to value-engineer project details and components. We will update the cost estimate for each milestone submittal during the design process so that adjustments can be made along the way rather than at the end. We will develop and maintain a critical path schedule at the beginning of the project to track progress of major design and permitting facets. We will compress the schedule up front as much as possible so that slack/float can be reserved, should unforeseen issues cause delay. By employing our Internal QA/QC process, we will prepare documents at the appropriate level of detail and accuracy for each milestone submittal. This will expedite review and keep discussions to substantive issues. We will provide monthly earned value assessments to evaluate whether the project is ahead/behind schedule and over/under budget.</p>
<p><b>Preliminary Design</b></p>	<p><b>Alignment Selection</b></p>	<p>Three alternative alignments for the two new replacement pipelines have been presented for consideration. CCSD will chose two alternatives for detailed consideration. Depending on the key considerations and constraints (such as existing easements, need for new easements and permits, alignment pros and cons, different construction methods, etc.), the analysis may result in a combination of alignments or just one corridor. For example, it may make sense to install a new water main via horizontal directional drilling (HDD) in Alignment 3 as it is the most direct and shortest distance, and pipe burst the existing ACP water main for the new replacement wastewater effluent line (as pipe bursting the existing 12-inch ductile iron pipe would be more difficult than bursting the ACP). We will explore these options during the preliminary design effort.</p>
<p><b>Design and Construction Methods</b></p>	<p><b>Open Cut vs. Trenchless Technology (HDD, Micro-tunneling, Pipe Bursting, etc.)</b></p>	<p>There are multiple construction techniques that could be employed for the installation and construction of the replacement pipelines. Selecting the appropriate method could save CCSD money and shorten the duration of the project (e.g., staying within the existing easements). We will conduct a careful review of open cut, pipe jacking, pipe reaming, pipe bursting, and micro-tunneling during the preliminary design phase and recommend which techniques are viable given the constraints of the project. Constraints include many factors, such as wetlands, cultural resources, soil type, depth of pipe, integrity of line and grade of existing pipe, pipe slope, lay down areas, proximity to existing utilities, park disruptions, bypass pumping needs, right-of-way/easements, locations of air/vacs and blowoff/drains, and connections to existing mains. Pipe bursting may be a good option because it would allow the replacement mains to go back in the same locations as the existing mains. It would also avoid the risk associated with frac-outs of drilling mud (such as HDD), but it would require bursting through ductile iron pipe (which is not easy) and through fittings and/or concrete thrust block if they exist. HDD could be a good option since it allows a very direct alignment between connection points to be designed; however, there is a risk of frac-out and it would need to be considered in permitting.</p>
<p><b>Environmental Compliance and Permitting</b></p>	<p><b>Navigating CEQA and Permitting</b></p>	<p>Based on SWCA's review of the proposed project, the following summarizes the key issues for avoiding and/or reducing impacts to sensitive resources and streamlining the required regulatory agency permitting and environmental review process. The proposed project area is located within the flood plain of lower San Simeon Creek which contains extensive riparian woodland and coastal wetland resources that provide suitable habitat for several listed species, including the California red-legged frog (<i>Rana draytonii</i>). Further, the proposed pipeline alternatives are located in close proximity to previously documented archaeological resources. The project's potential to impact these resources will depend on the final project design and construction methodology. The team will work with CCSD to avoid sensitive resources to the extent feasible and/or develop strategies to reduce impacts to a less than significant level. This will require focused waters/wetlands delineation and mapping of environmentally sensitive habitat areas (ESHA) as part of the preliminary alternatives analysis. Regardless of the potential for impact, we anticipate the need for early engagement and consultation with state and federal agencies to address potential impacts to waters/wetlands, ESHA and listed species. Additionally, we anticipate the need to engage tribal stakeholders and State Parks early in the process to confirm necessary measures are taken to avoid/reduce potential impacts to important archaeological resources. A compensatory mitigation plan will likely also be required in coordination with State Parks to offset temporary impacts to wetland resources/ESHA. We anticipate that these key issues will be the focus of the CEQA document and that the most critical component of the CEQA review process will be to confirm the document adequately addresses the concerns of responsible agencies related to these issues (e.g., Coastal Commission, State Parks, U.S. Fish and Wildlife Service, etc.).</p>
<p><b>Order of Work and Construction Sequencing</b></p>	<p><b>Maintaining Water Service and Effluent Disposal During Construction</b></p>	<p>Maintaining service to customers while replacing existing infrastructure is imperative to the success of this project. Depending on the construction methods chosen, this effort could be a significant challenge and expense to the project. We will look for innovative ways to reduce the duration and extent of service disruptions as much as practicable. This could be a major factor in determining which alternative construction methods to allow and which ones to eliminate. A potential strategy for construction sequencing is as follows:</p> <ul style="list-style-type: none"> <li>Step 1 - keep the temporary 12-inch HDPE water line in service until the new replacement water line is constructed, tested, disinfected and ready for use;</li> <li>Step 2 - construct the new replacement waterline either in Alignment 1 (pipe burst along existing alignment) or Alignment 3 (HDD);</li> <li>Step 3 - use the temporary 12-inch HDPE pipe line as the bypass line for the existing 12-inch effluent line;</li> <li>Step 4 - construct the new replacement effluent line either in Alignment 1 (pipe burst along existing alignment of existing effluent line or use existing 14-inch waterline if Alignment 3 was used for new waterline);</li> <li>Step 5 - put new replacement effluent line in service; and,</li> <li>Step 6 - remove temporary 12-inch HDPE from above ground route).</li> </ul>



Exhibit 3: Project Schedule



12 Project: 230311 - Preliminary Schedules Date: Fri 4/21/23

Task Split Milestone

Summary Project Summary External Tasks

External Milestone Inactive Task Inactive Milestone

Inactive Summary Manual Task Duration-only

Manual Summary Rollup Manual Summary Start-only

Finish-only Deadline Critical

Critical Split Progress



The following scope of work is based on our understanding of the project as outlined above, our experience on similar successful projects, a site visit, and a discussion with CCSD staff. Our approach to successful completion of this project is based on providing professional services as described below. The detailed tasks and sub-tasks are carefully sequenced to provide an efficient schedule while remaining realistic and achievable. We will build upon previous work, especially the emergency work performed in 2021, and confirm critical assumptions and criteria as part of our work.

### ***Phase A: Project Coordination, Management, and Administration***

Cannon will provide contract management and quality control services throughout the duration of the project. Cannon's Principal-In-Charge and Project Manager, along with SWCA Environmental Consultant's Project Manager, will play an active role in the management and coordination of the project; including coordinating regular meetings with CCSD staff to discuss project status, problems, budgeting, and other areas that have an adverse effect on the work. Correspondence, submittals, and deliverables (preliminary and final) will be submitted to CCSD via hard copy and electronically at project close-out per the RFP. Project coordination, management, and administration will include the following sub-tasks.

**Task A.1** Kickoff meeting and monthly progress meetings including preparing agendas and minutes.

**Task A.2** Weekly progress updates via email and/or telephone to discuss budget, schedule, and project issues.

**Task A.3** Monthly progress reporting submitted with invoices. Monthly progress report to include:

- A monthly progress payment request;
- An overview of work accomplished during the previous month;
- A description of current key activities and an updated schedule for each task and subtask;
- A list of problem areas, if any, and proposed corrective actions;
- A list of tasks for the following month; and
- A bar graph showing total contract budget, monthly invoiced amounts, cumulative amount invoiced, and project billings to the end of project.

**Task A.4 Coordination** – Coordinating meetings with stakeholders, property owners, and agencies. A total of five meetings are included for proposal purposes with one of those meetings in person and the other four as virtual meetings.

## Phase B: Preliminary Engineering Evaluation and Design

Cannon will provide preliminary engineering design services prior to commencing detailed design.

Preliminary engineering design services will include an evaluation of the two pipeline replacement projects, alternative alignments as described above in our project understanding and approach, and in the following sub-tasks. We will include our subconsultants, SWCA and Yeh Associates, in the preliminary design process to provide constraints analysis with respect to their technical expertise and impacts to select a preferred alignment and approach.

**Task B.1 Review Previous Studies and Reports** – We will review and evaluate previously completed projects and analysis and recommend criteria and/or assumptions depending on our findings and after discussing with CCSD.

**Task B.2 Utility Research and Coordination** – We will conduct utility research with the public and private utility providers who have existing facilities within the proposed project areas, and obtain record drawings and as-built information. We will compile and review the documents for inclusion into the electronic base map to use in preliminary design and subsequent related tasks defined below.

**Task B.3 Base Mapping** – Based on the findings from previous tasks, we will develop the base map for the preliminary design of the project by incorporating available topographic data, boundary information, and

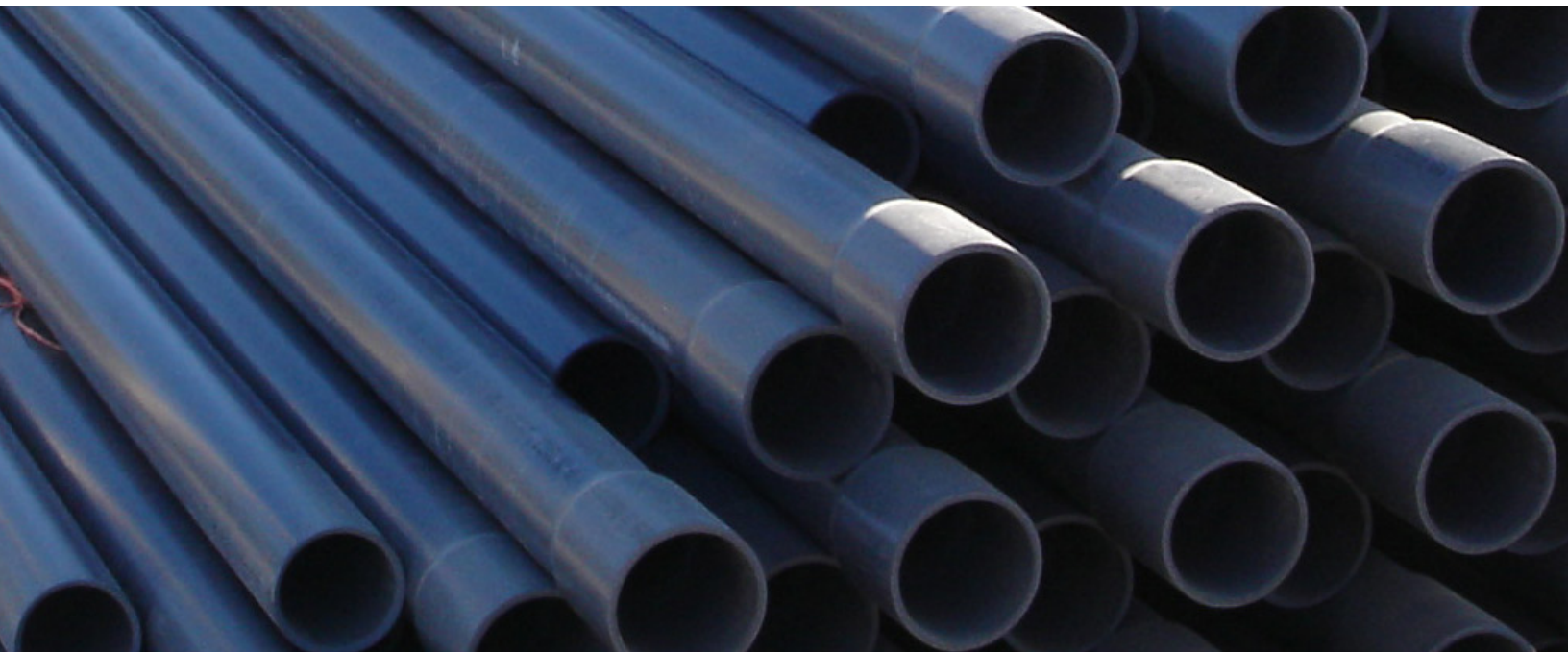
utility information for use in evaluating alignments for the proposed improvements.

**Task B.4 Alternative Alignment Analysis** – After completion of the base map, we will prepare alternative alignments for the proposed facilities and prepare plan and profile layouts for each of the alignments. We will compile physical data for each of the alignments for comparison purposes in the PDR.

