

**RESOLUTION NO. 5258**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SOLEDAD  
APPROVING A TASK ORDER WITH HARRIS & ASSOCIATES IN THE AMOUNT OF  
\$246,850 FOR CONSTRUCTION MANAGEMENT, MATERIALS TESTING AND  
DESIGN SUPPORT FOR THE CITY'S RECLAIMED WASTEWATER  
TRANSMISSION PIPELINE PROJECT AND AUTHORIZING THE INTERIM CITY  
MANAGER TO EXECUTE SAID TASK ORDER ON BEHALF OF THE CITY OF  
SOLEDAD**

**WHEREAS**, the City of Soledad desires to produce and utilize reclaimed wastewater, wherever possible and practical, to offset use of and thereby conserve groundwater; and

**WHEREAS**, on March 6, 2013, Council authorized the City to accept a Proposition 84 grant from the CA Department of Water Resources with the City as the lead agency for the administration of the grant; and

**WHEREAS**, on January 6, 2016, Council authorized a Task Order with Harris and Associates in the amount of \$140,471 for Task Order #32 - *Final Design* of this project; and

**WHEREAS**, the City formally advertised, received and opened sealed bids for this prevailing wage Public Works project on Thursday, November 10, 2016; and

**WHEREAS**, this project requires construction management and design support services of all work between the contractor and the City; and

**WHEREAS**, Harris & Associates has submitted a Task Order #55, which is based on a Time and Materials, not-to-exceed \$246,850 to provide Construction Management, Materials Testing and Design Support Services; and

**WHEREAS**, funding for this project was budgeted for and will be paid from Water Operation Funds; and

**WHEREAS**, the proposed Construction Management Fee amount is a higher percentage of the construction costs than typical; however this is a more complex project with the Construction Management Inspectors subject to prevailing wage and the Engineering hourly rate for the consultants in the Monterey area are ever increasing.

**NOW THEREFORE BE IT RESOLVED**, by the City Council of the City of Soledad, that the "Task Order with Harris & Associates for Construction Management and Design Support Services of the City's Reclaimed Wastewater Transmission Pipeline Project" in the amount of \$246,850, a copy of which is attached hereto as **Exhibit A** and by reference incorporated herein, is hereby approved and the Interim City Manager is hereby authorized and directed to execute the same on behalf of the City of Soledad.


**PASSED AND ADOPTED** by the City Council of the City of Soledad at a regular meeting duly held on the 7th of December, 2016 by the following vote:

**AYES**, and in favor thereof, Councilmembers: Carla A. Stewart, Mayor Pro Tem Alejandro Chavez, Christopher K. Bourke, Anna M. Velazquez, and Mayor Fred J. Ledesma

NOES, Councilmembers: None

ABSTAIN, Councilmembers: None

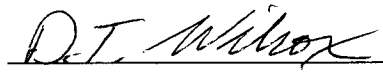
ABSENT, Councilmembers: None



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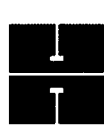
FRED J. LEDESMA, Mayor

ATTEST:



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DONALD T. WILCOX, Interim City Clerk



November 17, 2016

Don Wilcox, Public Works Director  
City of Soledad  
P.O. Box 156  
Soledad, CA 93960

**Subject: Scope and Fee for Construction Management and Design Support  
Services for the Reclaimed Wastewater Transmission Line**  
Engineering Contract - Task Order #55

**I. PROJECT DESCRIPTION.**

Harris & Associates (Harris) recently completed the Construction Documents for the City of Soledad's (City) Reclaimed Wastewater (RW) Transmission Pipeline Project. We are now ready to assist the City during the construction and post construction phases by providing engineering services during construction and construction management services.

Construction of the transmission pipeline is expected to take place from December 2016 to April 2017, with closeout of the project occurring in May 2017. The constructed pipeline will convey reclaimed/recycled wastewater from the City's Wastewater Reclamation Facility (WRF) to landscaping in the City's right-of-way along Front Street, San Vicente Road, Gabilan Drive, West Street, as well as to Veteran's Memorial Park. The pipeline will also serve as the backbone for transmission of reclaimed wastewater to other irrigation areas throughout the City after completion of the future distribution phase.

