



# **Brelje & Race**

CONSULTING ENGINEERS

April 13, 2018

Andrew Wilt  
City of Santa Rosa  
Capital Projects Engineering  
69 Stony Circle  
Santa Rosa, CA 95401

**Subject: Los Alamos Trunk Replacement, Streamside Drive to Elaine Drive  
Environmental Review (CEQA) and Design Engineering Services  
Amendment No. 1  
Project Work Order No. A010017-2011-29  
B&R File No. 4247.00**

Dear Andy:

Throughout the course of the project, we have been engaged with several items of work that are either an expansion of a task included in our agreement or are additional items of work that are beyond the originally defined scope. Following is a listing of those items with a brief description of the work that has been and /or still needs to be accomplished. Each item also has a fee listed, for which breakdowns are provided in the attached Task, Workhour and Cost Tabulation.

1. Additional Preliminary Design Alternative Workshop Meetings & Additional Study of Montgomery Drive Area: The work to produce a final Preliminary Design Report for the project portion followed a path and process that involved development and evaluation of many more alternatives than originally envisioned. Although this process included several additional rounds of meetings, presentations and comparison of the alternatives' pros and cons, the delivered product is robust and will serve as an excellent resource and framework for completing construction documents for future phases of the Los Alamos Trunk Sewer. (\$63,520)
2. Service Life Analysis, Arcadis Modeling Coordination & Data Review: Develop parameters for examining trunk sewer hydraulics and sizing needs over the entire service life of the pipe. Coordinate with City staff to have Arcadis perform additional modeling runs and evaluate output. (\$9,770)
3. Inverted Siphon Design & Cost Analysis: Develop new inverted siphon designs and cost comparisons for City consideration and incorporate approved design into Preliminary Design. (\$3,140)
4. Right-of-Entry Coordination for Preliminary Design Field Investigations: Arrange access across private properties for biological assessments, cultural resource assessments, and geotechnical explorations at creek crossing sites. (\$16,967.50)
5. CEQA Workplan Revision and Strategy Coordination: Develop strategy for modifying method of conducting CEQA Initial Study to Project Level for Segment 1 and Program Level for Segments 2, 3 and 4. Revise workplan to match new strategy. (CREDIT of \$14,220)



6. Additional and Unforeseen Geotechnical Work: Geotechnical exploration, testing and reporting to assess key areas of preferred alignment. (\$25,766)
7. Kathleen Court Boundary Work, Easement Encroachment Coordination and Community Development Agreement Meeting: Develop legal description and R-sheet exhibits for property along preferred alignment at creek crossing with existing structure that encroaches into existing sewer easement. Assist City with defining terms of development agreement with property owner. (\$6,355)
8. Design Refinement Based on Additional Survey & Record Information: Refine design for Segment 1 to incorporate and address recent supplementary surveys and record information provided by City at 75% design review meeting. (\$5,450)
9. ADA Deficiency Identification, Corrections, and Additional Curb Ramp Replacements: Approximately 15 mid-block crosswalks and pedestrian ramps (originally constructed between 2001 and 2004) and located along Quigg Drive do not appear to be in compliance with current ADA standards and will need to be improved as part of this project. Work will include field evaluation to identify the magnitude of non-compliance and field confirmation of the proposed design implementation prior to plan finalization. Any supplemental topographic surveys deemed necessary are assumed to be provided by the City. (\$27,775)
10. Unforeseeable Delay Due to Right of Entry Acquisition & Additional Preliminary Design: Work under Tasks 3.04, 4.04, 4.05, 8 and 9 has now been delayed for a period of several years. The project fee budget as originally proposed utilized 2015 rates which have since increased by between \$10 and \$25 per hour for staff assigned to the project. This adjustment assumes that these Tasks will be completed no later than March 1, 2018, the expiration of our 2018 Rate Schedule. (\$9,330)

We hereby request that a Project Work Order Amendment be processed in the amount of \$93,854 (time and materials not-to exceed basis). A copy of our current Services Rate Schedule is enclosed. This amendment request preserves the original \$38,188 contingency for possible future unforeseen work such as additional easement acquisition assistance and also includes a credit of \$60,000 for direct Right-of-Way Agent services that we no longer anticipate providing.

