



DEPARTMENT OF PUBLIC UTILITIES

CAPITAL IMPROVEMENT PROGRAM

LARGE CONSTRUCTION CONTRACTS

CHANGE STATUS REPORT

January 7, 2019
(Data through December 31, 2018)

Includes data for the following contracted projects:

Friant-Kern Canal Pipeline	WC00038-FKCP	Mountain Cascade Construction Co.
Kings River Pipeline	WC00057-KRP	Garney Construction Co.
Southeast Surface Water Ttmt Facility	WC00057-SEWTF	W.M. Lyles Company
Regional Transmission Mains B/C	WC00065-RTMFD (Segments B&C)	Vido Artukovich & Son, Inc.
Recycled Water Transmission Main SW1B	TC00096-SW1B	Garney Construction Co.
Recycled Water Transmission Main SW1C	TC00096-SW1C	Garney Construction Co.
Recycled Water Transmission Main SW1C2	TC00096-SW1C2	Bill Nelson GEC, Inc.

Closed projects (data included in prior reports):

Water Storage Tank T-4	WC00061-TNK04	Mountain Cascade Construction Co.
Recycled Water Transmission Main SW1A	TC00095-SW1A	Floyd Johnston Construction Co.
Regional Transmission Mains A1	WC00065-RTMFD (Segment A1)	Mountain Cascade Construction Co.
Regional Transmission Mains A2	WC00065-RTMFD (Segment A2)	Floyd Johnston Construction Co.

The Enterprise Accountability and Oversight Act (adopted by City Council on February 26, 2015) and the Construction Management Act (adopted by City Council on May 21, 2015) provide for an Oversight Board to review and evaluate General Fund or Enterprise Capital Projects in excess of \$20 million.

This report summarized construction contract changes for all active Department of Public Utilities (DPU) Capital Improvement Projects valued at \$20 million or greater, and select other significant projects.

Construction Contract Change Item Descriptions (CID)

Project Name: **Friant-Kern Canal Pipeline Project**
 Project Number: **WC00038-FKCP**
 Data Date: **12/31/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$15,157,862	\$14,857,862	500
Approved Contract Change Orders:	\$929,515	\$929,515	96
		6.26%	
Current Contract Value:	\$16,087,377	\$15,787,377	596

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Total			\$929,515	96	\$0	\$0	\$1,510,582	0
Change Order Requests								
Claims	Claims						\$1,510,582	
Requests for Proposal								
None	None							
Work Change Directives								
None	None							
Change Orders								
CCO 001	Contract Change Order No. 1	WCD 001 -Excavation on Burrows: Contractor provided labor and equipment to support excavation of burrows per environmental permits. Cost increase of \$54,432.86. RFP 001 -- Tracer Wire Credit: Design Engineer recommended that the tracer wire is no longer needed for this project. Cost credit of \$6,883.00 RFP 002 -- Access Vault Detail: Additional gravel was added to precast manholes as well as sump drain in order to be consistent with all Recharge Fresno Program projects. Cost increase of \$6,233.22. RFP 003 -- Stilling Well Detail: The stilling well utility box at the diversion site was changed to larger configuration as the specified unit was too small. Cost increase of \$339.66. RFP 004 -- Elimination of Pipe Joint Diapers: Contractor provided a credit to modify the exterior pipe joint corrosion protection to use additional depth CLSM backfill in lieu of hand placing cement mortar grout. Cost credit of \$124,397.00	\$54,433 (\$6,883) \$6,233 \$339.66 (\$124,397.00)	0				
CCO 002	Contract Change Order No. 2	COR 001 - This change was initiated by the City to replace lights on the pre-cast building with LED versions and also to eliminate the alarm system which will be covered by a separate contract. \$2,358.71 COR 002 - This change for additional cable was a resultant of RFI 095 when it was determined the length of cable shown on the plans is not of sufficient length. \$9,116.35 COR 004 - This change is associated with all extra work associated with the corrections necessary to bring the fencing of the Leshar Property into agreement with the Leshar MOU including purchase of "split" red cedar posts, removal of previously install red cedar post and replacement with "split" red cedar posts as defined in the Leshar MOU. \$29,822.59 RFP 005 - This change implements grating manufacture Anvil International recommendation for additional welded steel support brackets at the edge of the grating were needed to provide a safe working platform for City workers. \$1,445.90 RFP 006 - This change adds conduits to provide the necessary connections to support radio communications between the NESWTF and the Friant Kern Canal turnout site. \$1,669.50 RFP 008 - This change modified the coating on small diameter pipe specials from epoxy to an industry standard asphaltic coating to expedite the fabrication and provide a credit to the City of \$11,068.75 RFP 012 - This change adds small diameter air relief vents in the pipe access manways to provide a long term means to support the City's future maintenance. \$19,757.72	\$2,358.71 \$9,116.35 \$29,822.59 \$1,445.90 \$1,669.50 (\$11,068.75) \$19,757.72	0				

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
CCO 003	Contract Change Order No. 3	COR 003 - Due to extremely wet winter Garonne Road had to be used for construction access. Construction traffic severely damaged the existing pavement resulting need to repair road. A two inch AC overlay will be used to repair from construction traffic. Cost will be divided 60/40 between the City and Contractor. The City's share is 60%. \$38,700	\$38,700.00	0				
		RFP 011 - This change provides repairs to a section of private road (Foothill Lane and Old Clovis Ave) due to damage by construction. The environmentally permitted construction zone in this area provided insufficient space for the necessary construction activities, and MCI used the private road for access. \$25,500	\$25,500.00					
		RFP 007 - Contract specifications require the development of a paleontological monitoring and mitigation plan for the Project. A plan was prepared and called for on-site paleontological monitoring during certain phases of the Project. Specifications indicated that costs for paleontological monitoring, if required, would be paid by the Owner. \$23,454	\$23,454.00					
		RFP 010 - This change provides modifications to the Foothill Lane roadway replacement design in response to emergency service agencies requirements to include gravel shoulders for passing and a widened roadway section at the Auberry Road intersection. Gravel shoulder will be on one side and 7 feet wide. \$35,486	\$35,486.00					
		WCD 002 - This change provides weather related maintenance required to Foothill Lane temporary road to maintain safe access to residents and emergency responders. \$85,000	\$85,000.00					
		WCD 005 - Additional ventilation equipment was required for confined space entry to allow for inspection of the existing pipe that this project will be tying into. Existing pipeline was installed 10 years ago and has not been used. Contractor provided last-minute equipment for City inspection. \$3,755.50	\$3,755.50					
		WCD 006 - Additional costs associated with necessary changes in construction methods which were required due to inclement weather, including import of prepared cementitious backfill material (in lieu of on-site preparation) and reverse laying of ten 60-inch diameter pipe joints. Work was required to be completed during the wet season in order to meet schedule requirements associated with operation of adjacent Garfield Water District pipeline. \$72,500	\$72,500.00					
CCO 004	Contract Change Order No. 4	COR 007 - CTS Shutdown Equipment Impacts - The associated cost are relative to the ceased and desist order issued by the California Department of Wildlife and Fisheries in conjunction with the US Bureau of Reclamation as a mechanism for the preservation and protection of the California Tiger Salamander. Equipment was left unused during the order.	\$27,000.00					
		WCD 009 - NESWTF Redesign Total - This change is for costs associated with the recent redesign of water supply piping connecting the FKCP to the NESWTF plant. The purpose of the change was to provide the City with flexibility to feed the NESWTF from multiple sources simultaneously for improved water production reliability. WCD 009 supersedes WCD 003 REV1 Procurement of NE Redesign Materials and WCD 004 Procurement of Flow Meter Spool Pieces.	\$493,000.00					
		COR 009 - Excess inclement weather days. MCI requested a total of 140 Inclement Weather Days (IWDs) through May 03, 2017. Parties agreed that a total of 109 IWDs are valid. Since the contract baseline includes an allowance of 13 IWDs, a total of 96 excess IWDs will be added to the contract time. The June/July 2017 Schedule Update incorporates the 96 excess IWDs as well as accurate activity status data through July 2017 including the time impacts of the contractor's claimed delay events. Both parties agree that the June/July 2017 Schedule Update shows full schedule recovery with 28 days of float. The contractor agrees that the June/July 2017 Schedule Update sets schedule Activity TEST 110- Pressure Test 60" and 42" Pipe to start on or before September 1, 2017. This will provide at least 30 calendar days to complete the activity and effect any necessary leak repairs (i.e. excavation to expose leaks) prior to the start of CTS breeding season on October 1, 2017.	\$0.00	96				