**Task B.5 Hydraulic Constraints and Analysis** – We will perform basic hydraulic calculations (pipe sizing, minimum and maximum velocities, pressure losses, etc.) for each project and the alternatives. A summary of our findings will be included in the PDR.

**Task B.6 Preliminary Design Report** – We will prepare a PDR that provides a preliminary plan and profile, the advantages and disadvantages for alternative alignments and construction methods, the recommended construction method, geotechnical and construction constraints, environmental constraints, recommended project, estimated project cost, other impacts (e.g., traffic, utility interferences, agency encroachment and other permit requirements, easement requirements, etc.).

**Deliverables:** We will submit one PDF copy of the draft PDR for CCSD review and meet with the CCSD to discuss the PDR. CCSD comments on the draft PDR will be incorporated into a final PDR. We will submit one PDF copy of the final PDR to CCSD with the final PDR being signed by a licensed civil engineer in California.





## Phase C: Environmental

We will retain the services of SWCA Environmental Consultant (SWCA) for environmental services. SWCA developed the following scope of work for environmental services anticipated to be required as part of the environmental documentation process under CEQA. The scope is based on our understanding of the project and the project history, our experience with similar projects, preliminary investigation and research, and background information provided by the CCSD.

**Task C.1 Initial Study/Mitigated Negative Declaration –** SWCA has prepared the following scope of work to prepare an Initial Study/Mitigated Negative Declaration (IS/MND), which includes the tasks necessary to complete the CEQA process for the project.

### **Project Description**

SWCA will prepare a written project description based on plans and information received from the CCSD. We understand the project description will include the selected pipeline replacement alternative in a single CEQA document. The administrative draft project description will be provided in electronic form. Upon receipt of comments and clarifications from the CCSD, SWCA will prepare a final project description. Upon completion of the project description, SWCA will coordinate directly with the CCSD to confirm the IS/MND format, scope, and content is consistent with the CCSD requirements.

### **Administrative Draft IS/MND**

Preparation of the IS/MND will include an assessment of resources as required by CEQA Guidelines (Appendix G). The environmental analysis will incorporate necessary technical studies and information provided by the CCSD and other responsible or stakeholder agencies. Air emissions will be quantified using the California Emissions Estimator Model (CalEEMod), and output spreadsheets will be attached to the IS/MND. Additional background information will be obtained from the County's General Plan documents, resource agency online documents, and our in-house library. Our administrative draft IS/MND submittal will include a draft Mitigation Monitoring and Reporting Plan (MMRP), which will identify each mitigation measure, the appropriate milestone or timing to implement the measure, the responsible party, and identified reporting requirements. SWCA will submit an administrative draft IS/MND for the CCSD's review and approval.

### **Public Review Draft IS/MND**

Upon receipt of comments on the administrative draft IS/MND, SWCA will finalize the public review draft IS/MND, and MMRP for public review and circulation. Our scope of work assumes that SWCA will provide complete electronic versions of documents to the CCSD, including Word and Adobe versions. This task includes preparation of required CEQA notices, including the Notice of Intent (NOI) to Adopt an IS/MND, Notice of Completion (NOC), and Summary Form. SWCA can assist with filing the NOI and required Clearinghouse notices at the San Luis Obispo County Clerk Recorder's Office and State Clearing House; however, we assume the CCSD will be responsible to pay associated filing fees and to arrange publication of the NOI in the local newspaper. We also assume CCSD will post the NOI and public review draft IS/MND on the CCSD website.

### **Final IS/MND**

Following 30-day public circulation of the public review draft IS/MND, SWCA will provide written responses to the comments received during circulation of the IS/MND to clearly document responses to substantive environmental issues for decision-maker review. Identified necessary minor clarifications to the IS/MND will be made and a final IS/MND will be provided to the CCSD for review and approval.

### **Meetings**

SWCA's project manager and additional staff, as appropriate, will be available to meet with CCSD staff and engineers at regular meetings throughout the CEQA process. Our scope also includes attendance at one public hearing for adoption of the IS/MND. SWCA's project manager will be available to assist with the project presentation and to respond to questions on the environmental review process or findings.

Because of SWCA's local presence in San Luis Obispo County, they are within a short distance of the CCSD's and Cannon's offices. SWCA would be available to meet with the project team in person and on short notice throughout the planning process.

Upon approval of the IS/MND (or upon earlier request of CCSD), SWCA will prepare a draft Notice of Determination (NOD) form for CCSD review and approval. SWCA can assist with filing the NOD at the San Luis Obispo County Clerk Recorder's Office and State Clearing House; however, we assume the CCSD will be responsible for paying associated filing fees and CDFW environmental filing fees.

**Task C.2 Biological Resources Assessment / Waters & Wetland Delineation** – SWCA understands the proposed pipeline project is located within a coastal floodplain which contains sensitive biological resources. In compliance with CEQA and the County of San Luis Obispo’s and CCSD’s guidelines for protecting biological resources, SWCA has identified the following specific tasks to be completed.

***Desktop Literature Review / Reconnaissance Level Biological Survey***

SWCA will conduct a review of literature, pertinent maps, and biological databases to identify sensitive biological resources that have been observed or have potential to occur in the vicinity of the project site. The sources consulted will include the California Department of Fish and Wildlife’s California Natural Diversity Database and the U.S. Fish and Wildlife Service’s (USFWS) Critical Habitat Mapper and existing biological resources studies completed within the project area. In addition to sensitive biological resources, the background research will include an assessment of potential aquatic resources. For this, SWCA will consult appropriate databases, such as the USFWS National Wetlands Inventory as well as identified past wetland delineations. The results of the background research and literature review will assist in directing the field survey and may inform the results of the on-the-

ground observations. The initial desktop review, coupled with a reconnaissance level biological survey, will be used to facilitate the biological constraints assessment in support of the pipeline alternatives analysis. This initial task will be completed in fall of 2023 in an effort to initiate the regulatory agency permitting and CEQA schedule.

***Botanical and Biological Resources Surveys***

SWCA will conduct a field survey within the proposed pipeline replacement area(s) and a surrounding buffer. The survey will focus on documenting existing site conditions, identification and documentation of the overall biological community, and presence of suitable habitat for potentially occurring special-status species. The task will be completed by a qualified botanist and a wildlife biologist and will include an inventory of the plants and wildlife identified on-site. Sensitive resources that are identified during surveys will be mapped with a global positioning system (GPS) unit. The survey will be appropriately timed during the typical peak blooming period for regionally occurring, special-status botanical species in spring 2024 (i.e., typically April – June). The specific survey timing will be based on seasonal environmental conditions, which will be tracked throughout the early spring, to facilitate appropriate survey timing.





### ***Waters and Wetland Delineation***

Under this task, SWCA will conduct field surveys to evaluate the limits of waters/wetlands in the project area. The delineation will be used in obtaining agency permits and will follow the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (2008). The delineation of waters will follow A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States (OHWM Manual) (Lichvar and McColley, 2008). To the extent feasible, the wetland delineation efforts will be completed to coincide with the botanical and biological resources assessment survey efforts outlined above. The findings of the waters and wetland assessment will be compiled into a stand-alone wetland delineation report and included as an addendum to the biological resources assessment report.

### ***Biological Resources Assessment and Wetland Delineation Reports***

Following the field surveys, draft reports documenting the survey findings from the biological resources surveys and waters/wetland delineation will be prepared. The Biological Resources Assessment (BRA) report will include a description of the biological resources documented on the site, as well as sensitive biological resources with potential to occur based on presence of suitable habitat. Further, the results of the waters and wetland delineation will be documented in a formal Wetland Delineation Report. The BRA report will be prepared in accordance with San Luis Obispo County biological resources assessment report requirements to support the environmental review process. This will include a discussion of Environmentally Sensitive Habitat Areas (ESHA) mapped as part of the collective biological survey and wetland assessment efforts. This task assumes one meeting to discuss the report(s) findings and recommended avoidance and minimization measures.

**Task C.3 Cultural Resources Assessment** – SWCA understands the proposed pipeline project is located in close proximity to known archaeological resources. In compliance with CEQA and the County of San Luis Obispo’s and CCSD’s guidelines for protecting archaeological resources, SWCA has identified the following specific tasks to be completed.

### ***Records Search and Literature Review***

Compliance with CEQA requires that an affirmative search be undertaken to identify properties listed in, determined eligible, or eligible for listing in the National Register of Historic Places (NRHP) and California Register of Historical Resources (CRHR) that may be impacted by the proposed project. SWCA will conduct background research, in part, by performing a records search for the property at the Central Coast Information Center (CCIC) located at the Santa Barbara Museum of Natural History. The CCIC is the regional office of the California Historical Resources Information System (CHRIS), and the primary purpose of the records search is to acquire site records for relevant previously recorded cultural resources within, or within 0.25 mile of, the project area, as well as pertinent copies of previous studies.

### ***Initial Native American Coordination***

SWCA will contact the California Native American Heritage Commission (NAHC) for a review of their Sacred Lands File. The NAHC will evaluate if NAHC-listed Native American sacred lands are located within or adjacent to the project area. In addition, the NAHC will provide a list of Native American contacts for the project that they believe should be contacted for additional information. This effort will be conducted in coordination with the CCSD’s obligation under Assembly Bill 52, which requires lead agencies to take into consideration Native American concerns regarding development projects.

### ***Field Survey***

Upon completion of the CHRIS records search, SWCA will conduct an intensive pedestrian survey of the entire project site. An SWCA archaeologist will conduct the survey utilizing pedestrian transects spaced at intervals of approximately five meters, covering each portion of the project area. For the purposes of this proposal and cost estimate, based on our understanding of the area, up to three previously documented archaeological resources are located near the proposed alternatives. Updated documentation for these resources will be prepared, if necessary, upon review of existing records. No testing or evaluation will be conducted, nor will artifacts, samples, or specimens be collected during the survey.

### **Technical Report**

Upon completion of the literature review, initial Native American coordination, and field survey, SWCA will prepare a technical report that will summarize the results of the study, as well as provide management recommendations for resources within or near the project area. The report will include maps depicting the area surveyed for cultural resources. SWCA assumes that an electronic draft of this report and figures will be submitted for review. Upon receipt of comments on the draft document, SWCA will incorporate the input and produce the final report. SWCA assumes that only one round of review will be necessary. If the locations of sensitive archaeological sites or Native American cultural resources are shown or described in the report, the report will be considered confidential. The report may not be distributed to the public. In order to protect these sensitive resources, the confidential technical report will be made available only to qualified cultural resources personnel, the landowner, and project management personnel on a “need to know” basis.

**Deliverable:** SWCA will prepare a Mitigated Negative Declaration for the project. The Initial Study and Mitigated Negative Declaration will cover both of the pipeline replacement projects in a single document. One electronic copy of the draft MND will be submitted for review. The final submittal shall include the NOI, MMRP, NOD, and public review comments.

### **Task D: Permit Compliance**

SWCA will prepare permit applications for submittal to the appropriate resource agencies. Specifically, this would include preparation and submittal of the following permit applications:

- County of San Luis Obispo Land Use Permit Application;
- California State Parks Encroachment Permit Application;
- California Coastal Commission Coastal Development Permit (as necessary);
- CDFW Streambed Alteration Agreement (SAA) pursuant to Section 1600 of the Fish and Game Code;
- Corps Nationwide Permit (NWP) pursuant to Section 404 of the Clean Water Act; and
- RWQCB Water Quality Certification (WQC) pursuant Section 401 of the Clean Water Act.

SWCA will work with the project team to obtain the necessary information available for submittal including site plans and/or engineering schematics, impact calculations, and amount of type and fill materials to support permit applications and Section 7 consultation. This assumes formal consultation with the USFWS for potential take of California red-legged frog and other potentially occurring listed species.

Cannon will prepare and/or assist the District in permit applications for submittal to the other potential agencies as follows:

- CSWRCB, Division of Drinking Water – Permission to Operate
- Central Coast RWQCB – WDR and Stormwater Construction Permit
- Caltrans Encroachment Permits

Cannon will work with the project team to obtain the necessary information available for submittal including site plans and/or engineering schematics, impact calculations, and amount of type and fill materials to support permit applications.