The schedule for completion of the project has been impacted by several factors, most notably the process to acquire the necessary right-of-entries for preliminary design surveys and exploratory work, easements for construction of Segment 1, and any remaining effort to create legal descriptions for the other Segments of the project that will be constructed at a later date. Since it is difficult to establish accurate time frames for these Tasks, we suggest the following milestone dates.

May 17, 2018: Board of Public Utilities adopts CEQA Initial Study / Mitigated Negative Declaration.

June 1, 2018: Submit draft easement legal descriptions for Segment 1.

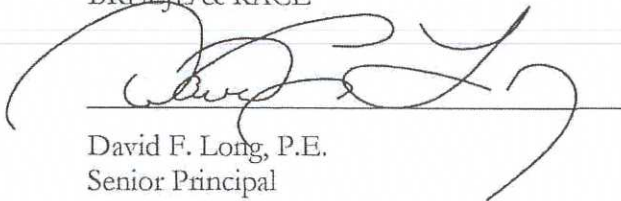
July 15, 2018: Submit 90% progress package

December 31, 2018: Right-of-Way acquisition for Segment 1 (assumes 6 month timespan for appraisals and negotiations beginning June 1, 2018).

February 1, 2019: Submit 100% documents package and final easement legal descriptions for Segment 1. This submittal will be considered suitable for use in bidding the project.

Very truly yours,

BRELJE & RACE



David F. Long, P.E.  
Senior Principal



**Los Alamos Trunk Replacement, Streamside Drive to Elaine Drive**

Project Work Order No. A010017-2011-29

City of Santa Rosa

Amendment No. 1

**TASK, WORK HOUR AND COST TABULATION**

April 13, 2018

TASK	HOURS	RATE	SUBTOTAL
<b>1 Additional Preliminary Design Alternative Workshop Meetings &amp; Additional Study of Montgomery Drive Area (2016 Rate Schedule)</b>			
Senior Principal, David Long	28	195	\$5,460.00
Senior Engineer, Ben Bryant / Brent Beazor	316	155	\$48,980.00
Senior Planner, Justin Witt	10	140	\$1,400.00
CAD Technician	64	120	\$7,680.00
Task Sub-Total			<b>\$63,520.00</b>
<b>2 Service Life Analysis, Arcadis Modeling Coordination &amp; Data Review (2016 Rate Schedule)</b>			
Senior Principal, David Long	4	195	\$780.00
Senior Engineer, Ben Bryant / Brent Beazor	58	155	\$8,990.00
Task Sub-Total			<b>\$9,770.00</b>
<b>3 Inverted Siphon Design &amp; Cost Analysis (2016 Rate Schedule)</b>			
Senior Principal, David Long	4	195	\$780.00
Senior Engineer, Ben Bryant / Brent Beazor	8	155	\$1,240.00
Engineer, Dyanna Stetina	8	140	\$1,120.00
Task Sub-Total			<b>\$3,140.00</b>
<b>4 Right-of-Entry Coordination for Preliminary Design Field Investigations (2016 Rate Schedule)</b>			
Senior Principal, David Long	2	195	\$390.00
Senior Engineer, Ben Bryant	82	155	\$12,710.00
Senior Surveyor, Joe Story	14	150	\$2,100.00
Survey Technician, Scott Simkins	2	120	\$240.00
Two-man Field Survey Crew	6.5	235	\$1,527.50
Task Sub-Total			<b>\$16,968.00</b>
<b>5 CEQA Workplan Revision and Strategy Coordination (2016 Rate Schedule)</b>			
Senior Principal, David Long	8	195	\$1,560.00
Senior Engineer, Ben Bryant / Brent Beazor	12	155	\$1,860.00
Senior Planner, Justin Witt	24	140	\$3,360.00
CEQA Segments 2-4 Program Level Analysis (CREDIT)			-\$21,000.00
Task Sub-Total			<b>-\$14,220.00</b>
<b>6 Additional and Unforeseen Geotechnical Work (2017 Rate Schedule)</b>			
Senior Principal, David Long	4	200	\$800.00
Senior Engineer, Ben Bryant / Brent Beazor	20	165	\$3,300.00
RGH Geotechnical Engineering Subconsultant	-	-	-
Prevailing Wage for Drilling Subcontractors	-	-	\$3,520.00
Alternative Drill Rig for Hard Rock Coring	-	-	\$8,593.86
Traffic Control for Melita Road Drilling	-	-	\$4,752.00
Private Utility Locator	-	-	\$917.40
County Permit Fees for Drilling	-	-	\$3,883.00
Task Sub-Total			<b>\$25,766.00</b>



