

**AMENDMENT NO. 11 TO THE AGREEMENT
BETWEEN THE CITY OF SAN MATEO AND
STANTEC CONSULTING SERVICES INC FOR
FOR PROFESSIONAL SERVICES FOR THE BASINS 2 AND 3 COLLECTION SYSTEM IMPROVEMENTS,
PROJECT NO. 46S003
(\$15,599,986 *[Original Amount]* \$1,340,592 *[added amount]*)**

WHEREAS, the City of San Mateo ("City"), a municipal corporation of the State of California, and Stantec Consulting Services Inc. ("CONSULTANT"), entered into an Agreement for Basins 2 and 3 Collection System Improvements Project No. 46S003 ("Agreement") on April 26, 2016; and

WHEREAS, City and CONSULTANT wish to amend the Agreement to extend the completion date and add scope of this Agreement.

NOW, THEREFORE, the parties agree as follows:

1. Section 1 – Scope of Project of the Agreement is amended to reference "Exhibits A, A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, and A11". Exhibit A11 to the Agreement is attached and incorporated by reference.
2. Section 7 – Term, Progress and Completion of the Agreement is amended to reference "Exhibits B, B1, B2, B3, B4, B5, B6, B7 and B11". Exhibit B11 to the Agreement is attached and incorporated by reference.
3. Section 8 – Payment of the Agreement is amended to state "City agrees to pay CONSULTANT a fee based on verified time and materials not to exceed \$16,940,578. Requests for payments shall be itemized and correspond to the various items of work described in Exhibits A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 and A11 and shall be based on the rate and cost schedule set forth in Exhibits C1, C2, C3, C4, C5, C6, C7 and C11." Exhibit C11 to the Agreement is attached and incorporated by reference.
4. The remaining terms of the Agreement remain in full force and effect.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, CITY OF SAN MATEO and STANTEC, INC. have executed this Agreement
on _____.

CITY OF SAN MATEO

CONSULTANT

Azalea Mitch, PE
Public Works Director

Kari D. Shively
Its Authorized Agent
Vice President

July 22, 2021

EXHIBIT “A11”

SCOPE OF SERVICES

Basins 2 and 3 Collection System Improvements
Job No. 46S003

SCOPE OF SERVICES

Stantec Consulting Services Inc. (Consultant) will provide and has provided additional engineering services for the City of San Mateo's (City's) Clean Water Program (Program) Project Elements listed in this Scope of Services. The project, and fee negotiation, has been executed in three phases. There have been ten previous Amendments as listed in Table 1:

Table 1: Agreement and Amendment History

Amendment Number	Phase and Description	Amount	Date	Completion
Original Agreement	Phase 1	\$1,742,000	26-Apr-16	31-May-17
1	Phase 1 Circle Point	\$0	2-Nov-16	Mar-17
2	Phase 1 Additional Site Studies for Corp Yard & Expo	\$0	16-Mar-17	30-Jun-17
3	Phase 2 Conveyance Design	\$6,982,100	28-Jun-17	
4	Phase 2 UFES Design	\$3,000,000	21-Aug-17	15-Aug-19
5	Phase 2 Real Time Control Engineering Evaluation	\$0	19-Jun-18	
6	Phase 3 Glendora-Shasta Engineering Services During Construction (ESDC)	\$329,145	7-May-18	21-Nov-18
7	Phase 3 Lift Stations ESDC	\$450,169.89	22-May-19	
8	Phase 3 DAPS ESDC	\$782,040	7-Nov-19	
9	Phase 2 Additional Design	\$1,024,031	7-Apr-20	
10	Phase 3 UFES ESDC	\$1,290,500	21-May-20	
	Total Approved Contract Value (to date)	\$15,599,985.89		

Overall Scope Assumptions:

The Amendment 11 scope includes Phase 2 design services and Phase 3 construction support services to complete the Project. Additional details can be referenced through the change log that accompanies the monthly invoicing. This amendment includes:

- General services for overall project delivery through December 2024. This service encompasses project management for all the design and construction services.
- Rebalancing completed tasks that were overrun or were completed with budget remaining.
 - The Alternative Analysis task is complete, and the remaining budget balance reallocated to design tasks.
 - Pre - Design Investigations is complete. The overall task expenditure was \$13,777.08 greater than the budget.
 - Several design tasks/subtasks that have been completed were zeroed out.
 - The preliminary design task was completed under budget and reallocated to detailed design tasks.
- Several final design efforts for projects completed (completing 100% level bid-ready contract packages) required additional effort for coordination, meetings, technical support, development of additional design packages and the associated QA/QC, and developing additional OPCCs that were previously not in the scope of work.
- Modifications to the remaining conveyance designs as a result of separating the previously identified single conveyance packages into four separate projects:
 - Pacific Boulevard Force Main – Design was completed in February 2021 with subsequent bid phase support. Construction is expected to be completed in

January 2022, with engineering services during construction extending into March 2022 to complete as-builts and other requirements.

- Delaware Relief Sewer – Final design was completed in July 2021. Bid phase support will extend through November 2021, with construction expected to be completed by November 2022. The design phase included extensive coordination with Caltrain/JPB and their consultant and modifications to the design to separate a portion of the Delaware Relief Sewer and move that work into the UFES project. Engineering services during construction will be completed by towards the end of 2022.
- El Camino North (Formerly El Camino/28th/Flores) – Design will be completed in October/November 2021, followed by bid phase support services into January 2022. Construction completion is expected by January 2023. Engineering services during construction will be completed by towards the end of April 2023.
- El Camino South (Formerly El Camino/Colegrove) – Design will be completed in October/November 2021. Bidding will be delayed until January 2023, with construction completion expected by January 2024). Engineering services during construction will be completed by towards the end of April 2024
- Glendora Shasta (formerly called SST-14) construction is complete and the task is zeroed out. Remaining budget was reallocated to the Lift Station ESDC tasks.
- Lift Station construction services tasks are balanced to zero out. Remaining budget was reallocated to remaining tasks.
- Dale Avenue Pump Station ESDC scope of work has been modified from the originally assumed services to reflect the additional requirements for engineering design and analysis, additional submittals and RFIs, and other support services as were needed and directed by the City's project manager.
- Inclusion of WIFIA funding requirements into previously developed bid documents required additional coordination, revisions and reviews.
- Underground Flow Equalization System Value Engineering changes resulting from the contractor's work approach added additional design and ESDC scope.
- The duration of the overall Basin 2 and 3 projects has been extended an additional 27 months from the previously assumed end date of September 22, 2022 to December 31, 2024.

COST BASIS – AMENDMENT 11

This Amendment 11 re-baselines the project finances utilizing an estimate to complete (ETC) approach. At the direction from the Program's Basins 2 & 3 Project Manager, Consultant has reallocated the remaining budgets of completed tasks/subtasks that were underspent to the balance of completed tasks that were overspent. These overspent tasks were previously authorized by the City's Project Manager to accommodate changes in scope. Remaining funds were further reallocated to increase budgets of on-going tasks that have added additional scope, and to new tasks/subtasks. The new tasks/subtasks are related to separating the Conveyance Package into four separate project packages.

The reallocation of existing remaining funds from completed tasks is insufficient to complete the required scope of work over the additional 27-month duration. Amendment 11 increases the overall project budget by \$1,340,592 to complete the remaining design and engineering services during construction tasks. Refer to attached Table 2 for the detailed changes to the

task and subtasks. Table 2 provides a subtask level description of remaining work on existing tasks. New tasks are identified. Where a task has been closed and any remaining funds reallocated to new tasks or towards adding additional funds to existing open tasks, this is noted and a red font applied to the negative (reallocated) balance.

Additional tasks that are required of the Consultant under the categories below are detailed in the following sections. A listing of assumptions and deliverables is provided in this Scope of Services.

- Task 1 – General Services
- Task 3 - Pre-Design Investigations
- Task 5 – Final Design
- Task 6 – Bid Phase Services
- Task 7 – Engineering Services During Construction
- Task 8 – Construction Monitoring

The City reserves the right to discontinue, alter, or postpone services at any time.