### **Permit Tracking and Follow-up Support**

After submittal of permit applications, SWCA will continue to work with the CCSD and the regulatory agencies to confirm that permits and/or authorizations are processed and issued. This may include conference calls, meetings, and/or site visits with agency representatives including those from the USFWS to support Section 7 consultation. Due to the dynamic nature of regulatory agency permitting, it is not possible to identify all of the potential tasks and associated costs required to acquire the final permits. As such, SWCA’s project manager will maintain close communications with the project team throughout the project. Identified out-of-scope permitting tasks will be communicated to the team and agreed upon prior to implementation.

### **Compensatory Mitigation Plan**

In anticipation of the request by regulatory agencies, SWCA is proposing to prepare a Compensatory Mitigation Plan (CMP) to address the temporary and permanent impacts associated with the proposed project. This would include an assessment of undisturbed areas adjacent to the proposed pipeline installation areas to evaluate appropriate restoration objectives and performance criteria. It is assumed that required bore/access pits (as necessary) and/or temporary access and staging areas

would result in impacts to wetland habitat areas requiring compensatory mitigation. The CMP would include existing site conditions, expected impacts to wetlands on-site, measures to protect sensitive biological resources, site preparation, revegetation methods, native seed mixes, container stock palettes, erosion and sedimentation controls, maintenance, restoration monitoring schedule, performance criteria, and reporting. Further, the CMP would outline the procedures necessary to stabilize the temporary access routes and staging areas established as part of the pipeline repair efforts. A draft CMP will be provided for review and approval prior to submittal to the respective regulatory agencies. This estimate assumes one round of revisions, as necessary, prior to submittal to the regulatory agencies.

### *Phase E: Surveying*

Cannon will provide surveying services for the project as outlined below.

- a. We will perform a field topographic survey of the final selected pipeline alignments, abandoned pipeline alignments, and adjacent rights-of-way with one-foot contours for pipelines. The survey will identify existing easements, identify street monuments, surface features of the affected project areas, assessor parcel numbers, and verify locations of existing underground utilities on or adjacent to the proposed site or sites.
- b. We will prepare legal descriptions and plats to facilitate the District's acquisition of easements for the proposed pipeline alignment that are outside existing easement limits. We have included a budget of \$10,000 for potential right-of-way acquisition consultation with our sub-consultant Hamner, Jewell and Associates in the event their services are needed.
- c. We will coordinate potholing with District staff to document potholing activities are surveyed. District will provide pothole contractor.
- d. We will establish survey ground control for aerial mapping using NAD83 coordinates and NAVD88 county benchmark elevations.

**Deliverable:** Cannon will provide the aerial photography, and the topographical mapping to the District electronically on a thumb drive, and provide original files, searchable PDF, and AutoCAD formats.

### *Phase F: Geotechnical Investigation*

We will retain the services of Yeh & Associates, Inc. to prepare a general geotechnical engineering investigation for the proposed water and wastewater pipe replacements throughout the extents of the project to provide prospective bidders and the contractor with information about the type of material they can expect during construction.

### *Phase G: Final Plans and Specifications*

Cannon will provide final engineering design services and prepare construction estimates, construction plans, and technical specifications (PS&E) suitable to be inserted into District standard contract documents for distribution to contractors. PS&E services will include:

- Incorporating supplemental field, topographic and control surveys as necessary to prepare final construction documents.
- Incorporating geotechnical investigations and reports based on the locations evaluated in the approved PDR.
- Completing engineering, surveying, analysis and investigation.
- Coordinating with known utilities required to confirm horizontal and vertical conflicts are identified and resolved through design or relocations.
- Identifying pothole locations. Field locate and plot pothole information will be provided by District's pothole contractor.
- Preparing design calculations and completing plan preparation, technical specification preparation, engineer's cost estimates, and other appropriate engineering services necessary to provide complete contract documents ready for public bid.

We will prepare a separate set of plans for each pipeline replacement project. We will provide a single set of project specifications that covers both pipeline replacement projects and a single set of contract documents. The contract documents will have a separate bid form for each pipeline project. We acknowledge the District reserves the right to bid and award separate contracts or any combination which best meets the needs of the District. Our plans will be prepared in AutoCAD. We acknowledge that the plans, contract document and specification formats, templates, and standards will be approved by CCSD. Plan template will conform to CCSD Plans and will be 22" x 34".

**Table 1: List of Anticipate Drawings**

WATER PIPELINE		
Sheet No.	Drawing No.	Description
1	G-1	Title Sheet, Sheet Index, Vicinity Map, Location Map, Signatures
2	G-2	General Notes, Legend, Abbreviations, Symbols
3	G-3	Geotechnical Borings and Pothole Tables
4	C-1	Survey Boundary Map and Project Layout
5	C-2	14-inch Water Pipeline – Plan and Profile - 1
6	C-3	14-inch Water Pipeline – Plan and Profile - 2
7	C-4	14-inch Water Pipeline – Plan and Profile - 3
8	C-5	Typical Details – 1
9	C-6	Typical Details – 2
10	C-7	Construction Methods and Connection Details – 1
11	C-8	Construction Methods and Connection Details – 2
WASTEWATER PIPELINE		
Sheet No.	Drawing No.	Description
1	G-1	Title Sheet, Sheet Index, Vicinity Map, Location Map, Signatures
2	G-2	General Notes, Legend, Abbreviations, Symbols
3	G-3	Geotechnical Borings and Pothole Tables
4	C-1	Survey Boundary Map and Project Layout
5	C-2	12-inch Wastewater Pipeline – Plan and Profile - 1
6	C-3	12-inch Wastewater Pipeline – Plan and Profile - 2
7	C-4	12-inch Wastewater Pipeline – Plan and Profile - 3
8	C-5	Typical Details – 1
9	C-6	Typical Details – 2
10	C-7	Construction Methods and Connection Details – 1
11	C-8	Construction Methods and Connection Details – 2

Our plans will include profiles with tie-in details. We will perform complete utility research of known and abandoned utilities that are identified and will show pertinent information on the plans. We will coordinate potholing with the utility company and CCSD. CCSD will provide the potholing contractor as stated in “Topographic Survey” above. We will submit final plans to utility companies and secure a final letter or other method of approval from the utility company.

Plan cover sheets will include a detailed materials list. We will provide a plan and narrative construction sequencing that will minimize customer outages. We will incorporate the District’s customers requirement of not being without water overnight, on weekends and holidays, or for more than three (3) hours (total) on any day into the specifications. Plans, Specifications, and Cost Estimates will be submitted to CCSD for review and comment in three separate submittal packages: 65%, 95%, and 100% complete. The 65% submittal will include as a minimum: cover sheet, plan and profile sheets with known utilities, and a detailed cost estimate. The 95% submittal will be a complete submittal including plans, a single volume of specifications, contract documents, and an updated detailed cost estimate. The District will review the submittals and provide comments. We will incorporate comments and provide a final 100% complete set, signed by the licensed civil engineer in charge of the project.

## **Phase H: Assistance During Bidding**

Cannon will provide assistance to CCSD during the bidding phase of the project as described below.

**Task H.1 Pre-Bid Meeting** – We will attend the pre-bid meeting with prospective bidders and provide technical support to District staff relative to immediate contractor questions.

**Task H.2 Respond to Bidder Questions** – We will respond to any pertinent technical questions from the contractors during the bidding period. We will maintain a log and notes on contact and responses.

**Task H.3 Bid Evaluation** – We will assist CCSD in review of the bids and in bid evaluation to recommend the lowest, responsive, responsible bidder as the construction contractor.

## **Phase I: Assistance During Construction and Project Close-Out**

Cannon will provide assistance to CCSD during the construction phase of the project to help the contractor understand the technical aspects of the design and design changes. We acknowledge that CCSD will perform the on-site inspection, submittal and payment request review, perform final inspection, and file notice of completion. Our assistance will include:

**Task I.1 Respond to RFI(s)** – We will respond to Requests for Information (RFIs) from contractor(s) or permit agencies (20 anticipated).

**Task I.2 Shop Drawings/Submittals** – We will review and approve specialized submittals as requested by CCSD (five special submittals anticipated).

**Task I.3 Change Order Review and Processing** – We will assist the District in the preparation of change orders or clarification drawings, prepare an estimate of the cost of the change order, and assist CCSD in negotiation of the change order. We will maintain drawing revisions in AutoCAD of plan clarifications and/or modifications that occur during construction (five anticipated).

**Task I.4 Site Visits** – We anticipate conducting three site visits to observe key milestone activities as requested by CCSD.

**Task I.5 Record Drawings** – We will incorporate hard copies of the project record drawings and field notes provided by CCSD into the final AutoCAD drawings, note the “Project Record Drawing,” and date in the revision block with the revision number. Changes will be noted with the revision number.



## Qualifications and Experience

We have worked within the County of San Luis Obispo for over 40 years on projects such as the Nipomo Community Services Blacklake Sewer Consolidation, Design and Engineering Services for City of Morro Bay Lift Station 1 Force Main, and City of Paso Robles S. River Road Sewer Abandonment and Lift Station No. 8 Force Main. We have provided an overview of our experience in **Tables 2 and 3** on pages 18-19, and references in Exhibit A on page 26.

## We are Water Experts

We have selected key staff who are not just experts with potable water, recycled water, and sanitary sewer systems, but also have a long history of teaming on water projects that have enabled them to fine-tune their collaboration and coordination to deliver successful projects on time and within budget.

“ Throughout this project, Cannon exceeded the City's expectations. They were responsive and reliable, and provided a creative design to overcome potential obstacles while keeping the project on time and within budget. ”

Ditas Esperanza,  
Capital Projects Engineer  
City of Paso Robles

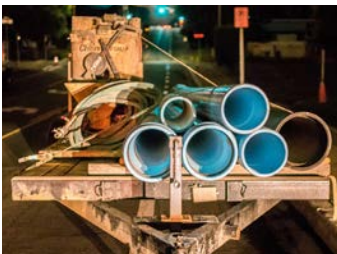


### TEAM STATISTICS

**300K+** LF of pipeline design  
**100+** years of design experience  
**40+** design engineers

## Areas of Expertise

We offer expertise in these areas relevant to your project:



Water and Wastewater Line Main Replacements



Reports, Studies, and Hydraulic Analyses



Aerial and Ground Topographic Survey



Bidding and Construction Support Services

## Financial Stability

We continue to be a growing, financially stable organization, and are proud of the good credit rating we have earned from Dunn & Bradstreet. Cannon has never been debarred, suspended or otherwise declared ineligible to contract by any Federal, State or local public agency. Our average annual revenue for the past five years is \$21 million. We have provided engineering design services on project construction costs from a few thousand to \$300 million.