Construction Contract Change Item Descriptions (CID)

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CCO 005	Contract Change Order No. 5	This change includes the items listed below which were negotiated on November 15, 2017 and included as one total cost: COR 005: Contractor requested change due to groundwater and what they claimed is incompetent subgrade to support installation of replacement RCP for the Garfield Water District (GWD) line. Initial installation by Contractor of piping with subgrade backfill (sand) as specified by GWD, failed. Contractor requested and received permission from GWD to remove specified subgrade backfill which had failed and replace with 3/4" crushed rock. Contractor seeking reimbursement for 3/4" crushed rock. Acceptance of this change includes MCI's waiver of all other claims associated with the Notice provided in MCI SL No. 013, Transmittal No. 149, Dated April 14, 2017. COR 008: PCO No. 014: Contractor requesting reimbursement for flooded work area during installation of intake structure in Friant-Kern Canal. Contractor claims storm water releases by USBR into Friant-Kern Canal exceeded 300 CFS. Specification required Contractor to design coffer dam to withstand 300 CFS releases into canal during construction. Contractor contends flows exceed 300 CFS on the date mentioned in PCO No. 14 and flooded the work area. COR 010: This request of change pertains to the presence of groundwater which the Contractor claims is not indicated in the Contract Documents near station 316+00. COR 012: Contractor had mobilized their paving subcontractor, CalValley, to complete paving through Change Order No. 004. CalValley had to demobilize per the request in the last item below. COR 013: Contractor requested extra compensation due to a change in the start date for work in the Friant-Kern Canal. COR 014: Compensation for an unmarked conduit found in the NESWTF zone.	\$14,250.00					
		COR 011: This change recognizes a changed condition caused by the presence of Tiger Salamander larvae in the work zone. Work was restricted, and additional work was required to build boxes around dewatering pumps such that the larvae would not be harmed.	\$1,773.00					
		Per Change Order No. 003, COR 003 and RFP 011, the contractor was authorized to repair private access roads (Old Clovis and Garonne Avenue) within or adjacent to the construction zone that have deteriorated during construction. The City is in the process of obtaining a waiver/release from the impacted Foothill residents authorizing the repairs and indemnifying the City and MCI from any further road related damage claims. However, the residents intend to make additional road repairs beyond what the City and MCI have agreed to do. This change modifies the scope of work by directing MCI to provide a single \$90,000 remittance to the residents' escrow account as named in the waiver/release documents and to not perform any remedial work as previously required. Once the \$90,000 remittance is made, MCI can bill the City \$65,000 as authorized by CCO 003.	\$0.00					
CCO 006	Contract Change Order No. 6	WCD 008: Based on the lack of complete information in the Contract Documents and the City's actual needs at the turnout control building, MCI is to install a door proximity switch and keyed bypass provided by the City. The switches will be wired to slot 2 channels 0 and 1, respectively, of the turnout control building ICP as indicated in the I/O list as a part of the response to RFI No. 110.	\$2,621					
		WCD 011: The current design has a misalignment with the proposed tie-in location for Well 185 at the Northeast Surface Water Treatment Facility. The current design requires the Contractor to tie into the valve that tee's off the existing line coming from Well 185. This connection point is 6'3" off station and 5 15/16" higher than the outlet on the 36"x 12" WS tee. Per this WCD, the Contractor is to provide costs for the additional materials to make this connection.	\$8,206					

Construction Contract Change Item Descriptions (CID)

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		WCD 015: The current approved recycled Class II AB material which is acceptable base material under the AC on Foothill Lane will not make a suitable driveable surface for the shoulder due to dust concerns. Contractor is directed not to place the recycled AB material presently on site and use a recycled asphalt grinding.	\$10,950					
		WCD 016: This WCD is in direct relation to work work described in WCD 012. The purpose of this WCD was to hold the excavator on-site for improvements in Big Dry Creek. The contractor was going to move the equipment off-site because they are done with the equipment for other work. Standby costs were occurred to keep the equipment on-site.	\$2,608					
		WCD 017: After conversations with USBR, the original pitot tube locations will no longer work. Only one pitot tube is now required, and the pitot tube is now longer than originally anticipated. At the currently location, there is not enough room to fit the pitot tube into the pipe. Therefore, the hole will now have to be located on the upper portion of the pipeline to allow for enough clearance.	\$1,121					
		WCD 018: Due to the high rain fall and the poor surface drainage on Willow Avenue in the vicinity of the FKCP pipeline the subgrade material became saturated causing the pavement to fail. The previously place subgrade and pavement which was place by the Contractor as per specification was removed. As there appears no changes will be made to the drainage at the intersection Of Willow and Copper before the next high rainfall event which will lead to flooding. The Contractor was directed to replace the subgrade material with CLSM to within 9 to 10 inches of finish grade. The pavement was place on top of the CLSM. The CLSM will resist infiltration by standing water into the subgrade and will prevent subgrade and pavement failures in the trench zone in the future. This action should prevent the City from having to make repairs to the pavement in the trench zone for the foreseeable future.	\$63,522					
		WCD 019: Similar situation existed in the trench zone on Copper Ave as was described for Willow Ave in WCD 018 (please review Change Item Description for WCD 018). The previously installed subgrade material and pavement was installed as per specification. The subgrade and pavement failure was not a result of poor workmanship by the Contractor. To correct the subgrade issue and to prevent the issue from reoccurring in the future, the existing pavement and subgrade material was removed by the Contractor. At the direction of the CM the Contractor replaced the subgrade material with CLSM to within 9 to 10 inches of finish grade. The pavement was placed over the CLSM, this process should prevent the need of the City to address any pavement issues in the future in this area. A county of Fresno inspector was present during the repair process.	\$88,514					
		WCD 024: Contractor had demolished two trees along Willow Avenue for pipeline construction. The City will be replacing these trees in lieu of the Contractor replacing them. Therefore, this WCD is for a credit for the trees.	(\$300)					
		COR 015: Change order addresses the cost for the addition of re-enforcing steel (rebar) to a concrete slab at the intake structure. The contract drawing omitted a detail and call out for the rebar.	\$3,103					
CCO 7	Contract Change Order No. 7	COR 017: The pipe support as designed was in conflict with nearby fittings. Contractor had to move the pipe support.	\$5,112					
		COR 016: This change covers the cost for the Contractor to remobilize to approximate pipeline Station 106+50. During initial work at this location, a high-voltage buried electrical cable was discovered that was not marked on the plans. The cable was in direct conflict with the pipeline and required relocation by PG&E. The relocation effort required approximately 6 months to accomplish. The additional cost associated with this change is to cover the cost of remobilizing equipment to the location as well as extra labor and equipment associated with out-of-sequence joint closures. The cost does not include the labor, materials, and equipment to perform original contract work.	\$32,910					

Construction Contract Change Item Descriptions (CID)