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Table 2: Amendment 11 Cost Summary

Task	Budget	Billing to Date	Estimate to Complete (ETC)	Amendment 11 Amount	New Task Total	Notes
Task 1 - General Services		1-Apr-2021				
1.1 - Project Management	\$1,226,314.86	\$1,281,595.79	\$616,089.95	\$671,370.88	\$1,897,685.74	Task budget expended December 2020 after 4 years of project work. The additional scope is for the Project Manager, Scheduler and Project Accounting staff and assumes an additional 43 months through December 2024 at approximate 12 month rolling average plus escalation. Rate change is April 27 each year. Last 12-month average with escalation is \$15,174.63. Assume this amount for 35 months and reduce the last 8 months for ECR South at 70% of that amount or \$10,622.24. This amount roughly corresponds to the minimum invoice for Project Management.
1.2 - Risk Management (after NTP)	\$13,609	\$0		(\$13,609)	\$0	<i>Task Closed</i> - Initially, risk management was performed each month/quarter, until it was phased out. Task was completed under 1.1.
1.3 - Workshops and Meetings	\$320,371	\$107,803.72		(\$212,567.28)	\$107,803.72	<i>Task Closed</i> Initial workshops were completed under this task, but subsequent workshops were completed with the design tasks for the individual packages. Task is closed - the work is conducted and the expenditure tracked in the respective project design tasks.
1.4 - Quality Control (Plan)	\$8,178	\$21,467.49		\$13,289.49	\$21,467.49	Task budget expended September 2016. The OMP is complete. Quality review has been and will continue to be conducted and tracked in the respective project design tasks.
1.5 - Manage Subconsultants	\$298,541	\$263,264.42	\$62,159	\$26,882.42	\$325,423.42	Task not expended yet. This is the budget remaining for ENGEO and Schaaf and Wheeler for project management.
1.6 - Agency Coordination	\$170,054	\$33,394.30		(\$136,659.70)	\$33,394.30	<i>Task Closed</i> Initial coordination was completed under this subtask, but project-specific coordination was completed and expenditures tracked under the respective project design tasks.
1.7 - Permitting and Environmental	\$230,579	\$26,711.83		(\$203,867.17)	\$26,711.83	<i>Task Closed</i> Initial coordination was completed under this subtask, but project-specific coordination was completed and expenditures tracked under the respective project design tasks.
1.8 - Contingency	\$107,707			(\$107,707)		<i>Task Closed</i> . In the original scope of work and some subsequent amendments, a contingency under the Consultant scope of work was included.
Task 1 - General Services Total	\$2,375,353.86	\$1,734,237.55	\$678,248.95	\$37,132.64	\$2,412,486.50	Additional budget is required to continue Task 1 services to complete remaining projects through December 2024.
Task 2 - Alternative Analysis						
2.1 - Site Visits, Meetings	\$97,951	\$12,177.77		(\$85,773.23)	\$12,177.77	<i>Task Closed</i> . Task budget not expended. Upon completing the alternatives analysis process, the

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Task	Budget	Billing to Date	Estimate to Complete (ETC)	Amendment 11 Amount	New Task Total	Notes
						balance was directed towards use for starting the final design phase. This amendment reconciles those financial adjustments.
2.2 - Hydraulic Modeling	\$139,298	\$118,482.92		(\$20,815.08)	\$118,482.92	<i>Task Closed.</i> Initial modeling for alternatives analysis was completed. Additional modeling was completed and expenditures tracked under respective design tasks.
2.3 - Alternatives Evaluation	\$851,866	\$764,929.05		(\$86,936.95)	\$764,929.05	<i>Task Closed.</i> Task budget not expended. Upon completing the alternatives analysis process, the balance was directed towards use for starting the final design phase. This amendment reconciles those financial adjustments
2.5 - Alternatives Analysis Report	\$139,885	\$107,198.20		(\$32,686.80)	\$107,198.20	<i>Task Closed.</i> Task budget not expended. Upon completing the alternatives analysis process, the balance was directed towards use for starting the final design phase. This amendment reconciles those financial adjustments
Task 2 - Alternative Analysis Total	\$1,229,000	\$1,002,787.94	\$0	(\$226,212.06)	\$1,002,787.94	Task 2 is complete. The remaining budget will be reallocated to remaining and new tasks.
Task 3 - Pre - Design Investigations						
3.1 – Survey	\$447,152	\$553,911.15		\$106,759.15	\$553,911.15	<i>Task Closed.</i> Task budget expended in March 2019. More surveying work was required for the various projects than originally scoped.
3.2 – CCTV	\$52,500	\$119,602.81		\$67,102.81	\$119,602.81	<i>Task Closed.</i> Task budget expended in August 2018. More CCTV was required for the various projects than originally scoped.
3.3 - Utility Coordination	\$254,185	\$30,664.20		(\$223,520.80)	\$30,664.20	<i>Task Closed.</i> Task budget not expended. Less utility coordination was required than originally scoped.
3.4 - Subsurface Utility Engineering Investigation	\$389,513	\$437,916.84		\$48,403.84	\$437,916.84	<i>Task Closed.</i> Task budget expended in January 2019. More SUE was required than originally scoped.
3.5 - Geotechnical Investigation	\$1,017,685	\$820,246.31		(\$197,438.69)	\$820,246.31	<i>Task Closed.</i> Task budget not expended. Less geotechnical field investigation was required than originally scoped.
3.6 - Geotechnical Reports GDR, GIR, GBR, Dewatering	\$207,323	\$404,440.05		\$197,117.05	\$404,440.05	<i>Task Closed.</i> Task budget expended in December 2018. More geotechnical reporting for the separate projects was required
3.7 - Tree Survey	\$31,840	\$47,193.72		\$15,353.72	\$47,193.72	<i>Task Closed.</i> Task budget expended in October 2019. More tree survey work was required than originally scoped due to changes in project alignments.
Task 3 - Pre - Design Investigations Total	\$2,400,198	\$2,413,975.08	\$0	\$13,777.08	\$2,413,975.08	Task 3 is closed. The reconciliation efforts allocate funds shown to balance expenditures and scoped budget not expended. Additional survey and potholing will be completed under the respective design tasks for the remaining projects.

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Task	Budget	Billing to Date	Estimate to Complete (ETC)	Amendment 11 Amount	New Task Total	Notes
Task 4 - Preliminary (30%) Design	\$1,625,970	\$971,183.01	\$0	(\$654,786.99)	\$971,183.01	Task 4 is closed. The preliminary design effort was successfully completed under the original budgeted amount. The remaining budget will be reallocated to remaining and new tasks.
Task 5 - Final Design						The work is reflected work under the milestone billing task that is being completed.
5.1 - 60% Design	\$1,367,566	\$1,416,490.60		\$48,924.60	\$1,416,490.60	Task Closed. Task budget expended in August 2018.
5.2 - 90% Design	\$2,279,275	\$2,308,987.22		\$29,712.22	\$2,308,987.22	Task budget expended in May 2020.
5.3 - Final (100%) Design	\$1,427,256.00	\$2,657,562.91		\$1,230,306.91	\$2,657,562.91	Task Closed. Original conveyance design was scheduled for completion as one package in July 2018. Task budget was expended by July 2019. The project is three years past the original schedule due to City decision to split the Conveyance Package into five separate packages. Billings-to date capture the completion of two packages (Glendora/Shasta and Pacific Force Main Boulevard) and design efforts to develop the 90% level of design for the three remaining packages (Delaware and El Camino North and South) to date. This amendment establishes new Tasks 5.6, 5.7, and 5.8 for the Final Design efforts of the three remaining packages. The change log submitted with each monthly invoice summarizes the changes.
5.5 - Contingency	\$291,587			(\$291,587)		Task Closed. In the original scope of work and some subsequent amendments, a contingency under the Consultant scope of work was included. This specific contingency fund was not used.
5.6 - Delaware Final Design		\$57,433.15	\$143,494.97	\$200,928.12	\$200,928.12	New Task. New final design task complete the Delaware Relief design package ready for bidding. Bid phase services are covered under Task 6. Previous charges for the 100% design were billed to Task 5.3. Most recent charges are already billed to this new subtask. This task covers design, QC, meetings and coordination with Caltrain and HDR, revising specs and drawings, checking hydraulics, revising OPCC, addressing additional changes to the documents in preparation for bidding, and developing the set to advertise. Assumes a three-month window prior to bid where additional design modifications may be made.
5.7 - ECR North Final Design		\$3,278.19	\$119,321.81	\$122,600	\$122,600	New Task. New task to track and complete the El Camino Real North design package ready for bidding. Bid phase services are covered under Task 6. Previous charges for the 100% design were billed to Task 5.3. Most recent charges are already billed to this new subtask. This work is scheduled to bid in January 2022. This task assumes design, meetings, QC, coordination, revising specs and drawings,