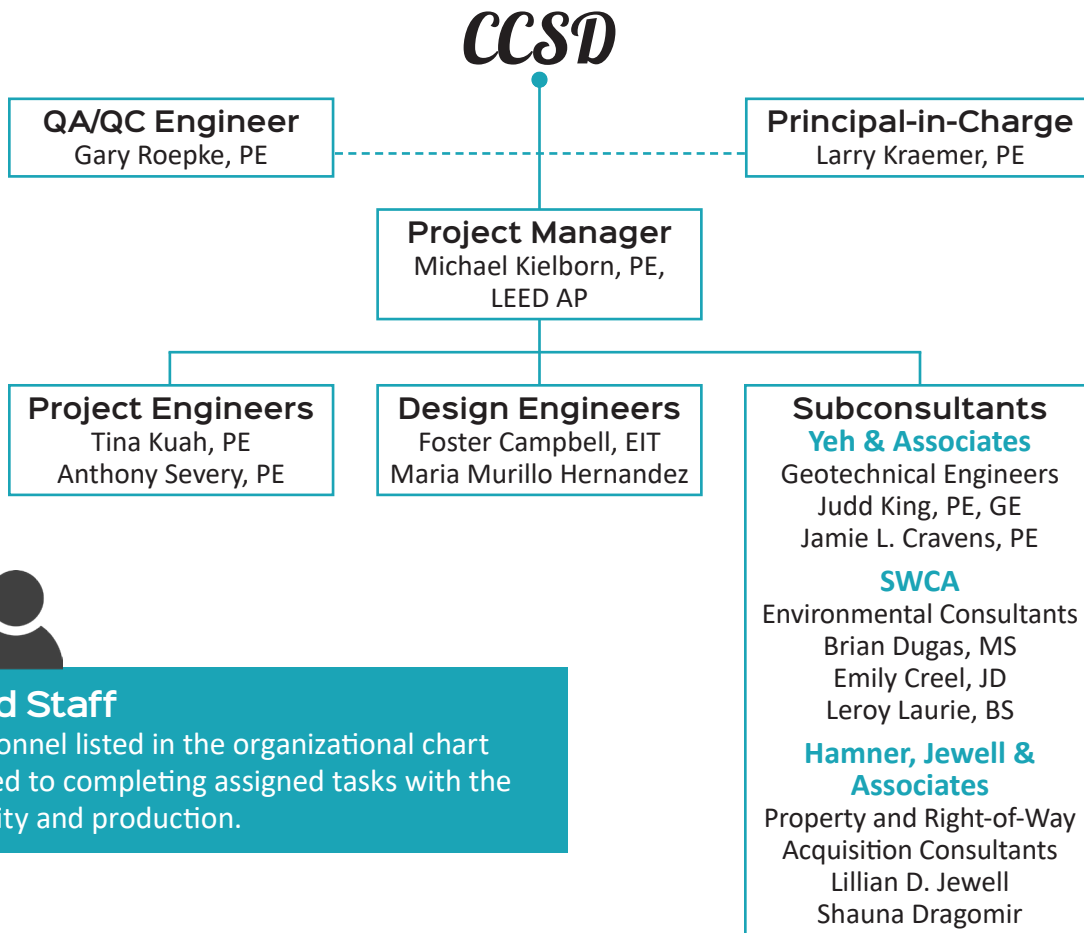
Table 2: Pipeline Projects

Project Key	Potable, Recycled, and Wastewater Resources																
	Conceptual / Preliminary Design	Final Design	Technical Plans and Specifications	Opinion of Probable Construction Cost (OPCC)	Construction Management or Engineering Support	Facility Upgrades / Improvements	Pipelines / Appurtenances	Trenchless Technology Construction Method	Alignment Analysis	Hydraulic / Surge Analysis	Sanitary Sewer System	Wastewater Treatment	Sewage Lift Station	Site Grading and Drainage	CEQA / Environmental Documents and Permitting	Automation / Electrical System Design	Surveying and Mapping
	Potable Water Pipeline Project	Recycled Water Project	Sewer/Wastewater Pipeline Project														
Lift Station 1 Force Main Design, Morro Bay, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S. River Road Sewer Abandonment and Lift Station No. 8 Force Main Extension, Paso Robles, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thunderbird Wells 16 Water Line, Paso Robles, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Monterey Street Water Main Replacement, San Luis Obispo, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Leanna Drive Water Main Creek Crossing, Arroyo Grande, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Professional Engineering Services for Obispo Street Waterline, Guadalupe, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Waterline Replacement for North Vandenberg Air Force Base, Lompoc, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Waterline Replacement for North Vandenberg Air Force Base, Lompoc, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Montecito Water District Highline Transmission Main Repairs, Montecito, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Design and Engineering Services for Lion Street Water Main, Casitas Municipal Water District, Ojai, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Design and Engineering Services for Camarillo Spring Golf Course Waterline Replacement, Camarillo, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Elizabeth Lake Road 30-inch Transmission Main, Palmdale, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Los Angeles Avenue Water Line Replacement, Simi Valley, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Design and Environmental Services for Sweetwater Waterline Civic Improvements, Malibu, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Design for Olympic Water Transmission Main, Santa Monica, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Design and Construction Management Services for Water Main Replacements, Santa Monica, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Design, Engineering, and Construction Support for Water Main Replacements, Beverly Hills, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7433 Distribution Main Replacement, Norwalk, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Jed Smith Pipeline Replacement, Las Virgeneses Municipal Water District, Hidden Hills, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fire Camp No. 19 Sewage Connection Lines and Other Water System Improvements, LACDPW, Azusa, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
San Luis Obispo Water Reuse Project, San Luis Obispo, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
West Simi Valley Water Recycling Project, Simi Valley, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycled Water Pump Station Upgrade, Simi Valley, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3 Water Pump Station, Simi Valley, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Public Works Yard Recycled Waterline Extension, Glendale, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nipomo Community Services District Blacklake Sewer Consolidation, Nipomo, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13th Street Gravity Sewer Main Replacement and Lift Station No. 5 and Force Main Project, Paso Robles, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tank Farm Sewer and Force Main, San Luis Obispo, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Highway 246 Lift Station Upgrade, Santa Ynez, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Seaside Wastewater Force Main Project, Ventura, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Vineyard Conversion and Irrigation Pipeline, McFarland, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Golden Valley Wastewater Lift Station, Los Angeles, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Table 3: Pipeline Permitting Experience		Type of Permit	Agency	Type of Crossing (Creek, RR, NA)	Type of Construction	Permitting	CM and/or Engineering Support
Atascadero Creek Sewer Siphon Replacement, Atascadero, CA	Nationwide Permit Nationwide Permit Streambed Alteration Permit 401 Certification	ACOE US Fish and Wildlife Department of F&G RWQCB	River River River River	Directional Drilling	✓	✓	
Thunderbird Waterline, Paso Robles, CA	Nationwide Permit Nationwide Permit Streambed Alteration Permit 401 Certification	ACOE US Fish and Wildlife Department of F&G RWQCB	River River River River	Directional Drilling	✓	✓	
Zanja de Cota Creek Sewer Protection Measures/Creek Restoration, Santa Ynez, CA	Nationwide Permit Nationwide Permit Streambed Alteration Permit 401 Certification	ACOE US Fish and Wildlife Department of F&G RWQCB	River River River River	Open Cut	✓	✓	
San Juan Grade Road Sewer Project, Salinas, CA	Encroachment Permit	County of Monterey	Creek	Bridge Span	✓	✓	
Highway 246 Sewer Replacement Project, Santa Ynez, CA	Encroachment Permit	County of Santa Barbara	Highway	Cured-in-Place Pipe	✓	✓	
Tank Farm Road/Broad Street Gravity Sewer and Foremain, San Luis Obispo, CA	Encroachment Permit	City of San Luis Obispo	Creek	Bridge Span and Jack and Bore	✓	✓	
Highway 184 Weedpatch Sewer, Bakerfield, CA	Encroachment Permit	CalTrans	Highway	Open Cut and Trench	✓	✓	
Highway 1/13th Street Drainage Improvement Project, Oceano, CA	Encroachment Permit	CalTrans	Highway	Open Cut and Trench	✓	✓	
Templeton Interceptor Line Lift Station and Sewer Reach, Paso Robles, CA	N/A	N/A	N/A	Pipe Burst	✓	✓	
Sewer Main Upgrades, Paso Robles, CA	N/A	N/A	N/A	Open Cut and Trench	✓	✓	
Sewer Main Rehabilitation, Paso Robles, CA	N/A	N/A	N/A	Trench / Liner	✓	✓	
Los Angeles Avenue, Madera Road and Lyander Avenue Sewer Trunk Rehabilitation, Simi Valley, CA	Encroachment Permit	City of Simi Valley	N/A	Hobas FRMP 24" slip lining	✓	✓	
Sewer Rehabilitation, Camarillo, CA	N/A	City of Camarillo	N/A	CIPP sewer repairs and Open Cut and Trench	✓	✓	
21-inch Trunk Sewer 60th Street West, Avenue J-12 to Avenue K, Lancaster, CA	Encroachment Permit	City of Lancaster	N/A	Open Cut and Trench	✓	✓	
Sanitary Sewer - Avenue I, 50 <sup>th</sup> Street West to 90 <sup>th</sup> Street West, Lancaster, CA	Encroachment Permit	City of Lancaster	N/A	Open Cut and Trench	✓	✓	
Elizabeth Lake Road Trunk Sewer, Sections 2, 3, 4 and 5, Palmdale, CA	Encroachment Permit	LA County Sanitation District No. 20	DWR Aqueduct Siphons	Open Cut and Trench	✓	✓	
Union Pacific Railroad Sewer Crossing Replacement Project, Paso Robles, CA	Encroachment Permit	UPRR	Railroad	Jack and Bore	✓	✓	
30" Effluent Pipeline, Delano, CA	Encroachment Permit	County of Kern	Highway	Jack and Bore	✓	✓	
Leanna Street Water Replacement - Creek Crossing, Arroyo Grande, CA	Underground Classification Permit	OSHA Mining and Tunneling Unit	Highway	Jack and Bore	✓	✓	
Sulphur Springs Waterline - 101 Freeway Crossing, Paso Robles, CA	Nationwide Permit Nationwide Permit Streambed Alteration Permit 401 Certification	USACE US Fish and Wildlife Department of F&W RWQCB	Creek Creek Creek Creek	Directional Drilling	✓	✓	
Price Canyon Pipeline, Arroyo Grande, CA	Encroachment Permit Encroachment Permit Minor Use Permit Utility Agreement	City of Paso Robles CalTrans	Highway Highway	Directional Drilling	✓	✓	
Pedernales Pipeline, Santa Barbara, CA	Encroachment Permit Encroachment Permit Streambed Alteration Permit Encroachment Permit	County of San Luis Obispo Union Pacific RR Union Pacific RR Department of F&G ACOE	Creek Creek Creek Creek Creek	Directional Drilling	✓	✓	
Tower Road Wellhead and Pipeline, Paso Robles, CA	Nationwide Permit 401 Certification	County of Santa Barbara RWQCB	N/A Creek	Multiple Methods	✓	✓	
Chico Road Storm Drain, Atascadero, CA	Encroachment Permit	Caltrans Southern Pacific RR Department of F&G DOT Federal Aviation Agency City of Paso Southern Pacific RR OSHA Division of Tunnels and Rail Road	N/A Rail Road Creek Roadway Runway Creek Rail Road Rail Road	Jack and Bore	✓	✓	



# Key Personnel Organizational Chart



## Dedicated Staff

Our key personnel listed in the organizational chart are committed to completing assigned tasks with the highest priority and production.

## Availability

Cannon’s current and anticipated workload allows us to completely and comprehensively fulfill the engineering design services for the water and wastewater pipeline replacements for CCSD. With offices in San Luis Obispo, Ventura, Los Angeles, and Irvine, we provide services for many clients throughout Central and Southern California and we understand the importance of meeting project schedules and deliverable deadlines.

Our long-standing relationships with multiple public agencies in the County of San Luis Obispo means that we thoroughly understand local regulations. As a multidisciplinary firm, our team is able to provide integrated services that offer creativity, efficiency, and a high-level of technical expertise that will provide valuable resources for facilitating our design services for CCSD. Our key team members work out of our San Luis Obispo office and are capable of meeting within short notice to assist with each need or request.



**Professional Registration**

- Registered Civil Engineer, California, No. 70112
- LEED Accredited Professional

**Certifications**

- National Association of Sewer Service Companies PACP, MACP, and LACP Certified
- Horizontal Directional Drilling Inspector

**Education**

- Bachelor of Science, Civil Engineering, Loyola Marymount University, Los Angeles, California

**Professional Affiliations**

- American Society of Civil Engineers
- Association of Water Agencies of Ventura County
- California Water Environment Association

**Michael Kielborn, PE, LEED AP Project Manager**

Mr. Kielborn has specialized in management and design for water and wastewater planning; water supply, storage, and distribution; and sewer system engineering since 2001, primarily working in underground utility construction and municipal infrastructure improvements. He is a certified horizontal directional drilling inspector and provides assistance with project/field inspection, cost estimation, coordination, and scheduling. Mr. Kielborn has developed excellent project management, cost estimation, in-field engineering management, inspection, coordination, and scheduling abilities for multi-million-dollar projects.

**Blacklake Sewer Consolidation, Nipomo Community Services District, Nipomo, California:**

The Blacklake Sewer System Consolidation Project consisted of designing a new 160 gpm sewer lift station; 22,000 LF of new 6-inch sewer force main; and the decommission, demolition, and site restoration of the existing Blacklake water reclamation facility. Design also included SCADA, pavement surfacing and an access road, odor control, electrical design, and survey. The schedule allotted 1.5 years for design and 1.5-years for construction support and the permitting schedule. Mr. Kielborn served as Civil Engineer on this project.