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		WCD 014: This change adds repair of interior cement mortar lining of an existing 60-inch diameter pipeline. The new sections of the Friant Kern Canal Pipeline connects to both ends of the existing pipeline installed 10-years ago across the Clovis High School Campus. The City's inspection of the existing pipeline revealed numerous interior mortar lining deficiencies that required repair before the new pipeline was connected. The cost includes the labor, materials, and equipment required to repair the lining.	\$35,087					
		WCD 020: The change adds a prefabricated metal platform inside the meter vault to allow for safe access to a pitot tube flow measuring device. The US Bureau of Reclamation (USBR) uses the pitot tube to periodically verify the primary meter. The cost includes the labor, materials, and equipment required to provide and install the platform.	\$7,931					
		WCD 022: This change adds fencing at the lay down/ storage yard on Armstrong Avenue. The existing fencing which was removed or damaged during construction is to be replaced as per contract on the west, north and east sides of the yard. The new fencing is to tie into the existing fencing on the remainder of the property. The replacement fencing will be installed at the unit price as per the bid item for fencing.	\$2,040					
		WCD 023: This change is to furnish and install stainless steel banding for the pipe maker signs at the Northeast Surface Water Treatment Facility in replacement of the plastic cable ties which were provided with the signs. The specified plastic ties are not appropriate for long outdoor use.	\$1,180					
		WCD 025: This change is to replace a gate for a private property on Armstrong Avenue, which was found to be affected by the construction but not shown on the contract drawings to be replaced.	\$1,406					
		COR 013, COR 006a, COR 006b, WCD 013, and CITY INSPECTION OVERTIME: This item resolves the disputed costs associated with five change items: 1) COR 013 – Clean-out Trench from Stop Work Notice; 2) COR 006a – Nesting Birds in Work Zone (05/03/17 to 05/30/17); 3) COR 006b -- Nesting Birds in Work Zone (06/013/17 to 07/14/17); WCD 013 – NESWTF Buttstraps; and Reimbursement of City Inspection Overtime. The net result of this resolution is a \$145,000 cost increase to the Contract. A summary of each of the five items as follows: COR 013 – Clean-out Trench from Stop Work Notice: An environmental Stop Work Notice was issued on December 02, 2016 due to discovery of a CTS in the work zone. Environmental agencies required the shutdown to adjust mandatory exclusion fencing. The stoppage extended into a period of extreme weather, during which time the trench was flooded with mud. The Contractor was required to remove the mud (unsuitable soils), before backfilling. Contractor claimed this event was beyond their control. COR 006a & 006b -- Nesting Birds in Work Zone (05/03/17 to 07/14/17): Nesting migratory birds were found within the work zone, and all activity was precluded within 150 feet in all directions. The Contractor had equipment within the exclusion area and could not proceed until the birds fledged. Within a few days of the first fledging, a new migratory bird nest was found. This amounted to a period of approximately 2 ½ months. Contractor claimed this event was beyond their control. WCD 013 NESWTF Buttstraps: Contractor was required to connect newly installed pipe to an existing pipeline. The location shown on the Contract drawings was based on City records, and it was approximately 5-feet off in a horizontal direction. Extra work was required to make the connection. Contractor claimed this event was beyond their control. Reimbursement of City Inspection Overtime: The Contract requires the Contractor to reimburse the City for all overtime charges for City Inspectors on the project. Contractor claimed that all City Inspection Overtime time may not be directly related to actual Contractor work.	\$145,000					

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 015 - Contract Bid Item Adjustment: Additional potholing required which exceeded original number in the Bid Item. Contractor received approval from the Construction Manager to bill Bid Item 8 Pothole Existing Utilities for 15 additional pothole locations.	\$11,250					
		RFP 016 - Contract Bid Item Adjustment: Bid Item No. 13 - 60" Diameter Raw Water Pipeline - This change item deletes 22 linear feet of 60 inch diameter welded steel pipe, which was originally part of the quantity estimated in the bid documents. Substantial Completion for the project has been recorded as 11/17/2017, total quantities installed and payment amounts have been confirmed and necessary project work has been completed. Therefore, this Bid Item is being adjusted to provide credit to the City. Credit \$7,892.32	(\$7,892)					
		RFP 017 - Contract Bid Item Adjustment: Construction Manager, as allowed by the Bid Item, directed the Contractor to install additional gates as needed. The Construction Manager approved the Contractor to bill Bid Item 32, Access Drive Gate for Barbed Wire Fence, for an additional 8 gates based on field	\$11,900					
		RFP 018 - Contract Bid Item Adjustment: Bid Item No. 38 - Supplemental Work - This item was established for completion of authorized extra work in accordance with Section 3, "Changes in Work", of the Standard Specifications. Substantial Completion for the project has been recorded as 11/17/2017, total quantities installed and payment amounts have been confirmed, and necessary project work has been completed. Therefore, this Bid Item is being deleted from the Contract. Credit \$300,000.	(\$300,000)					

Construction Contract Change Item Descriptions (CID)

Project Name: **Kings River Pipeline Project**
 Project Number: **WC00057-KRP**
 Data Date: **12/31/18**

	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$45,583,750	\$45,083,750	575
Approved Contract Change Orders:	\$705,553	\$705,553	204
		1.56%	
Current Contract Value:	\$46,289,303	\$45,789,303	779



APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Total			\$705,553	204	\$0	(\$302,294)	\$3,798,920	66
Change Order Requests								
Claims	Claims						\$4,272,447	66
COR 036	Reimbursement for Rectifier Design & Maint. NCN 003	On August 24, 2017 it was determined that the pipe primer coating being applied to the KRP pipe was not per specification. On August 28, 2017 Non-Conformance Notice 003 (NCN 03) was issued to Garney Construction concerning the pipe primer. NCN 03 noted that it had been determined that the primer process had been changed by the pipe manufacture without notice. Garney was given the options to remediate this non-conformance by either excavating to expose and repair each joint of pipe which had been manufactured since June 1, 2017 and installed or to install an impressed current cathodic protection system. The cost of the system included design and future maintenance fees. Garney selected the installation of the impressed current system. During the past several months a series of negotiations between the City and Garney have taken place. During 2018 the original pipe manufacturer Ameron was purchase by Northwest Pipe Company. This change in ownership brought forth a revised offer from Northwest Pipe through Garney Construction. After review by City management the revised offer was accepted. The offer will be incorporated as a credit in a change order to the project.				(\$296,148)		
Requests for Proposal								
Credit Disputes	Credit Disputes						TBD	
RFP 006	Credit - Treatment of Water in the Pipe of Sections 2, 3, and 4	Contractor requested by RFI relief from the specification requirement to treat and remove from three of the four sections of pipeline Sections 2, 3, and 4 (STA 180+22.65 to 671+47.10).The City agreed to allowed the Contractor to leave water in the pipe as requested. The total estimated volume of water was 1,388,260 cu ft. This change in scope save the Contractor time and reduced their water disposal costs. Contractor is provide the City with the cost of treating the water from Section 1 so the City can pro-rate the per volume and calculate the credit due for not treating and discharging the water in pipeline Sections 2, 3, and 4.					(\$43,900)	
RFP 007	Credit - Placement of CLSM Over Pipe in Cobble Zone	Per the Contract Documents, the Contractor was to place CLSM a minimum of 1 FT over the top of pipe in the cobble zone area (eastern 17,000 FT of pipe). Through RFI 065 and RFI 071 the Contractor received permission to modify the trench backfill in regard to placing CLSM (slurry) to 1 FT over top of pipe. The methods approved in RFI 065 allowed the Contractor to reduce the amount of CLSM applied for trench backfill to springline (middle) of the pipe which is similar to areas outside of the cobble zone. This change reduced the applications (placement) of CLSM from 3 to 1 placement, which resulted in considerable saving in time and CLSM material. The estimate of CLSM not placed is 10, 055 yd³ Total cost of material not placed is 10,055 yd³ at \$40.50/yd³ is a credit of \$407,227.50.					(\$35,100)	
RFP 008	Credit - Turbidmeter Installation Inside the Meter Vault	Per City request, the Contractor was directed to not install the turbidmeter inside of the meter vault as shown on the project drawings. Initially, the turbidmeter installation was to be moved from the vault to the Diversion Site's new electrical enclosure but the City decided to have the additional work associated with the electrical enclosure completed outside of this contract. Credit is due for work removed from the contract.					(\$1,000)	
RFP 009	Credit - Professional Photographer	The Contractor failed to provide professional construction photos as per Specification Section 01 32 34 PHOTOGRAPHIC AND VIDEOGRAPHIC DOCUMENTATION Part 1.08. The Contractor is to also provide post-construction photos completed by a professional photographer.					(\$28,500)	