Base bid construction for the RW Transmission Pipeline Project will include open cut construction of over 3,000 linear feet of new piping, bore and jack installation beneath a Union Pacific Railroad Crossing, connections to existing reclaimed wastewater piping, cross connection testing and disconnections between reclaimed wastewater and potable water, and installation of a hypochlorite residual analyzer for the WRF service water and reclaimed wastewater systems.

## II. DESIGN TEAM

**Frank Lopez, PE**, will be the Project Director overseeing both the Design Team and Construction Management Team. He has been involved with this project prior to the preliminary design phase and was the Project Director for the preliminary and final design phases. He will be involved in all communication with the City, will attend regular meetings with the City, and will keep the City updated on the schedule, budget, and any issues that may arise during construction.

**Jasmine Cuffee, PE**, will provide technical assistance as needed and QA/QC review of the record drawings, also QA/QC for any design revisions that may be required. Jasmine has more than 20 years of design and management experience with Harris and has been involved with this project since the preliminary design phase.

**Kurt Maire, PE**, will be the Design Team Project Manager. He has over eleven years of experience designing and managing similar pipeline projects. Kurt also managed the preliminary design and final design phases of this project. He will oversee the design services during construction, review contractor submittals, and address any technical issues that may come up during construction.

**Leo Barajas, CESSWI, QSP**, will be the Design Tech assisting with submittal reviews, responding to RFIs, site visits, and preparation of record drawings.

**Bonneau Dickson, PE**, will be Harris' subconsultant, utilized as needed to provide recommendations concerning the mechanical design at the WRF. Bonneau is a pump station guru with decades of pump station and pipeline design experience. He determined during the preliminary design phase of this project that the existing plant service water pumps and storage could be utilized for the reclaimed wastewater system, and that a new pump station and storage facility would not be required.

**SA Engineering**, will be Harris' subconsultant assisting with design services during construction for items related to electrical, instrumentation, and SCADA upgrades at the WRF. They prepared the design of the electrical and instrumentation improvements for phase 2 of the project. They will review contractor submittals and respond to RFIs pertaining to the electrical and instrumentation design, attend the pre-construction meeting, and perform a site inspection.

### III. CONSTRUCTION MANAGEMENT TEAM

**Tim O'Halloran, PE**, will be the Construction Manager. Tim brings over 28 years of experience including 15 years with Caltrans in construction management, Tim has spent the past 13 years as the City of Seaside City Engineer/Public Works Services Manager which included project management and engineering of infrastructure projects including roads, bridges, water, wastewater, public facilities, and development of capital Improvement Programs.

**Tom Hyun**, will be the lead Inspector. Tom has over 30 years of experience as a construction inspector. Tom is proficient in all aspects of construction inspection. Tom is a registered construction inspector with the State of California and has expertise in water and wastewater construction, signal and lighting construction and highway construction including paving.

**Leo Barajas, CESSWI, QSP**, will serve as an assistant Inspector as well as perform oversight of the contractors Stormwater Pollution Prevention Plan (SWPPP).

### IV. SCOPE OF WORK

The Reclaimed Wastewater Transmission Line Project has been broken into three phases:

1. Preliminary Design (Task Order 19, completed October 2015)
2. Final Design (Task Order 32, completed November 2016)
3. Construction and Post-Construction Services

This task order includes work for Phase 3, Construction and Post Construction Services. Harris and our subconsultants' will provide the following services under this Task Order:



Task Description	Our Approach	Deliverables
<b>1.0 Project Administration</b>		
1.1 Project Coordination and Meetings	Our Project Director, Frank Lopez, will continue to meet with the City on a regular bases and will discuss and coordinate concerning project Construction.	N/A
1.2 Monthly Progress Reports	A brief progress report will accompany each monthly Harris invoice. It will discuss budget and schedule status, issues resolved and unresolved, and "next steps."	Monthly progress report.
<b>2.0 Design Services During Construction</b>		
2.1 Preconstruction Meeting	Design team members will attend the preconstruction meeting scheduled by the City.	N/A
2.2 Review Shop Drawings and Contractor Submittals	Design team members will review all contractor submittals, provide comments, and make recommendations to the City.	Written review/evaluation of submittals.
2.3 Change Order Assistance	If required, the design team will provide the City with the necessary documentation for change order processing.	Written response with direction and/or recommendations
2.4 Field Visits	The design team will make necessary site visits during construction to discuss any required revisions to design, to inspect the construction, and to provide punch list items (2 field visits budgeted)	Meeting notes, design revisions, if necessary.
2.5 Answer Contractor RFIs and CM Questions	The design team will respond to questions and RFIs as they come up during the construction phase of the project.	Written responses to questions.
2.6 Prepare Record Drawings	After construction is completed, Harris will revise the project plans based on Construction Management and Contractor markups and provide record drawings in PDF and Auto CAD format, as well as hard copies to the City.	Bond or Mylar and electronic copies of Record Drawings.
<b>3.0 Construction Management</b>		
3.1 Preconstruction	Construction management team members will conduct the preconstruction meeting to coordinate with the selected contractor.	Meeting notes.



Task Description	Our Approach	Deliverables
3.2 Construction Management and Inspection Services	Project Administration including preparation of progress pay estimates, preparation of contract change orders, and documentation of construction progress, daily quality control inspection and measurement and tracking of quantities of work completed.  Coordination of Materials Testing	Progress reports, Daily diaries, quantity records, materials testing information.
3.3 Project Closeout	Oversee completion of As-built drawings, preparation of final Pay Estimate.	As-Built drawings.

Our level of effort (on an "hourly not-to-exceed" basis) and assumptions are shown in the attached Exhibit A. Additional efforts unforeseen at the authorizing of this task order will be provided under a subsequent authorization.

Please contact Frank Lopez at (831) 233-9242 with any questions on our scope or fee.

Regards,  
HARRIS & ASSOCIATES, Inc.



Jasmine Cuffee, PE  
Director, Engineering Services  
Manager of Civil Design

HARRIS & ASSOCIATES, Inc.



Frank S. Lopez, PE, QSD, CFM  
Project Director

Accepted:

\_\_\_\_\_  
By: City of Soledad

\_\_\_\_\_  
Date

CC Approved 12/07/16 Reso. 5258



Harris & Associates.