**Select Project Experience**

**Mr. Kielborn has served as Civil Engineer or Project Manager on the following projects:**

- Oceano Community Services District, Lagoon Waterline Break, Oceano, California
- Design and Engineering Services for Lion Street Water Main, Casitas Municipal Water District, Ventura, California
- Valves and Appurtenances Replacement (Ventura Street Waterline), Casitas Municipal Water District, Ventura, California
- Rice Bridge Replacement, Casitas Municipal Water District, Ventura, California
- Montecito Water District Highline Transmission Main Repairs, Montecito, California
- Camarillo Springs Golf Course Waterline Replacement, Camarillo, California
- Design and Engineering Services for City of Morro Bay Lift Station 1 Force Main, Morro Bay, California
- City of Paso Robles S. River Road Sewer Abandonment and Lift Station No. 8 Force Main Extension, Paso Robles, California
- City of Paso Robles Lift Station No. 5 and 13th Street Sewer Main Upgrades, Paso Robles, California



**Professional Registration**

- Registered Civil Engineer, California, No. 44813

**Education**

- Master of Science, Civil Engineering, Water Resources, California State University, Long Beach, California
- Bachelor of Science, Agricultural Engineering, California Polytechnic State University, San Luis Obispo, California
- Certified Master Modeler in Haestad Methods, WaterCad, StormCad, Pondpack software

**Professional Registration**

- Registered Civil Engineer, California, No. 48693

**Education**

- Bachelor of Science, Civil Engineering, Iowa State University, Ames, Iowa

**Professional Affiliations**

- Association of Water Agencies of Ventura County American Water Works Association
- Southern California Water Utilities Association
- City and County Engineers Association

**Larry Kraemer, PE Principal-in-Charge**

Since 1986, Mr. Kraemer has developed extensive civil and environmental engineering experience within the public sector. He has served as a senior engineer for complex engineering projects dealing with wastewater and water resources. As Director of Cannon's Public Infrastructure division, his duties and responsibilities include technical oversight of design, construction, and master planning projects as well as construction contract administration and management for bridges, pipelines, dams, wells, and pump stations. Mr. Kraemer is adept at managing challenging or complex projects due to his astute troubleshooting skills, keen attention to detail, and innovative approach for efficient design.

**Select Project Experience**

**Mr. Kraemer has served as Principal-in-Charge or Project Manager on the following projects:**

- Blacklake Sewer Consolidation, Nipomo Community Services District, Nipomo, California
- Design and Engineering Services for City of Morro Bay Lift Station 1 Force Main, Morro Bay, California
- Seaside Force Main Project, Ventura, California
- Design and Engineering Services for Lion Street Water Main, Casitas Municipal Water District, Ventura, California
- City of Ventura Sewerline Replacement Project, Ventura, California

**Gary Roepke, PE QA/QC Engineer**

Gary Roepke, PE brings more than 40 years of experience in engineering and design for water resources. He has been the project manager for municipal, industrial, commercial, and military facility projects involving water treatment, water supply, transmission, and distribution systems; drainage and flood control systems; wastewater collection and pumping systems; and recycled water systems.

**Select Project Experience**

**Mr. Roepke has served as QA/QC Engineer on the following projects:**

- Seaside Force Main Project, Ventura, California
- Design for Golf Course Well No. 7, Ventura, California
- Design, Equipping, and Related Site Work for Moun Nos. 2 and 3, Ventura, California
- Calleguas-Las Virgenes Municipal Water District Interconnection Project, Calabasas, California
- Jim Bridger Road Water Main Replacement, Las Virgenes Municipal Water District, California
- Design for Tucker Street Water Distribution Pipeline and Well Discharge Main, Compton, California





**Professional Registration**

- Registered Civil Engineer, California, No 82551

**Education**

- Bachelor of Science, Civil Engineering, California Polytechnic State University, San Luis Obispo, California
- H2ONet Certified Water Distribution Modeler

**Professional Affiliations**

- American Society of Civil Engineers - President Elect: Central Coast Chapter

**Professional Registration**

- Professional Civil Engineer, California, No. 70876

**Education**

- Bachelor of Science, Civil Engineering, University of California, Los Angeles, California

**Professional Affiliations**

- American Society of Civil Engineers
- American Water Works Association

**Anthony Severy, PE Project Engineer**

Since 2006, Mr. Severy has provided engineering services for public improvement, energy, survey, and automation and controls projects. Mr. Severy will lead the design team with responsibility for the majority of initial design, plan preparation, development of technical specifications and estimates, and data compilation. In addition, he provides field observation and generates reports; conducts project research; delivers communications to clients, agencies, and vendors; and provides calculations and modeling services. He will provide engineering design work that involves conventional practices, as well as complex features such as conflicting design needs, innovative solutions where conventional methods are unsuitable, and difficult coordination requirements.

**Select Project Experience Summary**

**Mr. Severy has served as Project Engineer on the following projects:**

- Seaside Force Main Project, Ventura, California
- Design and Construction Management for Monterey Street Water Main Replacement, San Luis Obispo, California
- Lift Station No. 5 and 13th Street Sewer Main Upgrades, Paso Robles, California
- Design for Santa Ynez Community Services District Sewer Main Repairs, Santa Ynez, California
- Water and Sewer Master Plan Update, Nipomo Community Service District, California
- Design for El Camino Real Gravity Sewer Extension and Replacement, Atascadero, California

**Tina Kuah, PE Project Engineer**

Ms. Kuah has more than 19 years of experience providing project engineering services. Her experience ranges from transportation, including streets and bridges; water and wastewater; education and development; emergency generators; and master planning projects. She has worked with numerous agencies and municipalities throughout California.

**Select Project Experience Summary**

**Ms. Kuah has served as Project Engineer on the following projects:**

- Engineering Design and Construction Management Services for the Murphy Reservoir Replacement Project, Whittier, California
- Design, Engineering, and Construction Support for Water Main Replacements, Beverly Hills, California
- Design and Construction Management Services for Calleguas-Las Virgenes Municipal Water District Interconnection, Calabasas, California
- Design for Avenue K 36-inch Transmission Main, Los Angeles County Water Works District No. 40, Lancaster, California



**Professional Registration**

- Engineering-in-Training (EIT)

**Education**

- Master of Science, Civil and Environmental Engineering, California Polytechnic State University, San Luis Obispo, California
- Bachelor of Science, Civil Engineering, California Polytechnic State University, San Luis Obispo, California
- H2ONet Certified Water Distribution Modeler

**Professional Affiliations**

- American Society of Civil Engineers – Past President Elect: Central Coast Chapter

**Education**

- Bachelor of Science, Civil Engineering, Chico State University, Chico, California

**Professional Affiliations**

- American Society of Civil Engineers

**Foster Campbell, EIT Design Engineer**

Mr. Campbell is a Civil Design Engineer within the Public Infrastructure Department at Cannon. He has provided design support on projects including street improvements, utility coordination, sediment removal, and demolition. In addition to his design work, Mr. Campbell has provided analysis on data collected in the field and has been able to determine trends that have been essential for himself and others to make critical decisions in a multitude of projects.

**Select Project Experience Summary**

**Mr. Campbell has served as Design Engineer on the following projects:**

- Design and Engineering Services for City of Morro Bay Lift Station 1 Force Main, Morro Bay, California
- City of Guadalupe Professional Engineering Services for the Obispo Street Waterline, Guadalupe, California
- Capital Improvement Projects for Wastewater Reclamation Facility Improvement Projects, Soledad, California
- Design and Engineering Services for Lion Street Water Main, Casitas Municipal Water District, Ventura, California
- Design and Engineering Services for Camarillo Spring Golf Course Waterline Replacement, Camarillo, California

**Maria Murillo Hernandez Design Engineer**

Ms. Murrillo Hernandez is a Civil Design Engineer whose experience includes recycled water distribution, flood control, sewer collection system rehabilitation, pipeline replacements, and storm drain mapping. She has worked with several divisions within the County of Santa Barbara, including the Public Works Transportation Division, Flood Control Division, and Project Cleanwater.

**Select Project Experience Summary**

**Ms. Murillo Hernandez has served as Design Engineer on the following projects:**

- City of Paso Robles, Design Services for Waterlines at Sherwood Acres Neighborhood, Paso Robles, California
- City of Santa Maria Water Supply Well No. 15 Design Project, Santa Maria, California
- County of Kern Animal Shelter Sewer Upgrade, Bakersfield, California
- Engineering Design Services for Orange Grove Avenue / Vicinity Water Main Replacement, Whittier, California
- City of Beverly Hills Sewer System Management Plan Update, Beverly Hills, California







## Exhibit A: References

We have provided comparable services to the following municipal clients within the last five years. Further detailed project services, including our experience with permitting for HDD in sensitive areas, is located in **Tables 2 and 3** on pages 18-19.

### *Nipomo Community Services District*

148 South Wilson Street, Nipomo, CA 93444  
 Peter Sevcik, PE, Director of Engineering and Operations  
 ☎ 805.929-1133 ✉ psevcik@ncsd.ca.gov  
 Project: Blacklake Sewer Consolidation  
 Completion Date: Est. 3/1/24  
 Approximate Cost: \$754,550

### *Montecito Water District*

583 San Ysidro Road, Montecito, CA 93108  
 Adam Kanold, PE, Engineering Manager  
 ☎ 805.969.2271 ✉ akanold@montecitowater.com  
 Project: Highline Transmission Main Repairs  
 Completion Date: 1/28/20  
 Approximate Cost: \$366,784

### *City of Morro Bay*

595 Harbor Street, Morro Bay, CA 93442  
 Eric Riddiough, PE, City Engineer  
 ☎ 805.772.6261 ✉ eriddiough@morrobayca.gov  
 Project: Lift Station 1 Force Main Design  
 Completion Date: Est. 7/1/23  
 Approximate Cost: \$45,571




### *City of Paso Robles*

1000 Spring Street, Paso Robles, CA 93446  
 Ditas Esperanza, PE, Capital Projects Engineer  
 ☎ 805.237.3861 ✉ ditas@prcity.com  
 Project: Fiber Optic Network Cable Replacement and Installation Project\*  
 Completion Date: Est. 4/1/26  
 Approximate Cost: \$494,068



\* Cannon has worked with Ms. Esperanza for the past 23 years on various projects.

# Exhibit B: List of Subconsultants / Resumes

 <p><b>Yeh and Associates, Inc.</b></p>	 <p><b>SWCA</b> ENVIRONMENTAL CONSULTANTS</p>	 <p><b>HAMNER JEWELL ASSOCIATES</b></p>
<p>Judd King, PE, GE Geotechnical Engineer</p> <p><b>Yeh and Associates, Inc.</b></p> <p>391 Front Street, Suite D Grover Beach, CA 93433 805.481.9590   jking@yeh-eng.com</p> <p>Geotechnical Engineer, California, GE2903; Civil Engineer, California, CE68257; Civil Engineer, Nevada, 23851; ICC Reinforced Concrete Inspector, 5264179-49; ICC Soils Special Inspector, 5264179-49</p>	<p>Brian Dugas, MS Principal Natural Resources Team Lead</p> <p><b>SWCA Environmental Consultants</b></p> <p>3765 South Higuera Street, Suite 102 San Luis Obispo, CA 93401 805.701.4648   brian.dugas@swca.com</p> <p>Certified Professional in Erosion and Sediment Control, 6727</p>	<p>Lillian D. Jewell Property and Right-of Way Consultant</p> <p><b>Hamner, Jewell &amp; Associates</b></p> <p>530 Paulding Circle, Suite A Arroyo Grande, CA 93420 805.773.1459   ljewell@hamner-jewell.com</p> <p>California Licensed Real Estate Broker, DRE #00704804</p>
<p>Jamie Cravens, PE Geotechnical Engineer</p> <p><b>Yeh and Associates, Inc.</b></p> <p>391 Front Street, Suite D Grover Beach, CA 93433 805.481.9590   jcravens@yeh-eng.com Geotechnical Engineer, California, No. C91514</p>	<p>Emily Creel, JD Principal Planning Team Lead</p> <p><b>SWCA Environmental Consultants</b></p> <p>3765 South Higuera Street, Suite 102 San Luis Obispo, CA 93401 805.539.2870   ecreel@swca.com</p>	<p>Sauna Dragomir, SR/WA, R/W-AMC Property and Right-of Way Consultant</p> <p><b>Hamner, Jewell &amp; Associates</b></p> <p>530 Paulding Circle, Suite A Arroyo Grande, CA 93420 805.773.1459   jtkatavich@hamner-jewell.com</p> <p>California Licensed Real Estate Broker, DRE #01406880</p>
	<p>Leroy Laurie, BS Principal Cultural Resources Team Lead</p> <p><b>SWCA Environmental Consultants</b></p> <p>3426 Empresa Drive, Suite 100 San Luis Obispo, CA, 93401 805.293.8330   llaurie@swca.com</p>	

We have provided further detail on each of our subconsultants' firm history, project experience, and team on the following pages.