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RFP 010	Credit - Project Scheduler	Per specification 01-32-16-4 CONSTRUCTION SCHEDULE, the Contractor must employ or retain the services of a Project Scheduler. The Contractor failed to use a Project Scheduler for several months during the contract. Contractor to provide a credit to the City for the four to five month lapse where a Project Scheduler was not assigned to this project.					(\$12,500)	
RFP 011	Credit - Installation of Remaining Bollards	It was determined that a total of 257 bollards were purchased by the Contractor for this project of which 195 were installed, leaving 62 bollards uninstalled. The Contractor delivered the 62 uninstalled bollards to the City and will provide a credit for the labor and incidental material for the installation of the 62 bollards.					(\$39,681)	
RFP 012	Credit - Well Development Logs	Per Project Specification Section 31-23-19 Part 1.05.B.1-4, describes what is to be included in the Well Construction Logs. The Well Construction Logs Garney provided for 93 dewatering wells which were installed by the Contractor do not meet the the contract requirements. The Contractor provide the Well Construction Logs several months after the dewatering wells were installed. Contractor is to provide a credit for work not completed.					(\$46,500)	
RFP 015	Credit - Vehicular Rumble Strips	The City purchased two (2) vehicular rumble strips via WCD 002 to be used in the construction staging areas' common entrances on Olive for Recharge Fresno contractors and staff. In lieu of delivering the rumble strips to the City, the Contractor has agreed to provide a credit.				(\$5,146)		
RFP XXX	Restoration of County of Fresno Right-of-Way (ROW) effected by Construction	The City received a list of 8 items from the County of Fresno regarding work the County deemed necessary to restore the areas of the County ROW along Belmont Avenue to pre-construction condition. The Items included removal and replacement of a a driveway which is inhibiting surface drainage, AC dike backing, plus grading of shoulders for surface drainage. The County provided a cost estimate associated with each item on the list.					(\$112,150)	
RFP XXX	Inspection Time for Investigation and Repair on Non-Compliant compaction of backfill around and under appurtenances. NCN 012	This is a charge for the time spent by City Inspectors during the investigation of the compaction around the KRP appurtenances (Combination Air/Vacuum Releases and Blow-off structures) and the time required to inspect the rework of the non-compliant backfill. After construction was completed it was noted that the pavement in the road shoulders adjacent to some of the appurtenances was subsiding. The repair of these areas of subsidence revealed that the backfill had not be compacted as per specification. This lead the City investigate the compaction of the backfill around and under the appurtenances where the subsidence of the paved shoulders had been observed. This investigation found that the backfill around and under these appurtenance slabs was not per specification. The City investigated the compaction of all of the remaining appurtenances and found in almost all instances the backfill compaction was non-compliant. The Contractor was issued Non-Compliance Notice 012 and directed to correct the deficiency. The time required to inspect this rework is included in these costs					(\$60,696)	

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APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
RFP XXX	Repairs to City Sewer Line on Armstrong Avenue south of the intersection with Harvey Avenue NCN 011	The cost associated with this RFP represent the estimated cost to repair one joint of the City of Fresno 8-inch sanitary sewer line which runs north to south in Armstrong Avenue. During the installation of the KRP pipeline in Armstrong Avenue the Contractor damaged the City's 8-inch sanitary sewer line which runs parallel to the KRP pipeline. This damage was found when the City's sanitary sewer maintenance crew inspected the sewer line with an internal video camera. The video inspection revealed several joints of sewer line with what appeared to be "pulled joints" and a reverse grade. Non-Compliance Notice 011 was issued for failure to protect existing facilities. The Contractor made the repairs noted in the original inspection video. A second video was conducted by the City to confirm the repairs had been made. In this video the City made mention of several joints of pipe to the south of the repair which appeared to have been deformed (egg shaped joints). The City's sanitary sewer maintenance personnel stated that the deformed pipe was a result of the Contractor activities during installation of the KRP pipeline or the repairs to the previously found damage. To determine if the sewer line was out of compliance a 7.25-inch diameter mandrel was pulled through the pipe from two directions. Each time the mandrel would not pass one joint of pipe at the same location. A second mandrel of 7-inches in diameter was obtained and this mandrel passed through the entire length of the pipe. The joint in question is out of compliance with City standard and requires repair.					(\$94,500)	
Work Change Directives								
None								
Change Orders								
CCO 001	Contract Change Order No. 001	Contract Time Extension: Contract time extension granted with concurrence that additional time was needed to complete the proposed work and recognizing that time extension would not impact negatively impact ability to comission SESWTF on schedule. This is a no cost change for this CCO.		60				
CCO 002	Contract Change Order No. 002	COR 002 - Change was initiated by the City to pay for additional signage for the Belmont Nursery as well as the Belmont Country Club.	\$3,950					
		COR 003 - This change was initiated by the City to pay for the uplift labor cost to work on three Saturdays to ensure the Diversion Structure was completed ahead of schedule to support FID need to release water.	\$8,353					
		RFP 002 - State of California law requires pre construction survey monument location data to be filed with the Fresno County Surveyor. This was not included as a contractor responsibility in the contract documents, the contractor was requested to provide a proposal to add the work. After reviewing the contractor's proposal, the City decided to use the design engineer's surveyor.	\$47,745					
		RFP 003 - This change responds to Design Engineer's recommendation that tracer wire is no longer needed for this project.	(\$17,958)					
		WCD 002 - This change adds vehicular rumble bars and gravel surfacing at the construction staging area common entrance from Olive Ave. This entrance is shared with three Recharge Fresno Program contractors and the common area surfacing was not included in any individual contract.	\$12,740					
CCO 003	Contract Change Order No. 003	COR 001 - Paleontological Monitoring: Contract specifications require the development of a paleontological monitoring and mitigation plan for the Project. A plan was prepared and called for on-site paleontological monitoring during certain phases of the Project. Specifications indicated that costs for paleontological monitoring, if required, would be paid by the Owner.	\$127,333	0				
		COR 004 - This change was a negotiated solution to changes in the specifications to address the County's requirements for 2-way traffic in the construction soft closure zone.	\$56,056					
		COR 005 - Change Order Request is a result to field changes in the position of the traveling screen at intake verse position in approved submittal. As a result of the position change the prefabricated grates and support beams required modification. This change addresses costs associated with the modifications.	\$8,389					

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
CCO 004	Contract Change Order No. 004	RFP 004: The Armstrong Avenue/Harvey Street intersection pavement (pipeline Station 10+00 to Station 14+00) was significantly deteriorated prior to construction, and subsequent pipeline construction activity essentially destroyed the pavement beyond what a normal trench patch would remedy. The City agreed with the County's request to replace the entire paved surface within the intersection. This change directs the Contractor to rebuild the intersection to match the recently installed roadway pavement on Armstrong South of the intersection. The agreed road section consists of 4-inches of HMA over 8-inches of compacted AB with a 2% cross slope (See Rider 19, Item 11 and RFI 064). The City agrees to reimburse the Contractor for a portion of the cost for work that is outside the Contract Scope of Work.	\$52,071					
		RFP 005: This change adds small diameter air relief vents in the pipe access manways covers to allow for release of air during the filling of the pipe, to release pockets of air trapped in the access manways to expedite the pipeline hydrostatic testing, and to facilitate future filling of the pipeline during routine maintenance.	\$15,038					
		WCD 004: This change adds a concrete pad at the Diversion Site electrical panels to allow for a safe all weather work surface. This change was requested by City Operations staff.	\$7,865					
		WCD 005: This change modifies the location of an already installed CARV that was in conflict with a property owner's access gate. The CARV was relocated to	\$5,605					
		WCD 006: This change modifies the location of a CARV that was installed within the right-of-way but too close to the property owner's orchard. The CARV was relocated three feet closer to the Belmont roadway to provided sufficient clearance to the orchard thus reducing the possibility of damage to the CARV.	\$5,605					
		WCD 007: This change modified the standard detail for driveway replacement to the Warmerdam property on Armstrong Avenue. The easement document for the Warmerdam's property requires that access driveways be sawcut and replaced to the edge of the right-of-way. This requirement was discovered after the initial paving was completed and applies to two driveways.	\$5,220					
		WCD 011: This change modifies the location of a CARV that was installed too close to the AT&T pole south of Belmont Ave. The CARV relocated to the East of its planned location.	\$5,605					
		WCD 012: Due to the field change required to pass the pipeline under an existing utility east of Academy Ave which was found to be lower than indicated on the design drawings, the Design Engineer determined the Contractor is to install a pup piece of pipe with an accessway at approximately Station 372+00 to address the change in elevation of the pipeline. This change requires the Contractor to have an addition piece of pipe fabricated and to install said piece at Station 372+00. The installation will require the contractor to expose the previously place pipe, cut and remove a 10 foot section of the existing pipe and replace with the new pup piece containing the accessway. The pup piece will be connected with the use of two welded buttstraps. The Contractor is to then backfill and compact the excavation and then repave Belmont Avenue in the area of the work.	\$101,897					
		COR 006: Adverse Weather Days: Gamey requested a total of 21 Adverse Weather Days (AWDs) from October 28, 2016 to February 20, 2017 as shwon on Page 3 of this Contract Change Order. The CM agreed that a total of 3 Excess AWDs are validated for 2016 and a total of 1 Excess AWD is validated for 2017 through October 31, 2017. This change adds 4 calendar days to the Contract Time for Excess AWDs.		4				
		COR 007: This change addresses a change condition at the intersection of Belmont and Trimmer Springs Avenues. An unmarked 18" irrigation line owned by the Free Water Irrigation District was discovered during pothole investigations. The Contractor was directed to provide a temporary steel beam truss to support active irrigation pipe while the 72" RW pipeline was installed underneath.	\$71,920					
		COR 008: This change adds traffic control measures to the detour route around the work zone from Trimmer Springs Road to Flume Road section of pipeline to moitigate public safety concerns raised by the County and various stakeholder.	\$3,337					