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Task	Budget	Billing to Date	Estimate to Complete (ETC)	Amendment 11 Amount	New Task Total	Notes
						checking hydraulics, revising OPCC, and developing the set to advertise. Assumes a three-month window prior to bid where additional design modifications may be made.
5.8 - ECR South Final Design		\$0	\$122,600	\$122,600	\$122,600	<i>New Task.</i> New Task to track and complete the El Camino Real South design package ready for bidding. Bid phase services are covered under Task 6. Previous charges for the 100% design were billed to Task 5.3. Most recent charges are already billed to this new subtask. This work is scheduled to bid in January 2023 and will require review/ confirmation to bid. This task assumes design, meetings, QC, coordination, revising specs and drawings, checking hydraulics, revising OPCC, and developing the set to advertise. Assumes a three-month window prior to bid where additional design modifications may be made.
Task 5 - Final Design	\$5,365,684	\$6,443,752.07	\$385,416.78	\$1,463,484.85	\$6,829,168.85	Additional budget is required to cover costs incurred for additional services already provided and for the remaining services needed to complete the remaining final designs.
Task 50 - UFES VE	\$0	\$86,529.18	\$0	\$86,529.18	\$86,529.18	<i>Task Closed.</i> This task was previously established to track time and materials for additional support services as a direct result of the value engineering approvals by the City. VE work included changes to the UFES Northern Diversion Structure and changing from open cut to microtunneling of the diversion pipeline.
Task 6 - Bid Phase Services	\$247,446	\$166,456.40	\$99,900	\$18,910.40	\$266,356.40	Task budget not expended. Additional funds are required to provide bid phase services for remaining bidding efforts for the Delaware, ECR North, and ECR South packages. The assumed level of effort for 3 additional packages is \$99,900.00. The additional funding is based on the average (\$33291.28) for the previous 5 packages that have been successfully bid.
Task 7 - ESDC						
Task 7.1 - SST14	\$157,691.50	\$89,902.16	\$0	(\$67,789.34)	\$89,902.16	<i>Task Closed.</i> Task budget not expended. Task is complete. The remaining budget was reallocated to the remaining Tasks.
Task 7.2 - Lift Stations						
7.2.1 LS Attend precon	\$12,994	\$850.50		(\$12,143.50)	\$850.50	<i>Task Closed.</i> Task budget not expended. Task is complete. The remaining budget will be reallocated to the remaining Tasks.
7.2.2 LS Attend Prog Mtg	\$11,659	\$16,854.18		\$5,195.18	\$16,854.18	<i>Task Closed.</i> Task budget expended in August 2020. Additional budget required due to prolonged duration due to construction issues caused by contractor.

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Task	Budget	Billing to Date	Estimate to Complete (ETC)	Amendment 11 Amount	New Task Total	Notes
7.2.3 LS Rvw Shop Dwg O&Ms	\$127,078	\$85,987.08		(\$41,090.92)	\$85,987.08	<i>Task Closed.</i> Task budget not expended. Task is complete. The remaining budget will be reallocated to the remaining Tasks.
7.2.5 LS Prepare O&M	\$6,468	\$0		(\$6,468)	\$0	<i>Task Closed.</i> Task budget not expended. This service was not required for the Lift Stations package. The vendor submittals were sufficient for operations staff. The remaining budget will be reallocated to the remaining Tasks.
7.2.8 LS Respond to RFI	\$30,474	\$10,490.12		(\$19,983.88)	\$10,490.12	<i>Task Closed.</i> Task budget not expended. Task is complete. The remaining budget will be reallocated to the remaining Tasks.
7.2.11 LS Field Vis/Report	\$53,959	\$118.06		(\$53,840.94)	\$118.06	<i>Task Closed.</i> Task budget not expended. Task is complete. The remaining budget will be reallocated to the remaining Tasks.
7.2.12 LS CO Dwgs	\$19,944	\$0		(\$19,944)	\$0	<i>Task Closed.</i> Task budget not expended. Task is complete. The remaining budget will be reallocated to the remaining Tasks.
7.2.13 LS Record Dwgs	\$41,236	\$10,430.38	\$4,200	(\$26,605.62)	\$14,630.38	Task budget not expended. Consultant completed as-builts. A reissued set of as-builts is required following City changes to the facility.
7.2.14 LS Startup	\$7,833	\$0		(\$7,833)	\$0	<i>Task Closed.</i> Task budget not expended. Task is complete. The remaining budget will be reallocated to the remaining Tasks.
7.2.16 LS Warranty	\$2,918	\$0		(\$2,918)	\$0	<i>Task Closed.</i> Task budget not expended. Task is complete. The remaining budget will be reallocated to the remaining Tasks.
7.2.17 LS Closeout	\$5,165.71	\$6,250.97	\$11,200	\$12,285.26	\$17,450.97	<i>Task Closed.</i> Task budget expended in April 2021. Additional budget required for ESDC due to construction issues and prolonged close out duration. This task includes contractor problems with harmonics.
7.2.18 LS Post Con Mtg	\$6,976.96	\$0	\$6,976.96	\$0	\$6,976.96	Task budget not expended. Assume same budget and scope.
7.2.20 LS Contingency	\$43,648.22	\$0.00		(\$43,648.22)		<i>Task Closed.</i> In the original scope of work and some subsequent amendments, a contingency under the Consultant scope of work was included.
Task 7.2 - Lift Stations	\$370,353.89	\$130,981.29	\$22,376.96	(\$216,995.64)	\$153,358.25	The overall task budget not expended. Several subtasks will be completed by August 2021. The remaining budget from closed subtasks will be reallocated.
Task 7.3 - DAPS						
7.3.1 DAPS Attend Pre-con	\$9,571	\$4,462.44		(\$5,108.56)	\$4,462.44	<i>Task Closed.</i> Task budget not expended. The remaining budget will be reallocated.
7.3.2 DAPS Attend Prog Mtg	\$54,989	\$62,583.16	\$43,700.00	\$51,294.16	\$106,283.16	Task budget expended in March 2021. Assume additional budget required to get through December 2021 (Subs are also included in this estimate to complete.) Average monthly cost for this subtask is

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Task	Budget	Billing to Date	Estimate to Complete (ETC)	Amendment 11 Amount	New Task Total	Notes
						\$4,845.41. For 9 additional months, the total required is \$43,700.00.
7.3.3 DAPS Rvw Submittals	\$188,720	\$248,837.25	\$27,600.00	\$87,717.25	\$276,437.25	Task budget expended in August 2020. Total of 190 submittals were reviewed for 108 unique items. Consultant scoped submittals and 25% resubmittals. Contractor submittal quality has generally been poor. A large percentage (43% of the total) are resubmittals, or 18.2% more than originally anticipated. The quantity of submittal and resubmittal reviews exceeded the quantity originally budgeted. Most expected submittals have been submitted and are complete. This allowance is reserved for approximately 20 final submittals assuming \$1,380/submittal.
7.3.5 DAPS Prep O&M	\$51,543	\$0	\$51,543.00	\$0.00	\$51,543.00	Task budget not expended. Our scope is to assist in development of O&M manuals and supply content for the manual that will be assembled by another consulting team. This budget value is preserved at the direction of the City's Project Manager and will be authorized based on a better scope definition to an amount not to exceed this budget.
7.3.8 DAPS Respond to RFI	\$69,791	\$103,941.94	\$58,900.00	\$93,050.94	\$162,841.94	Task budget expended in January 2021. Additional budget is required to get through December 2021. Contractor has required additional support during construction than was originally scoped, including reviews of construction methodology. The quantity of RFIs exceeded the quantity originally budgeted and additional RFIs are anticipated. Average for each month is \$6,538.73. For 9 remaining months, the total required is \$58,900.00.
7.3.9 DAPS Factory Witness	\$36,784	\$1,987.44		(\$34,796.56)	\$1,987.44	<i>Task Closed.</i> Task budget not expended due to COVID restrictions and is assumed complete. Future requests will be covered through contingency at the discretion of the City's Project Manager. The remaining budget will be reallocated.
7.3.11 DAPS Field Vis/Report	\$69,790	\$3,863.79	\$32,200.00	(\$33,726.21)	\$36,063.79	Task budget is not expected to be fully expended by the end of construction. Assume approximately half of the visits originally scoped may be required to complete construction and support startup and testing phases through December 2021. Average for each visit is \$2,300.00. For 14 more visits, the total required is \$32,200.00. The remaining budget will be reallocated.
7.3.12 DAPS Prep CO	\$22,790	\$13,212.40	\$9,577.60	\$0.00	\$22,790.00	Task budget not expended. Assume no changes to the scope and budget through the end of December 2021.