Yeh and Associates, Inc. is a full-service geotechnical firm first established in Denver, Colorado in 1999. The building block of Yeh is providing specialized expertise in engineering geology and geotechnical services for transportation, infrastructure and public works projects. Yeh's offices in Grover Beach and Ventura, California are led by a team of senior professionals with a strong background in public works projects for local, state, and federal agencies. These staff have been working on projects throughout California for up to 25 years. The firm employs a total of about 160 professionals with vast experience in the fields of geotechnical engineering, engineering geology, and construction management. Yeh has specialized expertise in providing geotechnical services for water reclamation projects and the staff have worked on projects at nearly every water reclamation or wastewater treatment facility in San Luis Obispo County.

Yeh's State of California Department of Industrial Relations contractor registration number is 1000030005.

## Relevant Project Experience

This section provides a description of representative projects that are specifically relevant to this project. Note that many of the water-wastewater projects we are working on involve trenchless components and coordination with multiple public agencies.

### Morro Bay Water Reclamation Facility Lift Stations and Pipeline

Owner: City of Morro Bay  
 Client: City of Morro Bay  
 Key Staff: Judd King, Jamie Cravens, and Loree Berry

Yeh and Associates provided geotechnical services for:

- The design of two new lift stations and pipelines to convey wastewater and treated water to and from the City of Morro Bay's planned water reclamation facility.
- Design features include buried structures, pipeline trench excavation and backfill, jack and bore, microtunnelling, ground improvement using compaction grouting, and pavement.

### City of Paso Robles Recycled Water Pipeline

Owner: City of Paso Robles  
 Client: Carollo Engineers,  
 Key Staff: Judd King and Jamie Cravens

Yeh and Associates provided geotechnical services for:

- The design of approximately 9 miles (48,000 feet) of recycled water pipeline throughout the northeast corridor of the City.
- Design features included a 900,000-gallon water storage reservoir and major HDD crossing of the Salinas River for a 24-inch diameter pipeline.

### City of Paso Robles Recycled Water Pipeline

Owner: City of Paso Robles  
 Client: Carollo Engineers  
 Key Staff: Judd King and Jamie Cravens

Yeh and Associates provided geotechnical services for:

- The design of approximately 9 miles (48,000 feet) of recycled water pipeline throughout the northeast corridor of the City.
- Design features included a 900,000-gallon water storage reservoir and major HDD crossing of the Salinas River for a 24-inch diameter pipeline.

### City of Atascadero Mall Sewer Improvements

Owner: City of Atascadero  
 Client: Wallace Group  
 Key Staff: Judd King

Yeh and Associates provided geotechnical services for:

- The design for replacement of approximately 200 feet of sewer main below Highway 101 to be replaced using jack and bore methods.

### Santa Maria Country Club Recycled Water Pipeline

Owner and Client: County of Santa Barbara – Laguna County Sanitation District  
 Key Staff: Jamie Cravens

Yeh and Associates provided geotechnical services for:

- The design for approximately 6,000 feet of new recycled water pipeline that will be installed below the Santa Maria Country Club using horizontal directional drilling (HDD) and below the Santa Maria Railroad using jack and bore methodologies.





### Education

BS Civil Engineering, Cal Poly State University, San Luis Obispo, CA, 2001

### Registrations

Registered Civil Engineer: CE 68257, California; 23851, Nevada; 18170, Hawaii; 72151, Arizona

Registered Geotechnical Engineer: GE 2903, California

### Professional Affiliations

- American Society of Civil Engineers
- CalGeo, Past Board of Directors
- American Public Works Association

### Publications

“Reducing Static Settlement Potential Using Prefabricated Wick Drains – a Case History.” *Seventh International Conference on Case Studies, Geotechnical Engineering, Chicago, Illinois, April 29-May 4, 2013*

### Joined Yeh

7/2015

### Contact

391 Front Street Ste D  
Grover Beach, CA 93433  
805-481-9590  
[www.yeh-eng.com](http://www.yeh-eng.com)

### Professional Experience

Judd is the lead geotechnical engineer and project manager for several water and wastewater treatment projects on the coast of California. He is experienced in the planning, design and construction of water, wastewater and water reuse projects. He is familiar with building code and American Water Works Associations (AWWA) standards for the design of public works and water treatment conveyance and storage facilities. Judd also teaches soil mechanics laboratory classes part time in the Civil Engineering Department at Cal Poly, San Luis Obispo.

He is experienced with the design of shoring, dewatering, foundation support, excavations adjacent to existing structures, and other geotechnical aspects commonly encountered at wastewater facilities. Judd has specialized expertise in geotechnical investigations for trenchless installations. He also specializes in soft ground, mitigation of liquefaction, mechanically stabilized earth walls, reinforced soil slopes, ground improvement, tunneling, rock coring, and local projects ranging from land development to public works and infrastructure. He has over 20 years of experience in the planning, design and construction of public works and has been the geotechnical engineer for projects throughout the central coast region.

### Relevant Work History

#### Water Reclamation Facility, Morro Bay, CA, Active

Geotechnical Engineer and project manager for a design-build project that is currently under construction. Assisted with siting studies and initial feasibility study for a new treatment plant and preparation of a preliminary geotechnical and geologic hazards report that consider faulting, sidehill grading, slope stability and seismic hazards. Project manager for the preparation of the Geotechnical Baseline Report for the design-build effort to construct the new plant, and the lead geotechnical engineer for the owner's oversight of the construction of the project that is expected to start processing effluent in early 2023.

#### South San Luis Obispo County Sanitation District WWTP Redundancy Project, Oceano, CA, Active

Lead geotechnical engineer and project manager for the design and construction of improvements to increase process redundancy at the South San Luis Obispo Sanitation District's Wastewater Treatment Facility in Oceano, California. The upgrade includes partially buried aeration basins, secondary clarifier, and rerouted yard piping. The foundation support soil beneath the improvements consists of loose estuary deposits prone to settlement as a result of liquefaction. Yeh evaluated the subsurface conditions and prepared a design level geotechnical report recommending vibro-stone columns to mitigate for liquefaction. The project began construction in late 2020. Yeh provided observation of installation of vibro-stone columns and has provided geotechnical support during the construction phase of the project. Project completion is anticipated early 2023.

#### King City WWTP - Upgrade, King City, CA, Active

Project manager and senior geotechnical engineer for the design of an upgrade to the King City Wastewater Treatment Plant. The aging plant currently uses aeration ponds and effluent basins to treat wastewater. The plant will be upgraded with an aeration basin, primary and secondary clarifiers. Existing basins will be transitioned to percolation basins to supplement the existing effluent disposal process of aeration spray. Yeh will be conducting an extensive geotechnical exploration and evaluation for the proposed project. Loose soil and shallow groundwater conditions will likely be found and recommendations developed to address these conditions. The design of the project is expected to occur over the next two years.



## Education

MS Civil Engineering-Geotechnical Specialization,  
Cal Poly State University,  
San Luis Obispo, CA, 2017

BS Civil Engineering,  
Cal Poly State University,  
San Luis Obispo, CA, 2016

AS Engineering/AS Mathematics/AA  
Liberal Arts, Cuesta College, San Luis  
Obispo, CA, 2014

## Registrations

CA Civil Engineer, No. C91504

## Professional Affiliations

- American Society of Civil Engineers
- American Society of Engineers  
Younger Member Forum, San Luis  
Obispo Branch Officer

## Joined Yeh

4/2015

## Contact

391 Front Street Ste D  
Grover Beach, CA 93433  
805-481-9590  
[www.yeh-eng.com](http://www.yeh-eng.com)

## Professional Experience

Jamie Cravens has been with Yeh and Associates since early 2015 performing field logging and exploration, geotechnical analyses for slopes and foundation systems, geotechnical design for retaining walls and landslide repairs, and preparing preliminary and design-level geotechnical reports. She is experienced in performing field exploration and geotechnical evaluations for pipelines, pump stations, reservoirs, water and wastewater treatment plants, and seismic hazard assessments. Jamie's field experience includes mud rotary, rock coring, hollow stem auger and other drilling methods as well as in-situ testing using the cone penetrometer. Jamie has experience in geotechnical investigation, analyses, and report preparation for a variety of public infrastructure projects.

## Relevant Work History

### High Street-Glenn Coolidge Sewer Replacement, UC Santa Cruz, CA, 2019

Project engineer for preparation of a Geotechnical Report for the design of a sewer replacements between High Street and Glenn Coolidge Drive at the University of California Santa Cruz campus. Evaluated replacement of approximately 2,000 feet of existing gravity sewer pipe that was originally constructed in 1969. Existing geotechnical data from the University was used to supplement the project along with site reconnaissance and geologic mapping performed by Yeh. The pipeline alignment crossed complex geology with areas of perennial springs, residual soil, artificial fill, and hard rock geology composed of schist, granite, marble, and quartz diorite.

### Morro Bay Lift Station and Pipelines, Morro Bay, CA, 2019

Staff engineer for preparation of Preliminary and design-level Geotechnical Report for the design of two pump stations and approximately 3 miles of new pipeline that will convey raw wastewater to a new reclamation facility. Return pipelines will transport treated water to an existing ocean outfall and be injected for underground storage and reuse for landscape irrigation. Logged borings, prepared graphics, and assisted in the analyses and preparation of the reports that assessed multiple pipeline routes, creek crossings using microtunnel and bore and jack trenchless technologies, and assessed constructability issues for the new lift station and pipelines.

### Caltrans Storm Damage and Repairs, Santa Cruz County, CA, 2017

Staff engineer for preparation of preliminary and design-level Geotechnical Reports for the of repairs at multiple locations along Highway 9 and 35 in Santa Cruz County due to winter storm damage in early 2017. Performed foundation and slope stability evaluations for three sidehill viaducts, three anchored walls, and a micropile wall on Highway 9 and prepared design drawings for four unanchored soldier piles walls on Highway 35. Tasks included field mapping, evaluating existing conditions using site reconnaissance, drilling and sampling, laboratory testing, development of preliminary alternatives, analyses for final alternatives, and preparation of Log of Test Borings sheets for the design.

### Recycled Water Distribution Pipeline, Paso Robles, CA, 2019

Staff engineer for preparation of the Geotechnical Report for the design of a 9-mile long pipeline and 900,000-gallon storage reservoir to supply recycled water to the Airport District and Barney Schwartz Park in Paso Robles. The distribution lines were force mains that ranged from 6 to 24 inches in diameter. The tank was an above-grade, prestressed reinforced concrete tank. The pipeline crosses the Salinas River, Huerhuero Creek, steep bluffs along River Road and various drainages and state highways. Trenchless installations considering microtunneling, bore and jack, and horizontal directional drilling were evaluated.

## FIRM PROFILE

SWCA Environmental Consultants (SWCA) is a 100% employee-owned S-Corporation (California Department of Industrial Relations [DIR] #1000017804) established in 1981 and incorporated in 1984.

SWCA provides a full spectrum of environmental services focused on planning, natural and cultural resource management, permitting, regulatory compliance, and geographic information systems (GIS) consulting.

SWCA's experienced staff provide clients with California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) document preparation; natural and cultural resources surveys, management, and compliance; paleontological resources management; Clean Water Act Section 404 and stormwater permitting; environmental compliance monitoring; and other services, including Computer Aided Design (CAD) and GIS services, facilitation and public involvement, and technical editing.

SWCA currently provides similar waterline-related services to the County of San Luis Obispo, City of Paso Robles, City of Morro Bay, City of Pismo Beach, Nipomo Community Services District (NCSD), San Miguel Community Services District (SMCSD), and Golden State Water Company (GSWC), among others.