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		COR 009: This change modifies the depth of the pipeline to clear an unmarked communication line that was discovered during pipe installation. A change of slope to the pipeline was required to clear the communication line. The change in slope of the pipe resulted in addition work for the Contractor.	\$3,418					
		COR 011: This change addresses the discovery of a previously unknown, possible historic concrete structure located approximately 8 feet below the ground surface in the pipeline trench. Construction was stopped while the City's project archeologist determined the origin and purpose of the structure. The project archeologist's determination was that the structure should be measured and photographically documented, then broken up and removed by the Contractor. The delay covered two work days and the work necessary to remove the structure.	\$15,828					
		COR 012: This change addresses an unmarked communication line that was discovered while excavating for pipe installation. The communication line was not shown on the project drawing or located in the field by the utility locator. The unforeseen condition caused delays to the Contractor to temporarily support and work around the line.	\$9,325					
		COR 014: This change addresses an unmarked AT&T line at Station 107+95 that was discovered while excavating for pipe installation. The communication line was not shown on the project drawing or located in the field by the utility locator. The communication line was in a steel conduit which the contractor damaged. AT&T was called to repair the damaged line. AT&T found a second steel conduit below the damaged conduit and decided to install the communication line in the second conduit. Second conduit was in conflict with CARV outlet on conveyance pipe. Contractor directed by the CM to move CARV 40 feet to east by installing a straight section of piping out of sequence to avoid conflict. Contractor delayed by AT&T response and need to lay pipe out of sequence to avoid CARV conflict.	\$16,701					
		COR 015: This change addresses two unmarked utility lines in the vicinity of Station 120+00 that were discovered while excavating for pipe installation. The communication line (AT&T) was not shown on the contract drawings or marked in the field by the utility locator. Contractor experienced delays while AT&T responded to the damaged utility.	\$12,537					
CCO 005	Contract Change Order No. 005	WCD 003: Change involves changes to the handrails at the intake to allow for the slide gate actuator to be rotates 180 degrees from its current installed position. As currently designed and constructed, the slide gate actuator will not allow the Rubicon flume meter to be removed for servicing. By rotating the actuator 180 degrees the Rubicon flume meter can be removed for service without disassembly of slide gate actuator over open water of the canal.	\$1,804					
		WCD 014: Due to requests by the residents on Flume Road to improve control of the speed of vehicles being detoured on to Flume Road due to the construction of the KRP pipeline on Trimmer Springs Road. Project Management requested the Contractor to obtain the services of a dedicated California Highway Patrol (CHP) officer to patrol the construction area to reduce traffic speed and to improve the safety to all that travel through the construction zone. As part of this request the City agreed to share in 50% of the cost for the CHP officer.	\$17,252					

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		COR 025: This change item adds thirty-four (34) calendar days of non-compensable Contract Time Extension to the Contract. Garney requested forty-seven (47) calendar days additional Contract Time related to ten (10) CORs/WDCs: COR 07 – Freewater; COR 11 – Weir; COR 18 – Veterans Day; COR 19 – Sugar Sand Riverbend; COR 20 – Tie-in to 29+50; COR 21 – Culvert; COR 23 – Fancher; COR 24 – County Delays; WCD 05, 06, 11 – CAVs; and WCD 12 - Academy Pup Piece. Some of these requests relate to Non-Critical Path work, may be concurrent, or are otherwise not normally considered compensable. This Contract Time Extension is full and just time compensation for the time extension requests identified above as well as any forthcoming COR time extension requests addressing work accomplished prior to January 4, 2018. The Contractor acknowledges that while this change provides non-compensable time for multiple Change Order Requests and/or Work Change Directives, it is not intended to imply the City's acceptance of the merits of the Change Order Requests or Work Change Directive cost proposals. Garney reserves their rights to claim additional direct costs related to the ten changes identified above.	-	34				
		WCD 026: This change item adds a \$100,000 lump sum payment to the Contract as full compensation for Garney's commitment of sufficient personnel and other resources to ensure the KRP is ready in its entirety and in all respects to be filled with water and begin the hydrostatic water testing process no later than 6:00 am on January 22nd 2018. The lump sum payment will only be made if the readiness criteria is achieved to the Construction Manager's satisfaction. This change item also requires the Contractor to provide a detailed testing plan, five (5) days prior to beginning hydrostatic testing, that, at a minimum, itemizes sequence, duration, methods, and procedures for filling the pipe, air venting, soaking the lining, pipeline test section identification, pipeline pressure test, mainline valve leakage test, and appurtenance pressure test.	\$100,000					
CCO 006	Contract Change Order No. 006	WCD 017: The City has requested an enclosure around the electrical panels at the diversion site to keep the electrical equipment in a climate controlled environment and to improve security of the delicate and costly equipment. The construction site has been burglarized several times during the past year due to its remote location and close proximity to the road. This WCD is to allow the Contractor to procure the enclosure as the building has a long lead time.	\$44,727					
		WCD 022: The Contractor is to supply and install Code 170116 Safety Locks with the installation of the removable bollards. Per City's request, this change was to direct the Contractor to purchase an additional 500 Code 170116 Safety Lock's as spare parts to the City.	\$2,633					
		WCD 024: During testing a startup the City discovered the current design did not provide sufficient feedback through SCADA to provide City with the actual status of the sluice gate on the intake structure. The current installation only indicates fully open or fully closed and no status in-between. Currently when the gate is order to close the screen indicates closed even though the closing process is not completed. This change is to add additional wiring and relay to provide the status of the sluice gate during the closing and opening process. This change will allow the operator to read the actual status of the gate in percent open or percent closed. Change requested by the City's operations staff.	\$4,313					
		WCD 026: Per request of the Fresno Irrigation District, the Contractor was directed to provide the expansion module and additional inputs to the PCM-FID panel due to significant discrepancies on the project drawings.	\$13,203					