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Task	Budget	Billing to Date	Estimate to Complete (ETC)	Amendment 11 Amount	New Task Total	Notes
7.3.13 DAPS Record Dwgs	\$49,791	\$0	\$49,791.00	\$0.00	\$49,791.00	Task budget not expended. No changes to scope and budget. Future task.
7.3.14 DAPS Startup	\$19,354	\$7,048.97	\$24,610.06	\$12,305.03	\$31,659.03	Task budget not expended. The initial effort was used as requested by operations staff for startup purposes. City began operating the DAPS as partially complete. Assume additional support / field visits will be needed for startup.
7.3.16 DAPS Rvw Warranty	\$14,405	\$0	\$14,405.00	\$0.00	\$14,405.00	Task budget not expended. No changes to scope and budget. Future task
Task 7.3 - DAPS	\$587,528	\$445,937.38	\$320,749.06	\$179,158.44	\$766,686.44	
Task 7.4 - UFES						
7.4.1 UFES Attend Pre-con	\$2,720.74	\$2,693.78	\$0.00	(\$26.96)	\$2,693.78	<i>Task Closed.</i> Task budget not expended. The remaining budget will be reallocated.
7.4.2 UFES Attend Prog Mtg	\$48,066.46	\$9,331.58	\$41,282.90	\$2,548.02	\$50,614.48	Task budget not expended. The project has regularly scheduled meetings as well as numerous urgent unscheduled meetings and the City/Contractor/CM has required designer attendance. The duration is assumed through October 2023. The City has declined to increase the budget for this task. If required participation exceed the remaining budget, contingency funds will be requested. Average expenditure for each month is \$2,600.00. For 30 remaining months, the total anticipated is \$78,000.00.
7.4.3 UFES Rvw Submittals	\$397,215.36	\$159,993.46	\$237,221.90	\$0.00	\$397,215.36	Task budget not expended. In progress task through October 2023. Based on the quality of the contractor's submittals, it is anticipated that the budget will be exceeded. Consultant has reviewed 166 submittals for 102 unique items. Original scope had assumed only 25% resubmittals. Contractor is trending at 39% resubmittals or approximately 14% more than the scope assumed. The City has declined to increase the budget for this task. If required services exceed the remaining budget, contingency funds will be requested.
7.4.8 UFES Respond to RFI	\$167,150.15	\$53,823.40	\$113,326.76	\$0.00	\$167,150.15	Task budget not expended. No changes to scope and budget. In progress task through October 2023
7.4.9 UFES Factory Witness	\$15,089.56	\$0.00	\$15,089.56	\$0.00	\$15,089.56	Task budget not expended. No changes to scope and budget. In progress task through October 2023
7.4.10 Material Conference	\$2,521.06	\$0.00	\$0.00	(\$2,521.06)	\$0.00	<i>Task Closed.</i> Task budget not expended. No conference was conducted. The remaining budget will be reallocated.
7.4.11 UFES Field Vis/Report	\$50,919.13	\$1,209.43	\$49,709.70	\$0.00	\$50,919.13	Task budget not expended. No changes to scope and budget. In progress task through October 2023
7.4.12 UFES Prep CO	\$37,560.37	\$10,609.32	\$26,951.05	\$0.00	\$37,560.37	Task budget not expended. No changes to scope and budget. In progress task through October 2023
7.4.13 UFES Record Dwgs	\$53,275.24	\$0.00	\$53,275.24	\$0.00	\$53,275.24	Task budget not expended. No changes to scope and budget. Future task

Exhibit A-11

Task	Budget	Billing to Date	Estimate to Complete (ETC)	Amendment 11 Amount	New Task Total	Notes
7.4.14 UFES Startup	\$12,217.20	\$0.00	\$12,217.20	\$0.00	\$12,217.20	Task budget not expended. No changes to scope and budget. Future task
Task 7.4 - UFES	\$786,735.27	\$237,660.97	\$549,074.30	\$0.00	\$786,735.27	
Task 7.5 - Pacific						New Work - HDD, 8 months through record drawings
7.5.1 PAC-Attend Pre-con		\$0	\$2,186.80	\$2,186.80	\$2,186.80	Assume 2 attendees at one meeting
7.5.2 PAC-Attend Prog Mtg		\$0	\$25,981.74	\$25,981.74	\$25,981.74	Assume internal coordination
7.5.3 PAC-Rvw Submittals		\$0	\$23,606.46	\$23,606.46	\$23,606.46	Assume 25% resubmittals
7.5.8 PAC-Respond to RFI/C		\$0	\$27,205.93	\$27,205.93	\$27,205.93	
7.5.11 PAC-Field Vis/Report		\$0	\$6,482.46	\$6,482.46	\$6,482.46	
7.5.12 PAC-Prep CO		\$0	\$13,558.80	\$13,558.80	\$13,558.80	
7.5.13 PAC-Record Dwgs		\$0	\$6,556.76	\$6,556.76	\$6,556.76	
7.5.16 PAC-Rvw Warranty		\$0	\$610.65	\$610.65	\$610.65	
7.5.17 PAC-Closeout		\$0	\$2,287.40	\$2,287.40	\$2,287.40	
Task 7.5 - Pacific	\$0	\$0	\$108,477	\$108,477	\$108,477	
Task 7.6 - Delaware						New Work - Microtunnel, open cut, 12 months through record drawings
7.6.1 DEL-Attend Pre-con		\$0	\$3,279.20	\$3,279.20	\$3,279.20	Assume 3 attendees
7.6.2 DEL-Attend Prog Mtg		\$0	\$70,944.81	\$70,944.81	\$70,944.81	Assume internal coordination also
7.6.3 DEL-Rvw Submittals		\$0	\$55,959.42	\$55,959.42	\$55,959.42	Assume 25% resubmittal and assume coordination with HDR and Caltrain
7.6.8 DEL-Respond to RFI/C		\$0	\$49,648.56	\$49,648.56	\$49,648.56	
7.6.11 DEL-Field Vis/Report		\$0	\$14,058.96	\$14,058.96	\$14,058.96	
7.6.12 DEL-Prep CO		\$0	\$13,801.38	\$13,801.38	\$13,801.38	
7.6.13 DEL-Record Dwgs		\$0	\$7,957.88	\$7,957.88	\$7,957.88	
7.6.16 DEL-Rvw Warranty		\$0	\$610.65	\$610.65	\$610.65	
7.6.17 DEL-Closeout		\$0	\$5,434.14	\$5,434.14	\$5,434.14	
Task 7.6 - Delaware	\$0	\$0	\$221,695	\$221,695	\$221,695	
Task 7.7 - ECR North						New Work - CIPP, open cut, construction assumed at 8 months through record drawings
7.7.1 ECR North-Attend Pre-con		\$0	\$3,280	\$3,280	\$3,280	Assume 2 attendees at one meeting
7.7.2 ECR North-Attend Prog Mtg		\$0	\$25,981	\$25,981	\$25,981	Assume internal coordination also
7.7.3 ECR North-Rvw Submittals		\$0	\$32,669	\$32,669	\$32,669	Assume 25% resubmittal
7.7.8 ECR North-Respond to RFI/C		\$0	\$20,249	\$20,249	\$20,249	
7.7.11 ECR North-Field Vis/Report		\$0	\$10,418	\$10,418	\$10,418	
7.7.12 ECR North-Prep CO		\$0	\$10,438	\$10,438	\$10,438	
7.7.13 ECR North-Record Dwgs		\$0	\$10,897	\$10,897	\$10,897	
7.7.16 ECR North-Rvw Warranty		\$0	\$611	\$611	\$611	
7.7.17 ECR North-Closeout		\$0	\$2,508	\$2,508	\$2,508	
7.7.20 ECR North-Contingency						
Task 7.7 - ECR North	\$0	\$0	\$117,051	\$117,051	\$117,051	
Task 7.8 - ECR South						New Work - open, 8 months through record drawings
7.8.1 ECR South-Attend Pre-con		\$0	\$2,441.60	\$2,441.60	\$2,441.60	Assume 2 attendees at one meeting
7.8.2 ECR South-Attend Prog Mtg		\$0	\$27,674.28	\$27,674.28	\$27,674.28	Assume internal coordination also
7.8.3 ECR South-Rvw Submittals		\$0	\$31,394.46	\$31,394.46	\$31,394.46	Assume 25% resubmittal

