

**RESOLUTION NO. 5169**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SOLEDAD  
APPROVING AMENDMENT 1 TO TASK ORDER #32 FROM HARRIS &  
ASSOCIATES IN THE AMOUNT OF \$78,695 FOR UTILITY LOCATING SERVICES  
FOR THE CITY'S WASTEWATER EFFLUENT REUSE PROJECT – PHASE II**

**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 December 15, 2010, Council authorized submittal of a Proposition 84 grant application with Soledad as the lead agency to the CA Department of Water Resources (DWR) for an Integrated Regional Water Management (IRWM) grant for a reclaimed water delivery system project for agricultural and recreation areas in and near the City of Soledad; 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**, Council retained Harris and Associates to provide on-call engineering design, construction management and post construction services for Water Projects; and

**WHEREAS**, projects such as this pump station and underground pipeline project require three phases of engineering work: preliminary design, final detailed design and regulatory agency permitting; and construction management including post-construction document preparation; and

**WHEREAS**, on May 6, 2015, Council authorized a Task Order with Harris and Associates in the amount of \$83,880 for Task Order #19 - *Preliminary* Design of this project, after which Harris has submitted a preliminary design report and plans in October of 2015; 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**, as requested by the City, Harris has submitted Amendment #1 to Task Order #32 for Utility Locating Services, which if approved, along with already completed Task Order #19 for preliminary Design, completes the first two of three phases of engineering work necessary for this project; and

**WHEREAS**, funding for Amendment #1 to Task Order No. 32 will come from the IRWM Grant, with the City's match drawn from the Water Capital Fund.

**NOW THEREFORE, BE IT HEREBY RESOLVED**, by the City Council of the City of Soledad hereby approves Amendment #1 to Task Order #32 with Harris & Associates in the amount of \$78,695, a copy of which is attached hereto as Exhibit A and by reference incorporated herein.

**PASSED AND ADOPTED** by the City Council of the City of Soledad at a regular meeting duly held on the 4th day of May, 2016, by the following vote:

**AYES**, and in favor thereof, Councilmembers: Christopher K. Bourke, Richard J. Perez, Mayor Pro Tem Alejandro Chavez, , Patricia D. Stephens, and Mayor Fred J. Ledesma

NOES, Councilmembers:                      None

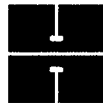
ABSTAIN, Councilmembers:                None

ABSENT, Councilmembers:                None

\_\_\_\_\_  
FRED J. LEDESMA, Mayor

ATTEST:

\_\_\_\_\_  
ADELA P. GONZALEZ, City Clerk



**Harris & Associates**<sup>SM</sup>

*Shaping the Future, One Project at a Time*<sup>SM</sup>

April 20, 2016  
Revised on May 9, 2016

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

**Subject: Scope and Fee for Locating Existing Reclaimed Wastewater Piping and Cross Connections on San Vicente Road and Gabilan Drive**  
Water Resources Engineering Contract - Task #32 Amendment 1

**I. PROJECT DESCRIPTION.**

Recent investigation performed by Harris & Associates (Harris) and the City of Soledad (City) into the existing reclaimed wastewater (RW) piping in San Vicente and Gabilan Drive has raised questions concerning what existing RW facilities are actually in place underground in the area. In November 2015 when Harris developed its scope for the design of the Reclaimed Wastewater Transmission Pipeline Project (Harris' Task Order 32), the City and Harris believed that the reclaimed wastewater piping was installed continuously in Gabilan Drive from West St to San Vicente Rd, then northward in San Vicente Rd to north of Vista De Soledad. It was also believed that there was one cross connection between this RW piping and the potable water system near the intersection of Gabilan Drive and West St. However, the City's recent field investigations and Harris' review of available record drawings has suggested that there may be additional cross connections between the potable water and the reclaimed wastewater piping in this area, also that the reclaimed wastewater piping may not have been continuously installed (i.e. there may be gaps between the existing RW pipe segments).

Different segments of this existing RW piping were installed by different developers at different times, there are several sets of record drawings that are not consistent with each other. It is also unknown whether or not pipe segments installed by the various contractors were connected to each other. Harris prepared the attached figure summarizing the expected RW facilities and cross connections, based on the available record drawings. This figure was prepared to assist City staff understand our anticipated scope and level of effort for this task order, but is probably not accurate, which is why there is a need for this task order.

Harris recently submitted a 65% design package for the Reclaimed Wastewater Transmission Pipeline Project. It is anticipated that this project will begin construction in the late summer or early fall of 2016. The project will install new RW transmission piping to connect the City's

Water Reclamation Facility (WRF) to the existing segments of RW piping in San Vicente Rd and Gabilan Drive described above.