**BRIAN DUGAS, MS**  
Principal  
Natural Resources  
Team Lead

Mr. Dugas is the Principal Natural Resources Team Lead and a project manager in the SWCA San Luis Obispo office. He has over 25 years of experience conducting biological assessments, regulatory agency permitting, and environmental compliance for a variety of projects with emphasis on former oil and gas facility decommissioning and public utility improvement projects. Mr. Dugas' responsibilities have included biological resources assessments, wetland delineations, regulatory agency permitting, compliance monitoring and training; habitat restoration, monitoring, and reporting; land use planning, preliminary site assessment, environmental impact analysis, and development of site-specific mitigation strategies; special-status species site assessments, surveys, and monitoring, including fisheries assessments; and environmental inspection and technical document preparation, including Mitigated Negative Declarations and Environmental Impact Reports per CEQA guidelines. Relevant project experience includes:

- City of San Luis Obispo Calle Joaquin Sewer line Replacement Project Environmental Services
- City of Paso Robles North Airport Pipeline Infrastructure Project Environmental Services
- Oceano CSD Emergency Waterline Replacement Project Environmental Services
- Chevron Estero Marine Terminal Decommissioning Project Environmental Services
- County of San Luis Obispo San Simeon Creek Bridge Replacement Project
- Nipomo CSD Waterline Intertie Project Environmental Services
- PXP Produced Water Reclamation Facility CEQA and Biological Resources Services
- Shell Oil Molino Flowline Removal Project Environmental Services





## EMILY CREEL, JD

### Principal Planning Team Lead

Emily Creel is the Principal Planning Team Lead and a project manager in the SWCA San Luis Obispo office.

She obtained her Juris Doctor (J.D.) in 2005 and has been practicing in the field of environmental law and planning in California for more than 16 years. She has a specialized background in environmental law and policy, property law, and land use controls. Ms. Creel is currently acting as the Legislative Committee liaison and CEQA Portal Committee representative for the Channel Counties Chapter of the Association of Environmental Professionals (AEP). In those roles, she tracks environmental legislation through the California State Legislature and reviews recent environmental case law. Ms. Creel is well-versed in federal and state environmental laws and regulations, administrative and regulatory processes, local municipal codes, and California Coastal Commission regulations. Her varied experience and knowledge of CEQA's legal framework allows her to think creatively within that framework to meet project goals. Fifteen years of litigation and consulting experience have given Ms. Creel the ability to handle complex environmental and legal issues. Recent relevant project experience includes:

- LOCSD Program C Well Sites Environmental Review
- LOCSD Los Osos Pipeline Environmental Planning
- NCSO Foothill Water Tanks Site Acquisition CEQA Compliance
- NCSO Blacklake Sewer System Consolidation Project Environmental Services
- Rosedale-Rio Bravo Water Storage District Onyx Ranch Biological Resources Services
- GSWC Kelt Reservoir CEQA and Biological Resources Services
- City of Morro Bay Nutmeg Water Tank Environmental Services
- El Campo Ranch Agricultural Reservoir Environmental Services
- City of Paso Robles Recycled Water Distribution System Environmental Review
- GSWC Alamo Water Tank Replacement Environmental Services
- GSWC Foxen Canyon Water Tank Environmental Services



## LEROY LAURIE, BS

### Principal Cultural Resources Team Lead

Leroy Laurie is the Principal Cultural Resources Team Lead and a project manager in the SWCA San Luis

Obispo office. Mr. Laurie has over 20 years of cultural resource project experience throughout California and Nevada. He has conducted work in a variety of cultural and geographic regions including, but not limited to, the Sierra Nevada, Great Basin, San Joaquin Valley, Central and Coast Ranges, Mojave and Sonoran Deserts, San Francisco Bay area, and Yosemite Valley. In addition to the organization and execution of field projects, he has been the primary or contributing author to several planning level documents for large- and small-scale projects. Mr. Laurie has worked on a variety of cultural resources studies and has helped manage and implement several Phase I and Extended Phase I studies. He has authored or co-authored numerous technical reports and cultural resources sections for EIRs, EAs, and expanded initial studies. Mr. Laurie has technical experience in archaeological fieldwork, laboratory analyses, archaeological testing plans, and graphics and mapping. He has been the primary point of contact for Native American coordination for CEQA and Section 106 compliant projects.

From 2001-2005, he worked as an archaeologist for the State Parks Coastal District, which includes San Simeon State Park. He has extensive experience with the resources in this area and coordination with the State Parks archaeologists. Relevant project experience includes:

- City of Pismo Beach Ocean Boulevard Water Valve Archaeological Monitoring
- NCSO Foothill Water Tanks Site Acquisition CEQA Compliance
- SMCSO Waterline Replacement Archaeological Monitoring
- LOCSD Nipomo Avenue Pipeline Archaeological Monitoring
- City of Paso Robles Monitoring Wells and Stream Gauges Environmental Monitoring
- LOCSD Program C Well Sites Environmental Review
- City of Morro Bay Nutmeg Water Tank Environmental Services
- GSWC Kelt Reservoir Environmental Services
- Salinas Dam Spillway Architectural History Services



## WHAT WE DO

- Right of Way and Real Property Appraisal and Acquisition Services
- Relocation Assistance, Plans, Consultation, and Implementation
- Project Analysis, Site/Route Selection, and Budgetary Cost Estimates
- Title Research, Examination, Review, and Lien Clearance
- Right of Way Certification, Community Outreach, Construction Noticing, and Coordination

## SECTORS WE SERVE

- Public Agencies: Local, State, Federal; Cities, Counties, Districts, Housing Authorities
- Non-Profits: Housing, Community Development; Public-Private Partnerships
- Public Works, Infrastructure, Housing, Community Development
- Utilities/Transmission/Transportation Corridors: Surface/Subsurface Pipelines, Roads, Rail
- Pipelines: Water, sewer, drainage, recycled and salinity management, gas, oil
- Federal/State/Local Projects (Caltrans, FRA, FTA, FAA, HUD, CDBG and Tax Credit Projects)

## OUR QUALIFICATIONS

- More than 40 years providing responsive, accessible, specialized local services for publicly funded projects throughout California.
- We specialize in appraising and acquiring real property rights and providing mandated relocation assistance to property occupants in conformance with the California Government Code, Code of Regulations, the Federal Uniform Act, Caltrans, FHWA, and HUD procedures.
- Proven success in acquiring property rights and clearing project sites amicably, minimizing the instances in which eminent domain action or evictions might otherwise be required, while preserving the acquiring agency's right to initiate such actions should they become a viable necessity.
- Repeatedly recognized as "Employer of the Year" by International Right of Way Association California Central Coast Chapter 47 for outstanding professionalism, support and active involvement in the field of governmental real estate services.
- Extensive experience in aiding public utilities, municipalities, counties, school districts, redevelopment agencies, public housing authorities, nonprofit housing organizations, private developers, engineering firms, and legal counselors with planning, appraising, & implementing public improvement projects.

## LICENSES

- Hamner, Jewell & Associates is registered with the California Department of Real Estate (DRE Corporation #01298223) as a fictitious business name of Beacon Integrated Professional Resources, Inc., a California S. Corp.
- Lillian D. Jewell, Designated Broker
- Certified SBE (Department of General Services) and WBE (Supplier Clearing House)
- Most field agents are California Notaries Public and licensed through the California Department of Real Estate.
- Certified General MAI Appraiser on staff.



## LICENSES

Corporate Real Estate Broker  
Licensed Real Estate Broker:  
DRE #00704804



## EDUCATION

B.A., University of California, Santa Barbara

## TRAINING

Numerous IRWA Courses, including:

- Course 105 – The Uniform Act: Executive Summary
- Course 502 – Business Relocation
- Course 505 – Residential Relocation
- Course 802 – Legal Aspects of Easements
- Course 804 – Skills of Expert Testimony
- Course 901 – Engineering Plan Development & Application

The Negotiation and Dispute Resolution Course offered by the Ventura Center for Dispute Settlement

CLE International Eminent Domain Conference  
FRA: Acquisition, Appraisal Concepts, and Administrative Settlement

Comprehensive Rehabilitation Services  
Workshop: “All the Right Moves—Tenant Assistance and Relocation in HUD Programs”

Caltrans Acquisition Workshops

Post graduate courses in:

- Real Estate Law
- Real Estate Principles & Practice
- Property Management

## AWARDS

- Chapter 47 IRWA Professional of the Year 1993, 2000

## MEMBERSHIPS AND LEADERSHIP

- International Right of Way Association Member
- American Public Works Association
- Association of Women in Water, Energy, and Environment
- Association of Water Agencies
- Three Times Past President and International Director of Chapter 47 IRWA
- Current Director of IRWA Chapter 47
- RW Consultant’s Council

## LILLIAN D. JEWELL

### PRESIDENT & MANAGING SENIOR ASSOCIATE

Lillian Jewell has been the Managing Senior Associate of Hamner, Jewell & Associates since 1990, and since 1979 has spent her entire career in real estate. Ms. Jewell has functioned in a primary role in residential, commercial, and agricultural land negotiations and acquisitions for cities, counties, special districts, water agencies, utilities, and redevelopment agencies spanning from San Diego County to the northern portions of the Central Coast, Central Valley, and the Silicon Valley. Prior projects managed have included federally funded freeway interchange projects, the acquisition of sites for federally funded transportation centers, Metrolink stations, and transit maintenance facility sites, as well as several park acquisitions, many roadway and public trail projects. She also managed the acquisition and relocation services in conjunction with approximately 200 parcel acquisitions for the California High Speed Rail Project.

Over the years she has had extensive specialized training in the governmental real estate sector through professional courses and seminars offered by the International Right of Way Association, Caltrans, FHWA, FRA, HUD, CRLA (continuing legal education) and through the Ventura Center for Dispute Resolution. Courses have also included Understanding Environmental Contamination in Real Estate Transactions. Ms. Jewell has a lengthy resume of experience in providing acquisitions, sales of excess lands, and interim property management in conjunction with transportation, public works, housing, and redevelopment projects. She is a “hands-on” manager who closely monitors project progress and maintains direct relationships with our clients and project teams.

### THOROUGHLY VERSED IN:

- ▶ Federal Uniform Act
- ▶ State Government Code
- ▶ Eminent domain requirements
- ▶ Caltrans policies and procedures
- ▶ Organizational leadership and project management
- ▶ Drafting relocation guidelines, plans, and cost estimates
- ▶ Central Coast, Central Valley, and other California real estate

### TYPES OF PROJECTS MANAGED:

- ▶ Fee purchases of vacant and improved properties
- ▶ Easement acquisition for pipelines and street widening
- ▶ Sidewalk and bike path projects
- ▶ Project planning, budgetary estimates and right of way data sheets
- ▶ Securing rights of entry
- ▶ Relocation Assistance
- ▶ Freeway interchange projects
- ▶ Acquisition of sites for federally funded transportation
- ▶ Transit maintenance facility sites
- ▶ Park acquisitions
- ▶ Roadways and bridges





## LICENSES

California Licensed Real Estate  
Broker: DRE #01406880

## EDUCATION

B.S. | Political Science,  
California Polytechnic State University San Luis  
Obispo

## TRAINING

Numerous IRWA Courses, including:

- Course 100 – Land Acquisition
- Course 103 – Ethics and the Right of Way Profession
- Course 200 – Real Estate Negotiation
- Course 203 – Alternative Dispute Resolution
- Course 213 – Conflict Management
- Course 400 – Real Estate Appraisal
- Course 403 – Easement Valuation
- Course 421 – Valuation of Partial Acquisitions
- Course 600 – Environmental Awareness
- Course 603 – Environmental Contamination in Real Estate
- Course 604 – Environmental Due Diligence & Contamination
- Course 700 – Property/Asset Management
- Course 701 – Property/Asset Management Leasing
- Course 703 – Advanced Asset Management
- Course 800 – Real Estate Law
- Course 802 – Legal Aspects of Easements
- Course 900 – Real Estate Engineering
- Course 901 – Engineering Plan Development & Application
- Course 902 – Property Descriptions

Additional California DRE Courses, including:

- CA Real Estate Principles
- CA Real Estate Practices
- CA Real Estate Law and Ethics
- CA Real Estate Management & Supervision
- CA Commercial Real Estate

FHWA Acquisition & Relocation Assistance  
Workshop

Government Performance Metrics & Value  
Management, CSAC Institute

Certified Creative Negotiator & Advanced Conflict  
Resolution, Mobus Creative Negotiating

## MEMBERSHIP & LEADERSHIP

- IRWA, Chapter 47 Director
- IRWA, Chapter 47 Current Secretary



## SHAUNA DRAGOMIR

**SR/WA, R/W-AMC**

### SENIOR ASSOCIATE I

Shauna Dragomir joined Hamner, Jewell & Associates with over 25 years of program and project management experience in the public and private sectors, with a primary focus on government real estate services including local government real property asset management, public rights of way and infrastructure, and commercial real estate. Shauna has managed government real estate projects and property assets throughout San Luis Obispo County and Santa Barbara County for a vast array of departments and is highly experienced with full-cycle project management from inception to completion, including project planning and budget estimating, schedule development, and tracking timelines and to successfully complete deliverables. Her extensive local real estate market knowledge has made her proficient in determining, analyzing, interpreting, and successfully negotiating fair market value for acquisition of land and public property rights. She has a keen eye for detail and is well-versed in contract dynamics, government regulations, and drafting/reviewing purchase and sales contracts, deeds, easements, leases, licenses, escrow instructions, and accompanying agreements to facilitate project completion.