Exhibit A-11

Task	Budget	Billing to Date	Estimate to Complete (ETC)	Amendment 11 Amount	New Task Total	Notes
7.8.8 ECR South-Respond to RFI/C		\$0	\$18,981.19	\$18,981.19	\$18,981.19	
7.8.11 ECR South-Field Vis/Report		\$0	\$9,459.37	\$9,459.37	\$9,459.37	
7.8.12 ECR South-Prep CO		\$0	\$10,199.98	\$10,199.98	\$10,199.98	
7.8.13 ECR South-Record Dwgs		\$0	\$10,909.76	\$10,909.76	\$10,909.76	
7.8.16 ECR South-Rvw Warranty		\$0	\$631.59	\$631.59	\$631.59	
7.8.17 ECR South-Closeout		\$0	\$5,135.77	\$5,135.77	\$5,135.77	
Task 7.8 - ECR South	\$0	\$0	\$116,828	\$116,828	\$116,828	
Task 8 - Const Monitoring - LS						
8.1.1 Install VWP's for LS	\$15,192	\$0		(\$15,192)	\$0	<i>Task Closed.</i> Task budget not expended. The groundwater monitoring has been combined below rather than separated. The remaining budget will be reallocated.
8.1.2 Install Structure Mon for LS	\$7,236	\$0		(\$7,236)	\$0	<i>Task Closed.</i> Task budget not expended. This was not completed because City did not require the monitor. The remaining budget will be reallocated.
8.2.1 GW monitoring for VWP's	\$31,916	\$10,508.10		(\$21,407.90)	\$10,508.10	<i>Task Closed.</i> Task budget not expended. The groundwater monitoring has been combined below rather than separated. The remaining budget will be reallocated.
8.2.2 Structure monitoring LS	\$51,139	\$0		(\$51,139)	\$0	<i>Task Closed.</i> Task budget not expended. This was not completed because City did not require the monitor. The remaining budget will be reallocated.
Task 8 - Const Monitoring - LS	\$105,483	\$10,508.10	\$0	(\$94,974.90)	\$10,508.10	
Task 8 - Const Monitoring - UFES						Assumed through October 2023
8.4.1 Const GW Monitoring	\$99,318.12	\$62,548.10	\$179,550	\$142,779.98	\$242,098.10	Task budget not expended. This is for the ENGEO weekly monitoring and reports as requested by the City for 30 more months. Note that all monitoring that has been conducted has been completed under this subtask, including lift stations and conveyance projects. Average monthly cost is \$5,985.00. For 30 Remaining months the total required is \$179,550.00.
8.4.2 GW Monitoring Reports	\$42,142.14	\$10,237.50	\$31,904.64	\$0	\$42,142.14	Task budget not expended. No changes to scope and budget.
8.4.3 Tieback & Shoring Obs	\$23,631.54	\$1,304.10	\$22,327.44	\$0	\$23,631.54	Task budget not expended. No changes to scope and budget. Hold through Oct 2023
8.4.4 Micropile Obs (8/day)	\$107,492.13	\$6,616.05	\$136,576.08	\$35,700	\$143,192.13	Task budget not expended. Additional budget required due observe micropile installations at the City's request. The cost basis assumes observation of 8 piles/day. Additional observation during installation of micropiles and field support (15 days, full-time). Data review, consultation, and preparation of progress reports. The resulting cost includes \$26,500 for observations, \$7,500 for reporting and 5% markup. Total is \$35,700.00.
8.4.5 Testing and Obs	\$75,958.44	\$0	\$144,208.44	\$68,250	\$144,208.44	Task budget not expended. Hold through Oct 2023. Additional budget required due to City requested additional observations and field support during

Exhibit A-11

Task	Budget	Billing to Date	Estimate to Complete (ETC)	Amendment 11 Amount	New Task Total	Notes
						micropile load testing. Assumed Maintained Test (7 tests, 24 hours/test), Cyclic Test (7 tests, 8 hours/test), and load test review and preparation of transmittals (up to 14 transmittals). The resulting cost includes \$39,500, \$12,500, \$13,000, and 5% markup. Total is \$68,250.00.
Task 8 - Const Monitoring - UFES	\$348,542.37	\$80,705.75	\$514,566.60	\$246,729.98	\$595,272.35	
Total	\$15,599,985.89	\$13,814,616.87	\$3,125,961.25	\$1,340,592.25	\$16,940,578.13	

TASK 1 – GENERAL SERVICES

Additional funds for the general services scope are requested to extend services through December 2024. That date matches the currently anticipated end of construction for the Basins 2 and 3 projects and record drawing completion.

TASK 3 – PRE - DESIGN INVESTIGATIONS

Consultant performed field investigation to support the design development. These investigations include survey, CCTV, Utility coordination, subsurface utility investigations and geotechnical investigations, geotechnical reports, and tree surveys. \The initial scope was developed prior to any field work. During preliminary design, the data needed to complete final design was further identified. As knowledge increased, the kind of field investigation required changed. This amendment balances the amounts to zero out. No additional field investigation is included in the amendment.

Task 3.1 – Survey

More survey was required than originally scoped.

Task 3.2 – CCTV as necessary

More CCTV was required than originally scoped.

Task 3.3 – Utility Coordination

Less utility coordination was required than originally scoped.

Task 3.4 – Subsurface Utility Engineering Investigation

More SUE was required than originally scoped.

Task 3.5 – Geotechnical Investigation

Less geotechnical investigation was required than originally scoped.

Task 3.6 – Geotechnical Reports

More geotechnical reporting was required than originally scoped.

Task 3.7 – Tree Survey

More tree survey work was required than originally scoped due to changed alignments and design requirements added or modified.

TASK 5 – FINAL DESIGN

The timeframe has changed significantly since originally scoped. Originally, all the conveyance packages were to have been designed by July 2018. Per the City's direction, the conveyance package was split into five separate packages: 1) Glendora/Shasta, 2) Pacific Force Main, 3) Delaware Relief, 4) El Camino Real North, and 5) El Camino Real South. At the time of this amendment, the last conveyance package design has been rescheduled to be complete beyond the original schedule.

This extended schedule has resulted in additional meetings and coordination with the Program and the City and will continue through 2021. Additional modeling has been and will be required to evaluate and confirm the performance of the individual packages once the projects have been as-built. Additional separate opinions of probable cost (OPCC) are required for each project's

milestone deliverables. Additional QC has been and will be required for each additional deliverable under the new separate conveyance packages.

Per the direction of the City, value engineering design services for the UFES Package were also provided. Additional detail for the value engineering effort are included below.

Changes to the final design are summarized in the change log provided with monthly invoices submitted by Consultant. The following list is a high-level summary of these changes across all of the projects. Additional changes and impacts are described in the following task descriptions.

- Conveyance Package
 - Expenditures to date reflect the design completion for Glendora/Shasta and Pacific Boulevard Force Main Packages. Delaware Relief Sewer Design was recently completed in June 2021.
 - The improvements included in the remaining El Camino North and South packages were previously completed to a 90% level of design under the Conveyance Package.
 - Separating the packages required creating separate drawing files with more detail sheets, additional specification packages and bid forms.
- UFES Value Engineering
 - UFES Value Engineering process, including additional meetings and design changes beyond what was originally scoped.
 - Changing the diversion piping from open cut to microtunneling in UFES. This required preparation of new specifications on an accelerated schedule.
 - Evaluating UFES water tightness requirements from ACI 350. This concept was initially raised during the VE process and was rejected.
 - Reevaluation of porous pavement for UFES.
 - Changes to the easement for PGE within UFES site plan.
 - Review and evaluation of the County's design of RV Park for conformance with the UFES design.
 - Additional building department submittals and changes for COA for UFES to show the requirements in both the specification and the drawings.
 - Need to redesign the Diversion structure to accommodate the microtunneling for UFES package.
 - UFES lifecycle and DAPS lifecycle cost inputs
- Conveyance Package Split
 - Conveyance – The project design was completed to 90% and subsequently split into five packages. Each of these new packages has required or will require a separate revised 90% submittal and follow-on 100% submittals.
 - Delaware Alternatives Analysis. A review of the record drawings shows that the gas line is very close to the City's ROW. An alternate in the Caltrain ROW was approved on February 11, 2019.
 - Analysis of tiebacks and resulting recommendations were made to Wilson Meany and their development team for Caltrain Station that would minimize impacts to the Delaware Relief Sewer project.
 - Delaware was developed as a separate package from the previous conveyance package assuming that it will be administered using Caltrain's front end specifications by Caltrain as part of the grade separation projects.

- Delaware construction was subsequently shifted back to the City to administer using their own documents, but with coordination with Caltrain and HDR. This process resulted in approximately 18 months of ongoing coordination meetings, design reviews, field confirmation visits, engineering evaluations, cost estimates and document revisions.
- Coordination with HDR to include surface improvements in the City's bidding documents. Additional reviews by Consultant identified gaps and deficiencies in the partial HDR package that required both parties to address in order to develop a seamless bid package for Delaware.
- Attending weekly coordination calls with Caltrain to obtain agreements and finalize technical requirements.
- General specification updates for Delaware bid item list, WIFIA requirements, measurement and payment, and other revised sections from the City and JPB.
- Identify and evaluate fiber optic line conflicts for the Delaware project at the request of Caltrain/JPB in concert with the grade separation project.
- Removal of the Hillsdale pipeline segment from the Conveyance (now El Camino Real – South) required additional hydraulic modeling to evaluate the potential impacts of removing the segment from the project.

The original Phase 2 scope required the Consultant to provide engineering services to prepare biddable drawings, technical specifications and other contract documents as required based on the design concepts and criteria developed during Preliminary Design. The Final Design status for the different projects completed and in progress is documented in the milestone deliverables shown in Table 3. Design for the packages in progress or future are included as part of this amendment. Completed designs are summarized here only for reference.