For the public's health and safety, it is critical that all cross connections between the existing RW piping and potable water system are disconnected prior to putting the proposed RW transmission pipe into service. If an unknown cross connection is not disconnected prior to putting the RW system into service, then reclaimed wastewater from the WRF could contaminate a portion of the City's potable water system.

Additionally, for the RW transmission system to function effectively and convey reclaimed wastewater to irrigate the proposed areas, the existing RW pipe segments will need to be continuous without any gaps in piping. To avoid large change orders during construction of the RW Transmission Pipeline Project, any gaps in the existing RW piping should be determined during the design phase. If there are gaps in the existing piping, the design should be revised to call for new piping to connect the existing RW segments for a continuous system.

The purpose of this task order will be to locate, map, and perform closed circuit television inspection (CCTV) of the existing reclaimed water piping in San Vicente Rd and Gabilan Drive to verify the location of existing RW facilities, determine all cross connections between the existing RW piping and the potable water system and/or irrigation system, and determine if there are any gaps in the existing RW piping. This information will help the City and Harris develop a clear understanding of the existing RW facilities in place, at which point the Reclaimed Wastewater Transmission Pipeline Project design package can be revised as required as part of the previously provided Task Order 32.

Based on the available record drawings, it appears that there is an approximately 900 foot gap between existing pipe segments on San Vicente Rd, between Gabilan Drive and Saavedra St. If it is determined that this gap exists, then this task order will also provide topographic survey and utility locating in the area of the gap. The survey and utility locating will be used to facilitate the design of the additional piping required to connect the existing segments. The design of this additional piping will be additional effort as part of Harris' previous Task Order 32.

## II. SCOPE OF WORK

Harris will provide the following services:

Task Description	Our Approach	Deliverables
<b>1.0 Project Administration</b>		
1.1 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.
1.2 Field Kick-off Meeting	Prior starting field work, staff from Harris and our utility locating subconsultant, Subtronic, will meet with City staff on site to confirm the scope of work and clarify responsibilities of each party.	
1.3 Project Management	Harris will manage the project and serve as the point of contact between the City and its subconsultants.	
<b>2.0 Field Investigation</b>		
2.1 Utility Locating RW Piping and Cross Connections	<p>Our subconsultant, Subtronic, will locate the expected approx. 5,970 linear feet of RW main piping and its associated valves, as well as all valves on the adjacent potable water main, and cross connections between the reclaimed wastewater piping and potable water. See attached Subtronic Estimate 21155 for further information.</p> <p>A Harris staff member will be on site with our subconsultant for the majority of the RW pipe locating to provide direction and record field data.</p>	Summary Map in AutoCAD and PDF format.
2.2 CCTV	<p>Closed circuit television (CCTV) inspection of the expected approx. 3,500 linear feet existing RW piping on Gabilan Dr and San Vicente Rd will be performed by our subconsultant, Subtronic, to determine connection locations and the start and end points of each pipe segment. See Subtronic Estimate 21122 for more information.</p> <p>Harris staff will all review all the videos and provide recommendations.</p>	Videos in MPEG format and inspection logs in PDF format



Task Description	Our Approach	Deliverables
2.3 Potholing	Our sub-consultant, Subtronic, will pothole the existing RW piping under investigation and cross connections as required to verify locations. This proposal includes up to 10 potholes. See attached Subtronic Estimate 21147.	Pothole logs
<b>3.0 Survey and Utility Locating for Gap in Existing RW Pipe (as required)</b>		
3.1 Topographic Survey for expected Gap in existing RW Piping on San Vicente	If Subtronic’s field investigation determines that there is actually a gap in the existing RW piping on San Vicente, then our sub-consultant, Monterey Bay Engineers (MBE), will perform a topographic survey in the right of way for the gap area to facilitate the design of new piping. See attached MBE estimate for more information.	Survey information incorporated into AutoCAD file
3.2 Utility Locating for expected Gap in existing RW Piping on San Vicente	If a gap in the existing RW piping on San Vicente is discovered, then our sub-consultant, Subtronic, will locate all utilities in the right of way in the gap area to facilitate the design of new piping. Subtronic’s effort for this is included in their Estimate 21155, see attached.	Survey information incorporated into AutoCAD file

Our level of effort (on an “hourly not-to-exceed” basis) and assumptions are shown in the attached Exhibit B. Additional efforts (i.e. additional task items 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.



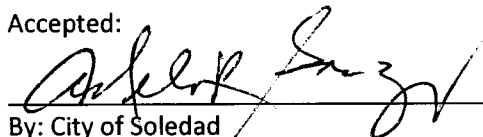
Jasmine Cuffee, PE  
Director, Engineering Services  
Manager of Civil Design

HARRIS & ASSOCIATES, Inc.