**CITY OF SOLEDAD  
RECLAIMED WASTEWATER TRANSMISSION PIPELINE  
CONSTRUCTION MANAGEMENT AND DESIGN SUPPORT**

TASK, PHASE, DESCRIPTION	STAFF					TOTALS
	Project Director F Lopez HOURS	PD QA/QC J Cuffee HOURS	Project Manager K Maire HOURS	Design Engineer L Barajas HOURS	Clerical HOURS	
<b>DESIGN SERVICES DURING CONSTRUCTION (DSDC)</b>						
<b>1.0 PROJECT ADMINISTRATION</b>						
1.1 Project Management and Monthly Progress Reports	12		10		2	
<b>SUBTOTAL HOURS</b>	<b>12</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>2</b>	<b>24</b>
<b>SUBTOTAL DOLLARS</b>	<b>\$2,280</b>	<b>\$0</b>	<b>\$1,650</b>	<b>\$0</b>	<b>\$190</b>	<b>\$4,120</b>
<b>2.0 DESIGN SUPPORT DURING CONSTRUCTION</b>						
2.1 Pre Construction Meeting	2		6	3	1	
2.2 Construction Meetings (4 budgeted, one person)	2		6	4		
2.3 Submittal Reviews (Assumes 25 Submittals)		2	20	16		
2.4 Design Clarifications and RFI Responses (Assumes 10 RFIs)		2	16	4		
2.5 Site Visits/ Inspections (2 budgeted)	2		8	6		
2.6 Preparation of Record Drawings		4	8	32		
2.7 Caltrans Coordination			4	2	1	
2.8 UPRR Coordination			4	2	1	
<b>SUBTOTAL HOURS</b>	<b>6</b>	<b>8</b>	<b>72</b>	<b>69</b>	<b>3</b>	<b>158</b>
<b>SUBTOTAL DOLLARS</b>	<b>\$1,140</b>	<b>\$1,680</b>	<b>\$11,880</b>	<b>\$8,970</b>	<b>\$285</b>	<b>\$23,955</b>
<b>HARRIS DESIGN HOURS AND COST</b>						
HOURS PER POSITION	18	8	82	69	5	
HOURLY RATE (TYPICAL)	\$190	\$210	\$165	\$130	\$95	
<b>HARRIS (Design) SUBTOTAL COST</b>	<b>\$3,420</b>	<b>\$1,680</b>	<b>\$13,530</b>	<b>\$8,970</b>	<b>\$475</b>	<b>\$28,075</b>
<b>3.0 CONSTRUCTION MANAGEMENT</b>						
3.1 Pre Construction	Refer to Construction Management Cost of Services Worksheet (Exhibit B)					\$6,650
3.2 Construction Management and Inspection Services						\$151,320
3.3 Project Closeout						\$6,840
<b>SUBTOTAL DOLLARS</b>						<b>\$164,810</b>
<b>A. SUBCONSULTANT COST - FIRM</b>	<b>ROLE</b>	<b>CODE</b>		<b>FEE</b>		
Bonneau Dickson	Mechanical Engineering	BD		\$1,000		
SA Engineering	Electrical Engineering	SA		\$8,060		
Pacific Crest Engineering	Materials Testing	PCE		\$40,000		
<b>SUBCONSULTANT TOTAL COST:</b>					<b>\$49,060</b>	
<b>SUBCONSULTANT MARK-UP (10%)</b>					<b>\$4,906</b>	
<b>B. TOTAL COST (NOT TO EXCEED):</b>					<b>Total :</b>	<b>\$246,851</b>

**ASSUMPTIONS:**

- Hours and fee may be renegotiated if the project is delayed by factors beyond Harris' control.
- The number of budgeted meetings and site visit will not exceed the numbers indicated in the above spreadsheet.
- The number of budgeted submittal reviews and RFI Responses will not exceed the numbers shown in the above spreadsheet.
- Refer to Exhibit B for level of effort for Construction Management and Inspection.

**EXHIBIT B**

**City of Soledad Reclaimed Wastewater Transmission Pipeline  
Construction Management Cost of Services Worksheet**



**Harris & Associates**

Project Schedule	2017											
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Calendar days	31	31	28	31	30	31	30	31	30	31	31	30
Work days	21	20	19	23	20	22	22	20	22	22	20	20
Hrs	168	160	152	184	160	168	176	160				
Preconstruction												
Construction Phase												
Closeout												

CM/RE	Staffing		
	Inspector #1 (PW)	Inspector #1 Non-PW)	Inspector #2 Admin
\$190	\$170	\$130	\$95

Task	Hours												Total Fee	
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		
<b>Preconstruction</b>														
CM/Resident Engineer	20													\$3,800.00
Admin/Document Control	30													\$2,850.00
<b>Preconstruction Subtotal</b>														<b>\$6,650.00</b>
<b>Construction</b>														
CM/Resident Engineer		60	50	50	50									\$39,900.00
Inspector (Prevailing Wage)		120	152	138	120									\$90,100.00
Inspector (Non-Prevailing Wage)		40	38	46	40									\$21,320.00
<b>Construction Subtotal</b>														<b>\$151,320.00</b>
<b>Close-out</b>														
CM/Resident Engineer						24								\$4,560.00
Admin/Document Control						24								\$2,280.00
<b>Close-out Subtotal</b>														<b>\$6,840.00</b>
<b>TOTAL HOURS =</b>	<b>50</b>	<b>220</b>	<b>240</b>	<b>234</b>	<b>210</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$164,810.00</b>