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		WCD 025: The Contractor was directed to conduct the post-construction survey of all survey monuments within or adjacent to the road right of way, pipeline alignment, or other construction areas. A similar survey was required prior to construction, this post construction survey will determine if construction had any effect on the survey monuments. The results of the monument survey location data will be filed with the Fresno County Surveyor. Contractor to provide a report from the California Registered Land Surveyor to the City's Construction Manager summarizing the results of the post-construction survey and indicating any monuments which have been affected by construction activities. The Contractor will be responsible for repairing any damaged monuments or seeking resolution of any issues which are revealed by the post-construction survey. The post-construction survey and filing with the County was not included as a Contractor responsibility in the Kings River Pipeline contract therefore, will be addressed as a Change Order.	\$37,068					
		COR 010: An unmarked fiber line was discovered while excavating for pipe installation. The fiber line ran parallel to and in some instances in the trench zone. Fiber line had to be supported and moved slightly to allow for pipe installation. The unforeseen condition caused delays to the Contractor.	\$49,785					
		COR 021: This change is associated with an unmarked storm water drain culvert which crossed Trimmer Springs Ave at approximate Station 662+00. The culvert was not the County inventory and was not shown on the project's plans. The culvert was in direct conflict with pipeline which required the culvert to be cut, an portion removed, and pugged to prevent storm water flow into the pipe trench. Permission was required from the County of Fresno to take the storm drain out of service. The City CM directed the Contractor not to proceed until County approval could be obtained. County permission was eventually obtained. Contractor is requesting costs incurred to pothole the utility to determine its exact location, elevation, and loss of production.	\$36,068					
		COR 027: Per the specifications, Contractor is required to test a sample of asphalt emulsion and chip material at the Department of Public Works and Planning Material Laboratory. However, the County informed the CM that the County of Fresno does not have a contract to conduct testing for the Kings River Project and would not be conducting required testing. CM directed Contractor to have a third party lab conduct the testing.	\$4,834					
		COR 028: The Contractor presented costs associated with flushing and testing valves on the appurtenances for pipeline sections 1-4 which consider extra work not addresses in the specification. The total cost of labor from the Contractor for this activity was \$7,268.33. The City offer to share 50% of the cost was agreed to by the Contractor, therefore, the City's share was \$3,634.17.	\$3,634					
		COR 029: The Contractor was working around the tie-in connection piece near station 10+00 and encountered a significant amount of water coming from a pipe owned by Lyles Construction. The Contractor was not aware that this pipe was filled with water so, when the flange was removed on a temporary blowoff, the trench became flooded. This change to discharge the water added two complete shifts, one additional shift at three hours, additional premium time on one shift, and standby charges from subcontractors.	\$52,277					
		COR 030: The Contractor presented costs associated with survey errors that misrepresented the location of two oak trees at the KRP intake. The plans showed the trees well within the fence line, in actuality the trees were in the fence line. To prevent damage to the oak trees the Contractor was directed to place the fence around the trees. This change includes the extra materials and labor for fencing around the trees as well as three hours of standby time as the conflict was resolved.	\$9,620					
		WCD 21: The Contractor was directed to purchase and install a DC blocker per the instructions provided by the DC blocker manufacturer. Per RFI 101, the motor operated valve DC blocker shown on detail 7 of plan sheet 00-CP-003 was not included in the specifications or labeled anywhere else on the project drawings. Upon completion, Contractor is to provide a red line drawing of it's actual location.	\$3,228					

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		This change adds 80-calendar days to the Contract Time. Several items of work were ongoing past the Contract Substantial Completion milestone date. Three of those items of work were Owner caused delays that were concurrent with Contractor caused delays. The Owner caused delayed items of work were completed on May 21, 2018. In accordance with Contract General Conditions Section Claims for Additional Time page 2.18, the Contractor is entitled to a Contract Time Extension of 80-calendar days. The Contractor is not entitled to an adjustment of Contract Price associated with this change of Contract Time since the delays were concurrent with delays within the Contractor's control.	-	80				
CCO 007	Contract Change Order No. 007	WCD 019: This change was a result of an incorrect contract drawing detail. Contractor constructed atmospheric air vents as per contract drawing and discovered after installation that the drawing gave an incorrect vent height. Changes were required to increase the height of the atmospheric air vents to allow them to work correctly.	\$38,978	3				
		WCD 020: Change was required due to lack of sufficient backfill to cover atmospheric vent shutoff valve. A check of the project drawings showed the Contractor installed as per plans, however there was not sufficient existing cover to install shutoff valve below grade. The shutoff valve stem as installed was above grade and created a traffic hazard in the County right-of-way. Contractor was not able to reposition valve as there was insufficient cover along the vent alignment. Apparently additional shoulder grading by the County was not taken into consideration by the design engineer resulting in insufficient backfill cover for the atmospheric vent at this location. Contractor was directed to rotate the valve 90 degrees to change the position of the valve stem from vertical to horizontal to allow for sufficient cover to eliminate the traffic hazard. The rotation of the valve required the purchase and installation of a much larger traffic rated valve box to allow access to the valve.	\$15,559	15				
		WCD 023: During installation of the traveling screen, the on-site manufactures representative repositioned the traveling screen further to the south. This repositioning had not been anticipated in the initial design. The repositioning of the traveling screen resulted in an open area between the screen and the canal which had not been anticipated during design. This open area presented a safety hazard due to the possibility of someone falling into the area between the canal and the traveling screen. To meet Cal OSHA requirements the Contractor was directed to procure and install safety railing.	\$3,728					
		WCD 027: Per County direction, the City directed the Contractor to make a slope modification to the north side of Trimmer Springs Road between Stations 639+20 and 654+50. The work had been previously accepted by the County, however, a complaint by a stake holder in the area raised concern of the steepness of the side slope. This modification required placement and compaction of additional material, removal and repositioning of two over the curb drains, and the re-hydro seeding on the slope.	\$72,965	8				
		WCD 028: Contractor had installed atmospheric air vent as per plans. Due to safety considerations, the City directed the Contractor to relocate the two previously installed bollards away from the edge of pavement, add an additional bollard to east of the air vent, plus add 35 feet of Type A AC in front of the vent.	\$3,378					
		WCD 030: Contractor ordered the pipe marker signs as per the detail shown on the project drawings. The offset direction arrow shown on the project drawing detail was incorrect. Drawing detail did not have note indicating the detail was typical and the offset arrow should point in direction of offset. Contractor was directed by City to order new signs with correct offset directional arrows as approved by the City, to remove existing and install new signs. WCD includes costs of signs, removal of previously installed incorrect sign, and installation of new pipe marker signs.	\$9,186					

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		WCD 031: The County of Fresno revised the County seal coat standard specification after the City of Fresno bid the KRP project. The revised County seal coat specification was adopted from the Caltrans standard which requires the application of a flush coat after the application of the chip seal (seal coat). The flush coat (sand and emulsion) covers the chip seal coat and reduces the risk damage to vehicles and cyclists by the chips (loose gravel). The flush coat application was not included in the original contract bid and was considered extra work by the Contractor. The City, in cooperation with the County agreed to add the flush coat to the chip seal coat process and to cover the additional costs.	\$69,786					
		COR 032: This change order was originally requested to correct safety deficiencies with the conveyor installed with the traveling screen at the KRP intake. Two safety deficiencies were identified after installation of the conveyor which had not been addressed in the specifications, project drawings, or identified as missing during submittal review. These items were necessary to bring the conveyor into Cal OSHA compliance. During further review and with the onset of summer two items were identified as necessary to insure proper conveyor operation. Due to the relative low cost of these changes the original COR was modified to include the other items instead of processing a second COR or WCD. The following are items included in the COR. The addition of safety screens (guards) to protect from entanglement in the exposed lower portion of the conveyor belt and drive gears and the addition of a second emergency stop on the south side of the conveyor. These items bring the conveyor into compliance with Cal OSHA. The non-safety items include splash guards on either side of the conveyor under the wash bar on the traveling screen. The splash guards prevent the wash water from the traveling screen from washing the plant material from the conveyor belt and back into the intake behind the traveling screen. The second non-safety item was the addition of a wash bar beneath the conveyor at the end of the conveyor (dump point). It was found during the summer the conveyor belt dries out before reaching the dump point. The drying of the conveyor causes the plant material to stick to the conveyor belt and not fall off at the dump point. The plant material stayed on the conveyor until the belt past under the wash water from the traveling screen.	\$12,002					
		COR 035: Pavement replacement on east end of Flume Road at the intersection with Trimmer Springs Road. Pavement replacement was necessary due to the pavement damage resulting from the use of Flume Road as a detour during the KRP pipeline installation on Trimmer Sprigs Road. The area replaced was approximately 100 feet by 24 feet, the damage to the pavement was not specifically caused by the Contractor but was the result of the normal traffic which was diverted on to Flume Road during construction. The City had expected additional wear and tear to Flume Road due to its use as a detour. The City had an agreement with the County that any damage to Flume Road would be addressed by the City.	\$20,946					
		Bid Item No. 18 - Supplemental Work - This item was established for completion of authorized extra work in accordance with Section 3, "Changes in Work", of the Standard Specifications. Substantial Completion for the project has been recorded as 6/15/2018, total quantities installed and payment amounts have been confirmed, and necessary project work has been completed. Therefore, this Bid Item is being deleted from the Contract. Credit \$500,000.	(\$500,000)					

Construction Contract Change Item Descriptions (CID)

Project Name: **Southeast Surface Water Treatment Facility**
 Project Number: **WC00057-SESWTF**
 Data Date: **12/31/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$158,766,000	\$157,766,000	1000
Approved Contract Change Orders:	\$3,323,360	\$2,323,360	41
		1.47%	
Current Contract Value:	\$162,089,360	\$160,089,360	1041