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

Accepted:

 \_\_\_\_\_ 5-10-16  
By: City of Soledad Date

Approved 05/04/16 by CC Reso. 5169  
Amount Revised 05/09/16



Harris & Associates.



AS-BUILT  
CONNECTION  
CITY LINE #40

- AS-BUILT SOURCES:
1. VISTA SOLEDAD PHASE 5 STREET IMPROVEMENTS, SANGO PIPELINES FIELD MARK-UP DATED JAN-2003.
  2. VISTA SOLEDAD OFFSITE IMPROVEMENTS DATED APR-2002.
  3. RANCHO SAN VICENTE SUBDIVISION DATED JAN-2007.
  4. VISTA SOLEDAD PHASE 2 IMPROVEMENTS.
  5. VISTA SOLEDAD STAGE 1 OFFSITE IMPROVEMENTS DATED 1988.
  6. CARLINA PLAZA STREET IMPROVEMENTS DATED FEB-2004.

DRAWN BY: A. BARAJAS  
 APPROVED BY: F. LOPEZ  
 NO SCALE | DATE: 4/12/16  
 SHEET 1 OF 1

CITY OF SOLEDAD  
 EXISTING RECLAIMED WATER LINE

Harris & Associates



**CITY OF SOLEDAD  
LOCATING EXISTING RW PIPING AND CROSS CONNECTIONS  
IN SAN VICENTE RD AND GABILAN DR**

TASK, PHASE, DESCRIPTION	STAFF			TOTALS
	Project Director F Lopez HOURS	Project Manager K Maire HOURS	Engineering Tech L Barajas HOURS	
<b>1 Project Administration</b>				
1.1 Monthly Progress Reports		1		
1.2 Field Kick-off Meeting (One Budgeted)	2		2	
1.3 Project Management	2	6		
<b>SUBTOTAL HOURS</b>	<b>4</b>	<b>7</b>	<b>2</b>	<b>13</b>
<b>SUBTOTAL DOLLARS</b>	<b>\$740</b>	<b>\$1,155</b>	<b>\$230</b>	<b>\$2,125</b>
<b>2 Field Investigation (Also See Subtronic Fees Below)</b>				
2.1 Locating RW Piping and Cross Connections	2	2	24	
2.2 CCTV		1	4	
2.3 Potholing		1	16	
<b>SUBTOTAL HOURS</b>	<b>2</b>	<b>4</b>	<b>44</b>	<b>50</b>
<b>SUBTOTAL DOLLARS</b>	<b>\$370</b>	<b>\$660</b>	<b>\$5,060</b>	<b>\$6,090</b>
<b>3 Survey and Utility Locating for Expected Gap in Existing RW Pipe (As Required)</b>				
Topographic Survey for Expected Gap Area (also see 3.1 MBE fee below)		2	2	
Utility Locating for Expected Gap Area (also see 3.2 Subtronic fee below)		2	2	
<b>SUBTOTAL HOURS</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>8</b>
<b>SUBTOTAL DOLLARS</b>	<b>\$0</b>	<b>\$660</b>	<b>\$480</b>	<b>\$1,120</b>
<b>A. HARRIS HOURS AND COST</b>				
HOURS PER POSITION	6	15	50	
HOURLY RATE (TYPICAL)	\$185	\$165	\$115	
<b>HARRIS SUBTOTAL COST</b>	<b>\$1,110</b>	<b>\$2,475</b>	<b>\$5,750</b>	<b>\$9,335</b>
<b>B. SUBCONSULTANT COST - FIRM</b>				
	<b>ROLE</b>	<b>CODE</b>		
Subtronic Corporation (Est. 21155)	Utility Locating	SUBT	\$16,615.00	
Subtronic Corporation (Est. 21122)	CCTV	SUBT	\$23,890.00	
Subtronic Corporation (Est. 21147)	Potholing	SUBT	\$10,063.50	
Monterey Bay Engineers, Inc (as required)	Topo Survey	MBE	\$4,000.00	
<b>SUBCONSULTANT TOTAL COST:</b>				<b>\$54,569</b>
<b>SUBCONSULTANT MARK-UP (10%)</b>				<b>\$5,457</b>
<b>C. TOTAL COST (NOT TO EXCEED):</b>				<b>\$69,360</b>

**ASSUMPTIONS:**

- Hours and fee may be renegotiated if the project is delayed by factors beyond Harris' control.
- Design of piping to close gaps between existing RW pipe segments not included in this task order.
- The number of budgeted meetings is indicated on the spreadsheet.
- The level of effort for field investigation is based on expected existing RW piping and cross connections shown in the attached figures. If the actual piping and cross connections is significantly different than what is expected, then additional effort may be required.