Table 3: Design Status

Design Package (Original)	New	Milestone Deliverables	Design Status
In System Storage	Underground Flow Equalization System	30,60,90,100	October 10, 2019
Pump Stations	Dale Avenue Pump Station (February 2018)	30,60,90,95,100	May 17, 2019
	Lift Stations (February 2018)	30,60,90,95, 100	February 13, 2019
Conveyance ^a	Glendora/Shasta (June 2016)	30,60,90,100	January 26, 2018
	Delaware Relief Sewer (November 2017) ^a	30,60,3X90,100	June 18, 2021
	Pacific Force Main (August 2020) ^a	30,60,90,100	January 4, 2021
	El Camino Real North (August 2020) ^a	30,60,90,100	Anticipated November 2021
	El Camino Real South (August 2020) ^a	30,60,90,100	Anticipated December 2021
Notes:			
a – The Delaware/Pacific/El Camino Real North/South projects were previously anticipated to be delivered as a single conveyance system design package. The City directed Consultant to separate these projects into separate design/bid packages in October 2020.			

For the design packages that will be bid at a later date, i.e., more than 6 months after the design is complete, the Consultant will be required to review and update the design drawings prior to advertising. Consultant will review the condition in the field (one visit), check the status of coordinating projects and determine if any updates are required. The Consultant will deliver 100% bid documents as shown in Table 4. The Consultant will allocate four (4) weeks to confirm the design and prepare bid documents.

At the direction of the Program's Basins 2 & 3 Project Manager, Consultant has created new tasks/subtasks for the final design and services during construction efforts of the remaining conveyance packages.

Task 5 Assumptions:

- No additional design will be completed under Task 5.3.
- This amendment establishes new Tasks 5.6, 5.7, and 5.8 for the Final Design efforts for Delaware, El Camino North and El Camino South.
- Additional coordination time/meetings were required with the additional schedule.
- Additional coordination with CalTrain was required.
- Additional coordination with HDR was required to incorporate their design into the bid package.
- Additional investigation and alternatives analysis were also required.
- Each additional design deliverable will require an additional QC effort with the related discipline reviews.
- Each additional design deliverable will require an opinion of probable cost.

Task 5 Deliverables:

- In addition to the specific out-of-scope deliverables listed above, additional 100% design deliverables have been or will be developed, including design drawings, specifications, OPCC and QC Certification for the remaining conveyance packages:
 - Pacific Force Main
 - Delaware Relief Sewer
 - El Camino North
 - El Camino South

TASK 6 – BID PHASE SERVICES

The Consultant will provide the following bid phase services for each of the remaining conveyance packages:

- Participate in the pre-bid meeting.
- Prepare responses to bidder questions.
- Prepare project drawing set and project specification addenda to provide clarification for items identified prior to bid opening.
- Participate in the evaluation of the submitted bids, furnish consultation and advice to City staff and assist with all the related equipment, cost and other analyses as required to finalize the award decision.
- Prepare conformed drawings and specifications that incorporate the addenda.

Originally, bidding was to be completed for three packages: 1) UFES, 2) Pump Stations (DAPS and Lift Stations), and 3) the Conveyance Package. As of this amendment, there are eight (8) separate packages. The completion dates are shown in Table 4 below. Bidding for the packages in progress or future are included as part of this amendment. Completed bids are summarized here only for reference.

Table 4: Bid Dates

Package (Original)	Package (New)	Design Complete	Bidding Complete
In System Storage	Underground Flow Equalization System	October 10, 2019	May 2020
Pump Stations	Dale Avenue Pump Station (February 2018)	May 17, 2019	September 2019
	Lift Stations (February 2018)	February 13, 2019	October 2019
Conveyance	Glendora/Shasta (June 2016)	January 26, 2018	April 2018
	Delaware Relief Sewer (November 2017)	June 18, 2021	Anticipated September 2021
	Pacific Force Main (August 2020)	January 4, 2021	April 2021
	El Camino Real North (August 2020)	Anticipated November 2021	Anticipated February 2022
	El Camino Real South (August 2020)	Anticipated December 2021	Delayed until January 2023

The timeframe has changed significantly since originally scoped. Originally, all of the conveyance packages would have been designed by December 2018 and bid complete by April 2019. The last package will be delayed to 2023, some four years beyond the original time. This adds meetings and coordination with the Program and the City.

Task 6 Assumptions:

- 100% submittals are bid ready documents
- Three additional packages will be bid once each.
 - Pacific Boulevard Force Main (completed April 2021)
 - Delaware Relief Sewer
 - El Camino North
 - El Camino South.
- City will oversee distribution of Contract Documents - using an electronic service
- Electronically signed and sealed documents will be encrypted/locked and not searchable. An unsigned and sealed set will be provided prior to signing and sealing.
- 1 engineer will attend each of 3 Pre-bid Conference(s)
- Response to Bid Period Questions: 20 each package at approximately 2.5 hours per question

- Prepare Design Clarification - Drawings and Specifications: 4 each package at approximately 4 hours per clarification issued as addenda to the bidding documents.
- Review Bids
- Prepare conformed Documents for each package. Conformed documents are for convenience. The bid set and issued addenda are the official contract documents.
- No survey will be required prior to bidding.

Task 6 Deliverables:

- Responses to bid questions and design clarifications
- 3 Bid tabulations/reviews
- Conformed documents delivered electronically.

TASK 7 – CONSTRUCTION PHASE SERVICES

Originally, construction was to be completed for three packages: 1) UFES, 2) Pump Stations (DAPS and Lift Stations), and 3) the Conveyance Package. Now there are eight (8) packages. The construction status is shown in Table 5 below. Construction for the packages in progress or future are included as part of this amendment. Completed construction is summarized here for reference.

Table 5: Construction Status

Construction Project	Construction Status	Anticipated completion
Underground Flow Equalization System	In Progress	October 2023
Dale Avenue Pump Station (February 2018)	In Progress – October 2019	December 2021
Lift Stations (February 2018)	Substantial Completion November 2020	August 2021
Glendora/Shasta (June 2016)	Complete	
Delaware Relief Sewer (November 2017)	Future – October 2021	October 2022
Pacific Force Main (August 2020)	In Progress	December 2021 (8 months)
El Camino Real North (August 2020)	Future – March 2022	November 2022 (8 months)
El Camino Real South (August 2020)	Future – March 2023	November 2023 (8 months)

The timeframe has changed significantly since originally scoped. Construction will be approximately 4 more years (through mid-2024) based on completing last conveyance package, start-up, and testing.

As the construction has progressed, there have been adjustments to the expenditures for individual tasks where the projects are active. New scope is added to provide engineering

services during construction for the 6 packages that are in progress or are to be constructed in the future.

Changes to the construction phase services have been summarized in the change log provided with monthly invoices. The changes shown in the change log were documented as required by the contract/contractor or as requested by the City. The date of record is reflected in this table along with a summary of the change. The following list is a high-level summary of key changes.

- UFES
 - Attending non-scheduled urgent meetings at the request of the City/Contractor/Construction Manager to address field issues and subsequent follow-on action.
 - Changing UFES water tightness requirements from ACI 350. This concept was initially raised during the VE process and was rejected. In January 2021 the City chose to revisit and ultimately accept the contractor's proposal. Additional meetings were held to discuss/assess the concept and engineering evaluations were made to support the City's decision process.
 - Providing extensive technical evaluation and consultation to support the City in managing the microtunneling issues with the UFES package. Additional tunneling and geotechnical evaluations, along with additional hydraulic modeling, was requested by the City to support the evaluation the microtunneling remedies recommended by the contractor.
 - Design evaluation for relocation of storage tanks from Delaware to the Expo Center.
- DAPS Package
 - Attending non-scheduled urgent meetings at the request of the City/Contractor/Construction Manager to address field issues and subsequent follow-on action.
 - DAPS elevator revisions initial evaluation and roof design to accommodate the elevator and avoid a variance from CALOSHA. This effort also required additional engineering to address groundwater seepage in the elevator shaft.
 - Additional non-scheduled urgent meetings to address field issues and subsequent follow-up action.
 - Designer provides recommendations for contractor work approaches for investigating the DAPS force mains.
 - City's changes on DAPS Submittal (#26 29 00-1.A: 26 29 00-1.A MCC and VFD Submittal Rev A) as compared with the design approach.
 - DAPS Operator Interface / SCADA Modifications
 - Intelligent MCCs, Change from NFPA Code.
 - Developed DAPS SOPS for startup for interim operating period
 - Additional submittal reviews for DAPS
- Lift Station Package
 - Attending non-scheduled urgent meetings at the request of the City/Contractor/Construction Manager to address field issues and subsequent follow-on action.
 - Addressed several follow-on punch list deficiencies, including electrical cabinet and wiring corrosion, inlet baffle size and configuration, level element

malfunctions, and harmonic filter issues. Completed additional site visits as part of this effort.

Additional descriptions and notes for the various packages are shown in Table 2, above, for each of the Task 7 descriptions below. The “X” in the subtask designation denotes that the scope is identical for each project.

Task 7.X.1 –Pre-Construction Conference

Consultant will attend the pre-construction conference, assumed to be via teleconference.

Task 7.X.2 – Attend Construction Progress Meetings

During the construction phase, one Consultant representative will call into the weekly construction meetings. Agenda and minutes for the meetings will be prepared by others.