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Total			\$3,323,360	41	\$0	\$0	\$0	0
Change Order Requests								
None								
Requests for Proposal								
None								
Work Change Directives								
None								
Change Orders								
CCO 001	Contract Change Order No. 1	RFP 001 - CM Trailer Modifications - Modification of design for CM trailer complex, including reduction in size to align with a revised approach to housing the Program Team and CM teams for SESWTF and KRP projects. Credit \$1,153,313. WCD 002 - Establish Supplemental Line Item - Addition of supplemental task line item and budget to the construction contract in line with City's standard approach to change management and to allow for timely processing of time-critical changes during the course of construction. Cost Increase \$1,000,000	(\$1,153,313) \$1,000,000					
CCO 002	Contract Change Order No. 2	RFP 002 (WCD 001) - Finished Water Reservoir Change - Modification of finished water reservoir configuration to provide an overall cost savings. Credit \$1,552,734.	(\$1,552,734)					
CCO 003	Contract Change Order No. 3	COR 004 -- VECP 001 -- Modify Site Perimeter Block Wall from 6'-6" deep by 1'-0" wide footing to a 1'-6" deep by 3'-6" spread footing to provide the same foundation performance with less excavation, backfill, and concrete. Credit \$34,717.	(\$34,717)					
		COR 004 -- VECP 002 -- Modify the crack control joints in Backwash Sludge Lagoons to provide the same level of shrinkage crack control with less manual saw-cutting and joint sealant. Credit \$62,224.	(\$62,214)					
		COR 004 -- VECP 003 -- Change the Treated Water Reservoir structural underdrain collectors from buried Schedule 80 PVC pipe to and HDPE dual wall corrugated pipe. Credit \$59,633.	(\$59,633)					
CCO 004	Contract Change Order No. 4	COR 006 -- VECP 004 -- The current design calls for a cable trays installed about 20' above grade for routing cables within the Chemical Facility. This proposal relocates these wires to under-slab and in-slab conduits. Spare conduits and concrete encasement are provided. Credit \$100,581.	(\$100,581)					
		COR 003 -- COP 009.1 -- Modifications to electrical feeder breaker DPOPS-1 in the chemical building. Cost increase \$6,429.	\$6,429					
		COR 005 -- COP 014 -- Contract specifications require the development of a paleontological monitoring and mitigation plan for the Project. A plan was prepared and called for on-site paleontological monitoring during certain phases of the Project. Specifications indicated that costs for paleontological monitoring, if required, would be paid by the Owner. Cost increase \$24,938.	\$24,938					
		RFP 023 -- COP 015 -- Minor revisions to security system device locations. Cost increase \$19,573.	\$19,573					
		RFP 017 -- COP 016 -- Upgrades the type of fuel tank in response to recently changed City of Fresno Fire Department requirements for generator base mounted diesel fuel tanks to be constructed and listed to UL 2085 in lieu of UL 142. Cost increase \$172,899.	\$172,899					
		RFP 019 -- COP 019 -- Delete the two 6" ozone vents located inside the ozone contact basins, including the slab penetration and pipe support. Credit \$2,707.00.	(\$2,707)					
		COR 001 -- COP 006 -- Add additional exit sign in the Ozone Facility lower level. Cost increase \$1,424.	\$1,424					
		COR 002 -- COP 007 -- Add additional conduit tags for heat trace wire. Cost increase \$3,680.	\$3,680					
		RFP 007 -- COP 005 -- Reroute 36-in BWS pipeline to provide more efficient flow and less opportunity for air entrainment. Cost increase \$8,461.	\$8,461					

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 009 -- COP 003 -- Revise landscaping plan to mitigate for removal of large California Live Oak. Cost increase \$4,245.	\$4,245					
		RFP 011 -- COP 008 -- Change the location of the ISO Flanges on the Finished Water Transmission Main leaving the site. Reduces the number of ISO flanges. Credit \$29,658.	(\$29,658)					
		WCD 003 -- COP 004 -- CM directed abandonment of old water well on site. Cost increase \$3,168.	\$3,168					
		WCD 002 - COP 011 -- CM directed removal of old residential garbage dump on site. Cost increase \$14,649.	\$14,649					
CCO 005	Contract Change Order No. 5	RFP 029 -- COP 023 -- Added scope for SCADA (plant control system) programming. Originally anticipated to be performed under separate contract, it was determined that addition of scope to the SESWTF construction contract was the most effective and efficient method of implementation. Thus this change does not require additional funding for the overall project. Cost Increase \$2,493,750	\$2,493,750					
CCO 006	Contract Change Order No. 6	COR 007 -- COP 025 -- Delete concrete encasement of plumbing under Operations Building and Maintenance Facility and install per code for occupied buildings. Credit \$21,465	(\$21,465)					
		RFP 015 -- COP 012 -- Add several conduits and cables to support the required ozone emergency shutoff switches. Cost Increase \$5,590	\$5,590					
		RFP 016 -- COP 017 -- Provide larger panel boards for LP-MAINT-1 and DP-MAINT-1 to accommodate the maintenance shop requirements to support pipe heat tracing. Cost Increase \$48,399	\$48,399					
		RFP 021 -- COP 013 -- Miscellaneous changes to electrical service to plumbing fixtures. Cost Increase \$9,560	\$9,560					
		RFP 025 -- COP 021 -- Add 36 stator baffle walls to improve flow patterns in the flocculation basins at high flow rates. Cost Increase \$140,989	\$140,989					
		WCD 007 -- FO 002 -- CM directed contractor to excavate saturated soils and replace with compacted granular on Olive Ave in order to provide suitable road subgrade. Cost Increase \$47,898	\$47,898					
		WCD 008 -- FO 001 -- CM directed contractor to excavate saturated soils and replace with compacted granular on Floradora Ave in order to provide suitable road subgrade. Cost Increase \$34,148	\$34,148					
CCO 007	Contract Change Order No. 7	COR 008 -- COP 026 Contractor suggested that the west wall of the filter building requires damp proofing on the buried section and the DE concurred. Cost increase \$2,018.00	\$2,018					
		COR 009 -- COP 034 -- Revised wall opening at two locations for connection between Ozone and Filtration processes. Cost increase \$24,876.00	\$24,876					
		RFP 012 -- COP 028 -- Delete the removal & reinstallation of 107 LF of 8" PVC C-900 water main in Floradora Avenue from Sta. 36+36.02 to Sta. 37+06.22. Credit \$4,280.00	(\$4,280)					
		RFP 020 -- COP 030 -- During construction of the CM trailer, several modifications were required: ADA parking spots, reduced scope of fire alarm, reduced scope of security, and added networking capability. Cost increase \$60,156.00	\$60,156					
		RFP 027 -- COP 027 -- Several miscellaneous changes to the piping in Floradora resulted from CoF and FID plan checks at beginning of project. Cost increase \$10,790.00	\$10,790					
		RFP 036 -- COP 032 -- Change modifies the connection detail for the CAV line to the 16-inch potable water line. Cost increase \$6,674.00	\$6,674					
		RFP 046 -- COP 033 -- Provides revisions to the ozone destruct vent piping based on manufacturer's recommendations. Timing was urgent on this item. Cost increase \$3,603.00	\$3,603					
CCO 008	Contract Change Order No. 8	COR 010 -- COP 037 -- CoF Fire Department review of the Fire Alarm panel resulted in some mandatory changes to the specifications.. (RFI 0165) Cost increase \$16,796.00	\$16,796					
		COR 011 -- COP 045 -- Make multiple changes in electrical feeder sizes resulting from clarifications provided in RFI 0131. (RFI 0131) Cost increase \$13,363.00	\$13,363					
		COR 012 -- COP 047 -- Change the ceiling in Server Room from acoustic ceiling tiles to a hard lid gypsum wall board ceiling to contain the clean agent fire suppression system. (RFI 0173) Cost increase \$3,694.00	\$3,694					
		COR 013 -- COP 052.1 -- Change the components of the VPN Firewall to meet connection requirements of the City-Wide CISCO Identify Services Engine for all VPN communications. (RFI 0228) Cost increase \$67,559.00	\$67,559					
		COR 014 -- COP 057 -- Change the CTS Diffuser material from PVC to stainless steel. (RFI 0231) Cost increase \$9,531.00	\$9,531					