Note 1: This estimate is based on a construction schedule of 80 work days

**Exhibit C**

444 Airport Blvd, Suite 106  
Watsonville, CA 95076  
Phone: 831-722-9446  
Fax: 831-722-9158

November 18, 2016

Project No. 1683.1-M288A-B12

Tim O'Halloran, P.E., QSD  
Construction Manager  
Harris Associates, Inc.  
2 Salinas Street, Suite B  
Salinas, CA 93901

Subject: **Opinion of Probable Cost**  
Geotechnical Testing Services  
Reclaimed Wastewater Transmission Pipeline Project  
City of Soledad, California

Dear Mr. O'Halloran,

Pacific Crest Engineering Inc. (PCE) is pleased to provide you with Opinion of Probable Cost proposal for geotechnical testing services in conjunction with the above referenced project located in the city of Soledad, California.

**INTRODUCTION**

It is our understanding that there is 3,000 feet of water line to be placed with most of that in farm roads, about 300' of trenching under roadway in the city and about 430 feet in the Caltrans right of way. We have assumed testing of trench backfill and Class 2 AB will be required. Backfill is required to be 95% in improved areas and 90% in unimproved areas. The contract is for 80 working days.

Based upon this information provided by your office, we have developed an estimate of fees based on assumed time frames. However, the exact services shown and the scope of each task may change in reaction to the project schedule, changes in the design, construction issues, or other issues outside of our control which may occur. This includes weather issues, means and methods for completion of the work chosen by the Contractor, unforeseen site conditions, etc. In conjunction with a varying scope and extent of our services, the fees for our services may be less than or greater than those estimated in this OPC. The client will only be charged for the actual services performed, of course.

Based on our discussions with you we have assumed that our work scope will consist of an average of 2 to 6 hours per day of testing over the contract duration, compaction curves for the backfill soils, and a final report. Our services will be performed on a time and materials basis in accordance with our 2016 Schedule of Fees for prevailing wage projects

## OPINION OF PROBABLE COSTS

All work will be billed on a time and materials basis in accordance with our 2016 Standard Fee Schedule for prevailing wage work, attached herewith. Our Opinion of Probable Costs (OPC) to perform the geotechnical testing services described herein is as follows:

Task	Description	Estimated Hours	OPC
1	Compaction Testing @ \$115/hour	160-480	\$18,400 to \$55,200
2	Laboratory Testing – Compaction Curves	5	\$1,425
3	Project Review/Final Report	16-30	\$2,680 to \$5,025

TOTAL OPC \$22,505 to \$61,650.00

Therefore, our total OPC to provide the testing services described herein is estimated to range from \$22,505.00 to \$61,560.00. This preliminary opinion may vary due to the Contractor selected, equipment selected by the Contractor, weather, and other factors beyond our control. **Therefore, our fee may be more or less than the amount shown above.**

Please note that this fee includes performing all work in accordance with Prevailing Wage requirements. In performing his or her construction observation visits to the jobsite, the Consultant shall have no control over nor responsibility for the Contractor's means, methods, sequence, techniques or procedures in performing the Work. These are solely the responsibilities of the Contractor, who is responsible for complying with all health and safety precautions as required by any regulatory agencies.

To authorize our firm to provide these services, please issue a purchase order to our office as soon as possible.

We appreciate the opportunity to be of service and look forward to working with you on this project; if you have any questions concerning this cost estimate, please contact me at your convenience.

Very Truly Yours,

**PACIFIC CREST ENGINEERING INC.**



Elizabeth M. Mitchell  
President/Principal Geotechnical Engineer  
G.E. 2718, Exp. 12/31/16

Enclosure: 2016 Fee Schedule