The calls are assumed over each project duration. Consultant shall not attend these meetings in person. Consultant assumes that maximum participation will be every week for one hour. Consultant will have only one participant at these teleconference meetings.

Construction Manager will inform Consultant as early as possible regarding construction schedule interruptions or delays. If construction is delayed or the time is extended, City shall authorize additional services by Change Order.

Task 7.X.3: Review Submittals

Consultant will review shop drawing submittals (including re-submittals). Construction Manager will receive, log and send each shop drawing submittal to Consultant for review. Construction Manager will review submittals for completeness prior to sending to Consultant. Consultant will provide quality control for each review. Following review, Consultant will return one marked up submittal and a shop drawing review letter with comments via email. An assumed rate of re-submittal is 25%. If the total re-submittal rate exceeds 25% a change order may be required to complete the submittal reviews. A list of submittals will be prepared for each package following bidding. For purposes of budgeting, an estimate was developed using the Pacific package. Consultant will not re-review any submittal initially marked as “Make Corrections Noted.” Consultant has budgeted a maximum hours for this task in the assumption tables for each package. If either the number of hours or the number of submittals for review are exceeded, City shall authorize additional services by amendment.

Task 7.X.8: Respond to Request for Information/Clarification

Consultant will review contractor Requests for Information (RFIs) and Requests for Clarification (RFCs). Each contractor RFI/RFC will be logged, processed and routed to the appropriate individual(s) to respond to the question. 20 RFIs/RFCs (total combined) are assumed.

Consultant has budgeted hours for this task in the assumption tables for each package. If either the number of hours or the number of RFIs are exceeded, City shall authorize additional services by amendment.

Task 7.X.11: Conduct Field Visit/Prepare Report

The Engineer of Record is responsible in construction to establish the type and frequency of field reviews appropriate for the project and provide those services. Site visits are assumed for each project. At the conclusion of the visit, the Consultant will prepare a brief trip report.

Where field visits are required and consultant is not able attend the project due to the City's budgetary constraint, the City shall assume the responsibility for those reviews. The consultant shall not be responsible, when performed by others, for observations of the quality of the installation nor for an evaluation of conformance to the design intent.

Task 7.X.12: Prepare Change Orders

Consultant will provide input to the Construction Manager for up to 2 change orders, which may contain multiple items. The project may involve construction changes to the design to accommodate field conditions. The changes are shown in the assumption tables for each package.

Task 7.X.13: Prepare Record Drawings

Consultant will prepare Record Drawings based on the contractor's "redline" marked-up drawings, provided that such markups are provided by the contractor within 2 months of the end of the construction period. The mark-ups are expected to contain clarifications, approved field modifications, change order work, and other significant construction revisions. Consultant has budgeted hours for this task as shown in the assumption tables. Consultant will limit record drawing updates to this amount of time. If desired, City shall authorize additional services by Change Order for additional changes. Consultant will not be responsible for verifying the validity of the red-line set provided by the contractor. Consultant will not perform any field investigation to confirm final constructed facilities or resolve discrepancies. Files delivered by the consultant are assumed to be provided in PDF, native design files (Revit and Civil 3D), and GIS. No conversion to AutoCAD from the 3D models is assumed. No changes will be made to the conformed specifications. No changes will be made once the initial submittals are provided to the City.

Task 7.X.16: Review Warranty Documents

Consultant will review warranty documents.

Task 7.X.17: Construction Closeout

Consultant will review the plans and specifications to verify that all items required by the contract have been submitted and approved and support the City's Project Manager to complete close-out activities.

Task 7 Assumptions:

- Reference Table 2 in addition to these assumptions.
- The total construction time is shown in Table 2. Consultant will provide support during this time as directed by the City. A level of effort is assumed for each activity. Consultant budgets may shift between the subtasks. If the number of hours requested by the City or their representative exceeds the budget, City shall authorize additional services by amendment.
- Construction Manager will be responsible for overall construction management, will schedule meetings and will prepare and distribute meeting notes for those meetings.
- Consultant has no control over Contractor and relies on Construction Manager to pre-review submittals for completeness before submitting to the Consultant to review.

- Construction Manager will coordinate and guide assignment of relevant submittals, RFIs, clarifications, change orders, test reports, etc. Construction manager shall not direct changes to the contract via email communications. All changes shall be formally acknowledged by City.
- Consultant shall be provided sufficient clarity of direction on individual submittals such that review time will not be impeded by multiple communications. Each subsequent direction will constitute a new submittal review cycle. All review comments shall come through the CM within the review process. No communications via email outside of this submittal review process will be accepted.
- City reviews of submittals shall be conducted simultaneously with consultant reviews. Changes noted from the City reviews shall be escalated to the City for authorization to request a change from the contractor.
- Construction Manager will compile and provide the City a complete set of RFIs, submittals, change orders, and other construction-related correspondence at the completion of the construction project.
- Consultant will coordinate record drawing preparation at the completion of the project including the desired final format of the record drawings. Record drawing preparation is assumed to follow completion of construction and will be completed within 1 month of receipt of redlines and other information from the Contractor and/or Construction Manager.
- Consultant assumes no factory witness, no Operations and Maintenance manuals and no startup assistance for the conveyance projects.

Table 6: ESDC Basis of Costs for Additional Conveyance Packages

Task 7.5 – Pacific New Work - HDD, 8 months through record drawings		Months Days	No.	Total Hours	Labor	Subs	ODC	Total
7.5.1 PAC-Attend Pre-con	Assume 2 attendees at one meeting	8	1	8	\$2,080.48		\$106.32	\$2,186.80
7.5.2 PAC-Attend Prog Mtg	Assume internal coordination also	36	36	126	\$24,307.20		\$1,674.54	\$25,981.74
7.5.3 PAC-Rvw Submittals	Assume 25% resubmittal	2	60	126	\$21,937.24		\$1,669.22	\$23,606.46
7.5.8 PAC-Respond to RFI/C		15	6	86.5	\$15,556.34	\$10,500.00	\$1,149.59	\$27,205.93
7.5.11 PAC-Field Vis/Report		8	8	44	\$5,423.44		\$1,059.02	\$6,482.46
7.5.12 PAC-Prep CO		17	4	64	\$12,708.24		\$850.56	\$13,558.80
7.5.13 PAC-Record Dwgs		2	25	52	\$5,865.68		\$691.08	\$6,556.76
7.5.16 PAC-Rvw Warranty		3	1	3	\$570.78		\$39.87	\$610.65
7.5.17 PAC-Closeout		15	1	13	\$2,114.63		\$172.77	\$2,287.40
Task 7.5 - Pacific				522.5	\$90,564.03	\$10,500.00	\$7,412.97	\$108,477.00
Task 7.6 – Delaware New Work - Microtunnel, open cut, 12 months through record drawings		Months Days	No.	Total Hours	Labor	Subs	ODC	Total
7.6.1 DEL-Attend Pre-con	Assume 3 attendees	12	1	16	\$3,066.56		\$212.64	\$3,279.20

Exhibit A-11

7.6.2 DEL-Attend Prog Mtg	Assume internal coordination also	52	53	345	\$66,359.76		\$4,585.05	\$70,944.81
7.6.3 DEL-Rvw Submittals	Assume 25% resubmittal and assume coordination with HDR and Caltrain	4	70	287.5	\$52,138.54		\$3,820.88	\$55,959.42
7.6.8 DEL-Respond to RFI/C		25	6	152	\$26,628.48	\$21,000.00	\$2,020.08	\$49,648.56
7.6.11 DEL-Field Vis/Report		8	12	96	\$11,832.96		\$2,226.00	\$14,058.96
7.6.12 DEL-Prep CO		17	4	66	\$12,924.24		\$877.14	\$13,801.38
7.6.13 DEL-Record Dwgs		2	25	60	\$7,160.48		\$797.40	\$7,957.88
7.6.16 DEL-Rvw Warranty		3	1	3	\$570.78		\$39.87	\$610.65
7.6.17 DEL-Closeout		15	1	38	\$4,938.56		\$495.58	\$5,434.14
Task 7.6 - Delaware				1063.5	\$185,620.36	\$21,000.00	\$15,074.64	\$221,695.00
Task 7.7 - ECR North New Work - CIPP, open, 8 months through record drawings		Months Days	No.	Total Hours	Labor	Subs	ODC	Total
7.7.1 ECR North-Attend Pre-con	Assume 2 attendees at one meeting	8	1	16	\$3,067.36		\$212.64	\$3,280.00
7.7.2 ECR North-Attend Prog Mtg	Assume internal coordination also	36	36	126	\$24,306.46		\$1,674.54	\$25,981.00
7.7.3 ECR North-Rvw Submittals	Assume 25% resubmittal	2	60	186	\$30,197.06		\$2,471.94	\$32,669.00
7.7.8 ECR North-Respond to RFI/C		19	6	115	\$18,720.65		\$1,528.35	\$20,249.00
7.7.11 ECR North-Field Vis/Report		8	8	65	\$8,010.65		\$2,407.35	\$10,418.00
7.7.12 ECR North-Prep CO		14	4	54	\$9,720.34		\$717.66	\$10,438.00
7.7.13 ECR North-Record Dwgs		2	38	83	\$9,793.93		\$1,103.07	\$10,897.00
7.7.16 ECR North-Rvw Warranty		3	1	3	\$571.13		\$39.87	\$611.00
7.7.17 ECR North-Closeout		15	1	15	\$2,308.65		\$199.35	\$2,508.00
Task 7.7 - ECR North				663	\$106,696.23	\$0.00	\$10,354.77	\$117,051.00
Task 7.8 - ECR South New Work - open, 8 months through record drawings		Months Days	No.	Total Hours	Labor	Subs	ODC	Total
7.8.1 ECR South-Attend Pre-con	Assume 2 attendees at one meeting	8	1	16	\$2,228.96		\$212.64	\$2,441.60
7.8.2 ECR South-Attend Prog Mtg	Assume internal coordination also	36	36	150	\$25,680.78		\$1,993.50	\$27,674.28
7.8.3 ECR South-Rvw Submittals	Assume 25% resubmittal	2	60	186	\$28,922.52		\$2,471.94	\$31,394.46
7.8.8 ECR South-Respond to RFI/C		19	6	119	\$17,399.68		\$1,581.51	\$18,981.19
7.8.11 ECR South-Field Vis/Report		8	8	65.6	\$8,085.86		\$1,373.51	\$9,459.37
7.8.12 ECR South-Prep CO		14	4	54	\$9,482.32		\$717.66	\$10,199.98
7.8.13 ECR South-Record Dwgs		2	37	84	\$9,793.40		\$1,116.36	\$10,909.76