Ms. Dragomir is a licensed California Real Estate Broker, an IRWA-credentialed Senior Right of Way Professional (SR/WA), and Right of Way Asset Manager (R/W-AMC). Shauna's corporate operations, marketing, and business development experience in the private civil engineering sector has boosted her ability to manage projects large and small, plus assemble and manage cross-functional teams and subconsultant deliverables and ensure efficient, value-added, innovative solutions are provided to her clients.

### THOROUGHLY VERSED IN:

- ▶ Organizational Leadership and Project Management
- ▶ California Government Code
- ▶ California Streets & Highways Code
- ▶ California Water Code
- ▶ Local Municipal Codes
- ▶ Code of Federal Regulations
- ▶ California Code of Civil Procedures and Civil Code
- ▶ Federal Uniform Act and Eminent Domain Requirements
- ▶ Uniform Standards of Professional Appraisal Practice
- ▶ California Central Coast Real Estate Market Knowledge

### TYPES OF PROJECTS:

- ▶ Local Government Agency Projects and Asset Management
- ▶ Disaster Recovery, Emergency Management, Facilities, and Logistics
- ▶ Revenue and Acquisition Facility and Ground Leases
- ▶ Fee Purchases of Vacant and Improved Properties
- ▶ Excess ROW Disposition by Sale, Quitclaim, Exchange, and Vacation
- ▶ Full and Partial Acquisition Valuations, Broker Value Opinions
- ▶ Road and Public Utility Easement Vacations
- ▶ Rights of Entry, Encroachment, Construction, Access, and Maintenance Easements

## Exhibit C: Business Information

Length of time your firm has been in business:	47
Length of time at current location:	15 years
List types and business license number(s):	California Business License Number: C1475706, Incorporated 1/22/1990  C-10 Contractor's License Number: 970186, Exp. February 29, 2024
California State Contractor's License number:	970186
Names and titles of all officers of the firm:	Mike Cannon, President Bob Stets, Legal Counsel Karen Morris, COO Larry Kraemer, Secretary
Is your firm a sole proprietorship doing business under a different name? If yes, please indicate sole proprietorship name and the name you are doing business under:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Please indicate your Federal Tax Number:	77-0246249
Is your firm incorporated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Name and remittance address that will appear on invoices:	Cannon Corporation CannonCorp_InvoiceCapture@conkursolutions.com
Physical Address:	1050 Southwood Drive San Luis Obispo, CA 93401

## Exhibit D: Additions, Deletions and/or Exceptions

Please state any and all Additions, Deletions and Exceptions that you are taking to any portion of this proposal. If not addressed below, then Cambria Community Services District assumes that the vendor will adhere to all terms and conditions listed.

Certain services, described below, that may accompany a project of this type are excluded from this scope of work at this time and may be added to our scope of work on a time and materials basis as deemed necessary by CCSD:

- CCSD will provide timely delivery of all pertinent record information relative to the project.
- Cannon is not responsible and cannot be held accountable for the accuracy of as-builts or record drawings provided by the agencies or utility providers.
- As this proposal has been prepared without the benefit of a current title reports, it is assumed that there is a sufficient amount of available record information to adequately identify the location of the boundaries and encumbrances of the subject property. Additional work resulting from patent or latent boundary ambiguities or a lack of available records may constitute an additional work effort that is not covered within this scope of services.
- Hazardous materials investigation and remediation is excluded.
- Public outreach is excluded.
- CCSD will pay directly all necessary permitting and plan check fees with all permitting and plan approval agencies.
- Items not specifically identified in the scope of service sections of this proposal are to be excluded and will be considered additional services. Additional work will be billed on a Time and Materials basis or as an addendum with prior written authorization from CCSD.

### Assumptions

- CCSD will be responsible for paying any associated filing fees and for arranging for publication of the NOI in the local newspaper.
- CCSD will post the NOI and public review draft IS/MND on the CCSD website.
- SWCA can assist with filing the NOD at the San Luis Obispo County Clerk Recorder's Office and State Clearinghouse; however, we assume the CCSD will be responsible for paying any associated filing fees and CDFW environmental filing fees.

### Bio Resources / Permitting

- The initial constraints analysis assumes email correspondence and virtual meetings with Cannon and CCSD to evaluate and determine appropriate alignment/method.
- No protocol-level surveys for listed species are included as part of the biological assessment.
- A CDFW SAA, Corps NWP and RWQCB WQC permits will be required for the project.
- The Corps NWP process assumes that formal Section 7 consultation will be required for potential take of the California red-legged frog.
- This scope assumes that the existing CRLF Programmatic Biological Opinion from USFWS can be used to facilitate the Section 7 consultation. As such, a standalone Biological Assessment should not be necessary.
- The CCSD will be responsible for direct payment of all permitting fees, as necessary.

### Cultural Resources

- This scope of work does not include formal evaluation of eligibility for either the National Register of Historic Places (NRHP) or California Register of Historical Resources (CRHR) for identified archaeological resources.
- No built environment inventory is required at this time.
- Three rounds of review will be required for all report; additional reviews will require an amended budget.
- One cultural report will be prepared for the project; no reports will be required specific to the State Parks and or USACE.
- Up to two archaeological resources are within the project area and documentation will be updated as needed. If more archaeological resources are within the project area, a change order may be required to officially report on them.



## ADDENDUM NUMBER 1 TO THE BID DOCUMENTS

Amendment Date: **March 16, 2023**

**BID DOCUMENT NUMBER 11/12-2023-02**

NOTICE INVITING PROPOSALS FOR DESIGN AND ENGINEERING SERVICES FOR THE WATER AND WASTEWATER PIPELINE REPLACEMENT PROJECT

A. This Addendum shall be considered part of the bid documents for the above-mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original bid documents, this Addendum shall govern and take precedence. **BIDDERS MUST SIGN THE ADDEDNDUM AND SUBMIT IT WITH THEIR BIDS.**

B. Bidders are hereby notified that they shall make any necessary adjustments in their estimates as a result of this Addendum. It will be construed that each bidder's proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

Except as described below, the original bid document remains unchanged. The bid documents are modified and/or clarified, as follows:

Table 1: Project Specific Dates have changed to the following:

Description	Date
Release of RFP to Firms	2/16/2023
Deadline for Written Letter of Intent and Questions Regarding RFP	4/4/2023
Response to Written Questions Regarding RFP	4/7/2023
Proposal Due Date	4/14/2023
Proposal Review (and Possible Short List)	4/28/2023
Firm Interviews (if Applicable)	Week of 5/1/2023
Firm Recommendations	5/12/2023
Contract Approval and Approximate Start Date	TBD

BIDDER MUST ACKNOWLEDGE THIS AMENDMENT BY SIGNING BELOW AND ATTACHING THE SIGNED ADDENDUM TO THE BID FORM:

Company Name Cannon

Signature 

Contact Person Larry Kraemer

Date April 21, 2023

# ADDENDUM NUMBER 1 TO THE BID DOCUMENTS

Amendment Date: **March 22, 2023**

## BID DOCUMENT NUMBER 11/12-2023-02

NOTICE INVITING PROPOSALS FOR DESIGN AND ENGINEERING SERVICES FOR THE WATER AND WASTEWATER PIPELINE REPLACEMENT PROJECT

- A. This Addendum shall be considered part of the bid documents for the above-mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original bid documents, this Addendum shall govern and take precedence. **BIDDERS MUST SIGN THE ADDEDNDUM AND SUBMIT IT WITH THEIR BIDS.**
- B. Bidders are hereby notified that they shall make any necessary adjustments in their estimates as a result of this Addendum. It will be construed that each bidder's proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

Except as described below, the original bid document remains unchanged. The bid documents are modified and/or clarified, as follows:

**Exhibit E: Consultant Services Agreement (attached below)**

BIDDER MUST ACKNOWLEDGE THIS AMENDMENT BY SIGNING BELOW AND ATTACHING THE SIGNED ADDENDUM TO THE BID FORM:

Company Name Cannon

Signature 

Contact Person Larry Kraemer

Date April 21, 2023

# ADDENDUM NUMBER 1 TO THE BID DOCUMENTS

Amendment Date: April 7<sup>th</sup>, 2023

## BID DOCUMENT NUMBER 11/12-2023-02

NOTICE INVITING PROPOSALS FOR DESIGN AND ENGINEERING SERVICES FOR THE WATER AND WASTEWATER PIPELINE REPLACEMENT PROJECT

A. This Addendum shall be considered part of the bid documents for the above-mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original bid documents, this Addendum shall govern and take precedence. **BIDDERS MUST SIGN THE ADDEDNDUM AND SUBMIT IT WITH THEIR BIDS.**

B. Bidders are hereby notified that they shall make any necessary adjustments in their estimates as a result of this Addendum. It will be construed that each bidder's proposal is submitted with full knowledge of all modifications and supplemental data specified herein.


Except as described below, the original bid document remains unchanged. The bid documents are modified and/or clarified, as follows:

**SECTION II A.** – “The proposal shall have a page limiting of 20 pages including appendices, tabs and cover” **has been removed.**

**APPENDIX E has been replaced** by a Professional Services Agreement.

BIDDER MUST ACKNOWLEDGE THIS AMENDMENT BY SIGNING BELOW AND ATTACHING THE SIGNED ADDENDUM TO THE BID FORM:

Company Name Cannon

Signature 

Contact Person Larry Kraemer

Date April 21, 2023



# ADDENDUM NUMBER 1 TO THE BID DOCUMENTS

Amendment Date: **April 13, 2023**

## BID DOCUMENT NUMBER 11/12-2023-02

NOTICE INVITING PROPOSALS FOR DESIGN AND ENGINEERING SERVICES FOR THE WATER AND WASTEWATER PIPELINE REPLACEMENT PROJECT

A. This Addendum shall be considered part of the bid documents for the above-mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original bid documents, this Addendum shall govern and take precedence. **BIDDERS MUST SIGN THE ADDEDNDUM AND SUBMIT IT WITH THEIR BIDS.**

B. Bidders are hereby notified that they shall make any necessary adjustments in their estimates as a result of this Addendum. It will be construed that each bidder's proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

Except as described below, the original bid document remains unchanged. The bid documents are modified and/or clarified, as follows:

Table 1: Project Specific Dates have changed to the following:

Description	Date
Release of RFP to Firms	2/16/2023
Deadline for Written Letter of Intent and Questions Regarding RFP	4/4/2023
Response to Written Questions Regarding RFP	4/7/2023
<b>Proposal Due Date</b>	<b>4/25/2023</b>
Proposal Review (and Possible Short List)	4/28/2023
Firm Interviews (if Applicable)	Week of 5/1/2023
Firm Recommendations	5/12/2023
Contract Approval and Approximate Start Date	TBD

BIDDER MUST ACKNOWLEDGE THIS AMENDMENT BY SIGNING BELOW AND ATTACHING THE SIGNED ADDENDUM TO THE BID FORM:

Company Name Cannon

Signature 

Contact Person Larry Kraemer

Date April 21, 2023





**Cannon**  
1050 Southwood Drive  
San Luis Obispo, CA 93401  
805.544.7407