<b>7 Kathleen Court Boundary Work, Easement Encroachment Coordination and Community Development Agreement Meeting (2017 Rate Schedule)</b>			
Senior Principal, David Long	4	200	\$800.00
Senior Engineer, Ben Bryant	16	165	\$2,640.00
Senior Surveyor, Joe Story	4	150	\$600.00
Engineer (Survey), John Navarro	6	150	\$900.00
Survey Technician, Scott Simkins	2	120	\$240.00
Two-man Field Survey Crew	5	235	\$1,175.00
<b>Task Sub-Total</b>			<b>\$6,355.00</b>
<b>8 Design Refinement Based on Additional Survey &amp; Record Information (2018 Rate Schedule)</b>			
Senior Principal, David Long	2	205	\$410.00
Senior Engineer, Ben Bryant	12	170	\$2,040.00
CAD Technician	24	125	\$3,000.00
<b>Task Sub-Total</b>			<b>\$5,450.00</b>
<b>9 ADA Deficiency Identification, Corrections, and Additional Curb Ramp Replacements (2018 Rate Schedule)</b>			
Senior Principal, David Long	8	205	\$1,640.00
Senior Engineer, Ben Bryant	24	170	\$4,080.00
Engineer	106	155	\$16,430.00
CAD Technician	45	125	\$5,625.00
<b>Task Sub-Total</b>			<b>\$27,775.00</b>
<b>10 Unforeseeable Delay Due to Right of Entry Acquisition &amp; Additional Preliminary Design (Remaining Hours Difference Between 2015 &amp; 2018 Rate Schedules) - Tasks 3.04, 4.04, 4.05, 8, 9</b>			
PERSONNEL	REMAINING HOURS	RATE INCREASE	SUBTOTAL
Senior Principal	40	10	\$400.00
Senior Engineer	140	25	\$3,500.00
Engineering Technician	50	15	\$750.00
CAD Technician	136	15	\$2,040.00
Senior Planner	72	20	\$1,440.00
Senior Surveyor	60	20	\$1,200.00
<b>Task Sub-Total</b>			<b>\$9,330.00</b>
<b>SUBTOTAL</b>			<b>\$153,854.00</b>
<b>RIGHT-OF-WAY AGENT CREDIT</b>			<b>-\$60,000.00</b>
<b>TOTAL REQUEST FOR AMENDMENT NO. 1</b>			<b>\$93,854.00</b>

## SERVICES RATE SCHEDULE EFFECTIVE MARCH 1, 2018

### PROFESSIONAL SERVICES

Senior Principal.....	\$205.00/hour
Senior Project Advisor .....	200.00/hour
Associate Principal.....	185.00/hour
Associate.....	170.00/hour
Senior Engineer.....	170.00/hour
Engineer.....	155.00/hour
Engineering Technician.....	130.00/hour
Senior Planner.....	155.00/hour
Planner.....	125.00/hour
Senior Surveyor.....	155.00/hour
Surveyor.....	135.00/hour
Survey Technician.....	125.00/hour
CAD Technician.....	125.00/hour
Construction Engineer.....	145.00/hour
Construction Technician 2.....	130.00/hour
Construction Technician 1.....	100.00/hour
Technical Writer.....	90.00/hour

**EXPERT WITNESS & MEDIATION SERVICES** \$500.00/hour

### FIELD SURVEYING

One-man Party (Including Survey Equipment & Vehicle)	\$185.00/hour
Two-man Party (Including Survey Equipment & Vehicle)	\$240.00/hour
Three-man Party (Including Survey Equipment & Vehicle)	\$300.00/hour

**CLERICAL SERVICES** \$75.00/hour

**OUTSIDE CONSULTANTS** Cost + 10% Handling Charge

**OUTSIDE PLOTTING AND REPRODUCTION** Cost + 10% Handling Charge

### IN-HOUSE PLOTTING

Vellum or Bond	\$8.00/sheet
Mylar	20.00/sheet

#### Note

Brelje & Race does not charge separately for many of the expenses that are traditionally recouped from the Client as "reimbursable". The hourly rates listed above are inclusive of all expenses for vehicle mileage, surveying materials, incidental copying services and computer hardware, software and other information technology costs.