7.8.16 ECR South-Rvw Warranty		3	1	3	\$591.72		\$39.87	\$631.59
7.8.17 ECR South-Closeout		15	1	35	\$4,670.62		\$465.15	\$5,135.77
Task 7.8 - ECR South				712.6	\$106,855.86	\$0.00	\$9,972.14	\$116,828.00

Task 7 Deliverables:

All deliverables are anticipated to be provided electronically, except for the paper copies required for agencies/utilities/permitting authorities.

- Submittal (all types) Reviews (pdf files)
- RFI responses (pdf files)
- Contract Change Drawings (pdf files)
- Record drawings (pdf, GIS and native design files)

The Consultant, City and Construction Manager will utilize Procore to review and process submittals and RFIs.

TASK 8 CONSTRUCTION MONITORING

Construction phase monitoring is assumed to provide data to the city on a routine basis. Reports will be provided electronically once the data is reviewed. City is assumed to post the data on their website so that the public may view it.

Task 8.1: Construction Groundwater Monitoring

This scope includes continued monitoring of the existing vibrating wire piezometers (VWPs) that were installed for the UFES and Conveyance packages during the design phase. The original scope included monitoring for 2 years. Consultant has continued to monitor the VWPs installed past the originally assumed 2 years. This item includes budget for the future monitoring around UFES and deeper excavations along Conveyance pipelines.

- UFES Construction Monitoring VWPs: Daily for 1st week, then weekly for 1 month, then monthly for 2 years (2 years total of monitoring, 5 total VWPs). This reporting was increased to weekly. Currently, the City has requested weekly monitoring and reports as requested for 30 more months. Average level of effort for each is \$5,985.00. For 30 Remaining months the total required is \$179,550.00.

Deliverables: Groundwater Monitoring Reports

- Additional reporting required to support the City's website.

Task 8.2 - Tieback & Shoring Observation

No Changes

Task 8.3 - Micropile Observation

As Geotechnical Engineer of Record (GEOR), Consultant is required to be onsite full-time during critical construction elements such as foundation construction. Micropiles are considered part of the foundation system, therefore observation from the GEOR will be needed. Consultant will sign off as GEOR for the micropile foundation system.

- Geotechnical observation during installation of production micropiles: Assume additional support for observation of all micropiles.

Deliverables:

Review micropile load test results and prepare approval letter.

Production Micropile observation summary letters for UFES (Assume 2 letters)

Task 8 Assumptions:

Reference Table 2 for assumptions.

CONTRACT DURATION

The scope of work assumes that the current contract expiration date will be extended to December 31, 2024.

Exhibit B11

Project Schedule

Basin 2 and 3 Collection System Improvements

Project 46S003

The schedule table below shows the tasks that are anticipated, in progress or have been completed as part of the Basins 2 and 3 project.

Task	Start Date	End Date
Task 1 – General Services	In progress	12/31/2024
Task 2 – Alternatives Analysis	Completed	
Task 3 – Pre-Design Investigations	Completed	
Task 4 – Preliminary 30% Design	Completed	
Task 5 – Final Design	In Progress	12/31/2021
<i>El Camino Real – North</i>	In Progress	12/31/2021
<i>El Camino Real - South</i>	In Progress	12/31/2022
Task 50 – UFES VE -	Completed	
Task 6 – Bid Phase Services	In Progress	3/31/2023
Task 7 – Engineering Services During Construction	In Progress	4/30/2024*
<i>SST-14</i>	Completed	
<i>Lift Stations</i>	In Progress	10/31/2021
<i>Dale Avenue Pump Station</i>	In Progress	12/31/2021
<i>UFES</i>	In Progress	10/31/2023
<i>Pacific Boulevard Force Main</i>	In Progress	12/31/2021
<i>Delaware Relief Sewer</i>	10/1/2021	10/31/2022
<i>El Camino Real – North</i>	1/15/2022	4/30/2023
<i>El Camino Real – South</i>	1/15/2023	4/30/2024
Task 8 – Construction Monitoring	In Progress	10/31/2023

*Record drawings assumed after construction completion.

Exhibit C11**FEE ESTIMATE****San Mateo****Basins 2 and 3 Collection System Improvements
Project 46S003**

Task	Budget	Amendment	New Task Total	Total Hours	Labor	Subs	Expenses	Total
Task 1 - General Services	\$2,375,353.86	\$37,132.64	\$2,412,486.50	166	\$34,745.16		\$2,387.48	\$37,132.64
Task 2 - Alternative Analysis	\$1,229,000.00	(\$226,212.06)	\$1,002,787.94					(\$226,212.06)
Task 3 - Pre - Design Investigations	\$2,400,198.00	\$13,777.08	\$2,413,975.08			\$13,777.08		\$13,777.08
Task 4 - Preliminary (30%) Design	\$1,625,970.00	(\$654,786.99)	\$971,183.01					(\$654,786.99)
Task 5 - Final Design	\$5,365,684.00	\$1,550,014.03	\$6,915,698.03	8454	\$1,395,012.63		\$155,001.40	\$1,550,014.03
Task 6 - Bid Phase Services	\$247,446.00	\$18,910.40	\$266,356.40	166	\$17,019.36		\$1,891.04	\$18,910.40
Task 7 - ESDC								
Task 7.1 - SST14	\$157,691.50	(\$67,789.34)	\$89,902.16					(\$67,789.34)
Task 7.2 - Lift Stations	\$370,353.89	(\$216,995.64)	\$153,358.25					(\$216,995.64)
Task 7.3 - DAPS	\$587,528.00	\$170,736.04	\$758,264.04	350	\$61,464.97	\$102,441.62	\$6,829.44	\$170,736.04
Task 7.4 - UFES	\$786,735.27	\$0.00	\$786,735.27					\$0.00
Task 7.5 - Pacific	\$0.00	\$108,477.00	\$108,477.00	522.5	\$90,564.03	\$10,500.00	\$7,412.97	\$108,477.00
Task 7.6 - Delaware	\$0.00	\$221,695.00	\$221,695.00	1063.5	\$185,620.36	\$21,000.00	\$15,074.64	\$221,695.00
Task 7.7 - ECR North	\$0.00	\$117,051.00	\$117,051.00	663	\$106,696.23	\$0.00	\$10,354.77	\$117,051.00
Task 7.8 - ECR South	\$0.00	\$116,828.00	\$116,828.00	712.6	\$106,855.86	\$0.00	\$9,972.14	\$116,828.00
Task 8 - Const Monitoring - LS	\$105,483.00	(\$94,974.90)	\$10,508.10			(\$94,974.90)		(\$94,974.90)
Task 8 - Const Monitoring - UFES	\$348,542.37	\$246,729.98	\$595,272.35			\$246,729.98		\$246,729.98
Total	\$15,599,985.89	\$1,340,592.24	\$16,940,578.13	12097.6	\$1,997,978.60	\$299,473.78	\$208,923.88	\$1,340,592.24

Notes: Values shown in red are budget transfers from tasks that are underspent and have been closed at the direction of the City's Project Manager