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		COR 015 -- COP 062 --Change two in-line Polymer diffusers from PVC to Hastelloy-C per manufacturer recommendation. Cost increase \$2,583.00	\$2,583					
		COR 016 -- COP 066 -- Change the components of the VOIP & Communications Firewall to meet connection requirements of the City-Wide CISCO Identify Services Engine. Cost increase \$116,785	\$116,785					
		RFP 052 -- COP 060 -- Modify the Ops Building Entryway Sunshade to coordinate with CMU wall configuration. (DC 066) Cost increase \$2,137.00	\$2,137					
		RFP 026 -- COP 036 -- Change configuration of local control panels for field equipment. (DC 042) Cost increase \$ 6,358.00	\$6,358					
		RFP 033 -- COP 035 -- Modify offsite street lighting configuration as result of CoF plan checks at beginning of project. (DC -029) Cost increase \$67,363.00	\$67,363					
		RFP 035 -- COP 043 -- Modify the telephone service conduits to accommodate AT&T revised service plans. (DC 045) Cost increase \$15,750.00	\$15,750					
		RFP 041 -- COP 039.2 -- Provide plates to cover trenches under access manways to Ozone Contact Basins. (DC 050) Cost increase \$6,736.00	\$6,736					
		RFP 044 -- COP 040 -- Provide revisions to main operator room entrance for added security. (DC 055) Cost increase \$2,566.00	\$2,566					
		RFP 045 -- COP 042 -- Change turbidimeters to align with the City's standards. (DC 056) Cost increase \$27,594.00	\$27,594					
		RFP 046 -- COP 049 -- Provide connection on 72-inch Raw Water Pipeline for future extension to the T3 facility. (RFP 078) Cost increase \$74,995.00	\$74,995					
		RFP 048 -- COP 055 -- Extend the Meter Vault access hatch 12 inches above grade for visibility and provide three bollards on the south side. side of the manhole. (DC 055) Cost increase \$6,573.00	\$6,573					
		RFP 049 -- COP 056 -- Add CAV Valves on various high points on the site PW Line loop. (DC 060.1) Cost increase \$5,687.00	\$5,687					
		RFP 050 -- COP 058 -- Add CAV Valves on 6" PW south end of the Operations Building. (DC 064) Cost increase \$5,163.00	\$5,163					
		RFP 051 -- COP 059 -- Provide security screen on the Perimeter Wall Opening stormwater overflow section. (RFP 009) Cost increase \$9,848.00	\$9,848					
		RFP 053 -- COP 061 -- Incorporate all modifications to the SCADA hardware described as "Option 2" in the Helix 01/19/17 letter attachment to COP 061. Additionally, Increase the SCADA Hardware Allowance from \$20,000 to \$22,613 to cover the full cost of this modification. (COP 061). Cost increase \$2,613.00	\$2,613					
		RFP 054 -- COP 063 -- Change the flooring type in the Operations Building upper story hall from Polished and Densified Concrete to Linoleum with a pattern per the attached figure. (DC 065) Cost increase \$6,281.00	\$6,281					
CCO 009	Contract Change Order No. 9	RFP 022 WQ -- COP 018.1 -- Add mixers to the two Caustic Soda Tanks (DC 036) Cost increase \$110,696.00	\$110,696					
		RFP 024 WQ -- COP 020 -- Add a tap on the Raw Water Pipe for injection of Sodium Hydroxide. (DC 038) Cost increase \$15,002.00	\$15,002					
		RFP 034 WQ -- COP 041 -- Add electrical and instrumentation for mixers on two Chemical Storage Tanks. (DC 044) Cost increase \$72,456.00	\$72,456					
		RFP 037 WQ -- COP 038 -- Add a Lime Fill Access Station in the Chemical Building. (DC047) Cost increase \$21,706.00	\$21,706					
		RFP 039 WQ -- COP 031 -- Add a tap on the Treated Water Pipe Tap for injection of CO2. (DC 039) Cost increase \$27,592.00	\$27,592					
		RFP 040 WQ -- COP 044.2 -- Add three caustic chemical feed pumps. (DC 049.1) Cost increase \$34,231.00	\$34,231					
		RFP 043 WQ -- COP 046 -- Make modifications to the Caustic Tanks to convert two for Sodium Hydroxide. (DC 053) Credit \$8,187.00	(\$8,187)					
		RFP 042 WQ -- COP 048 -- Add roof hatches to the two lime tank roofs. (DC 052) Cost increase \$19,379.00	\$19,379					
		RFP 047 WQ -- COP 053 -- Delete two Sodium Hydroxide System mixing eductors.(DC 067) Credit \$5,243.00	(\$5,243)					

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 055 WQ -- COP 065 -- Make multiple mechanical changes in the Chemical Building to facilitate the addition of a Calcium Hydroxide feed system to the treatment scheme. (DC 058.1) Cost increase \$255,753	\$255,753					
CCO 010	Contract Change Order No. 10	COR 017 -- COP 068 -- Reimbursement for extra Design Engineer cost required by Contractor selected substation transformer foundation requirements. Cost decrease \$14,800	(\$14,800)					
		COR 018 -- COP 071 -- Add fire smoke dampers, including associated electrical and access hatches, to meet requirements of the specified clean agent fire suppression system in the Server Room. (RFI 021) Cost increase \$9,309	\$9,309					
		COR 019 -- COP 071 -- Add capability to control the TWPS discharge based on flow rate as an alternative to the specified system pressure control. (RFI 323) Cost increase \$2,620	\$2,620					
		COR 020 -- COP 075 -- Change specified radios to allow operation with the specified broadcast frequencies. (RFI 030) Cost increase \$4,370	\$4,370					
		COR 021 -- COP 079 -- Add structural stiffeners around electrical penetrations in 2nd floor metal decking in Ops Building in response to City Building Inspector comments/requirements. (RFI 0326) Cost increase \$12,590	\$12,590					
		COR 022 -- COP 064 -- Modify architectural resin panels based on DE review comments to provide additional resin panels at door hams and headers, additional plywood backing, and additional painting. Cost increase \$8,862	\$8,862					
		RFP 056 -- COP 069 -- Delete color-code painting of indoor PVC chemical feed piping and add color bands. (RFP 008) Cost decrease of \$30,731	(\$30,731)					
		RFP 057 -- COP 070 -- Add 480VAC 3-phase power service, disconnects, conduit, and cabling for the Maintenance Building Bridge Crane. (DC 074) Cost increase \$6,395	\$6,395					
		RFP 058 -- COP 076 -- Add remote valve actuator control stations for the two butterfly valves located in the Flow Control Vault. (DC 072) Cost increase \$12,007	\$12,007					
		RFP 059 -- COP 077 -- Increase size of four (4) ozone side stream motors from 25 HP to 40 HP and increase size of power feed conduits and cables. (DC 059) Cost increase \$14,540	\$14,549					
		RFP 060 -- COP 078 -- Add precast drain outlet into the onsite detention basin and 90-feet of 24-inch storm drain pipe to drain the southwest corner of site. (DC 077) Cost increase \$40,378	\$40,378					
		RFP 061 -- COP 080 -- Modify the Olive Avenue site entrance to provide a paved truck turn-around area on the street side of the security gate. (DC 069) Cost increase \$21,272	\$21,271					
		WCD 009 -- COP 050 -- Provide soil cement treatment to stabilize saturated subgrade materials in Olive Avenue. (FO 003) Cost increase \$73,483	\$73,483					
		WCD 010 -- COP 072 -- Relocate approximately 181 feet of 12-inch private irrigation pipe, including three 23-inch standpipes, found in the intersection of Armstrong Ave and Floradora Ave. This pipeline was not shown on the drawings. (FO 005) Cost increase \$32,081	\$32,081					
		WCD 011 -- COP 073 -- Provide temporary relocation of an existing direct-buried telephone line on Armstrong Ave. This telephone line was not shown on the drawings. (FO 004) Cost increase \$5,679	\$5,679					
		Adverse Weather Days: Add three (3) calendar days to contract in recognition of accumulated Excess Adverse Weather Days for calendary year 2017.	\$0	3				
CCO 011	Contract Change Order No. 11	COR 023 -- COP 081 -- Relocate and modify the filter underdrain access covers. (RFI 0268) Cost increase \$16,755	\$16,755					
		COR 024 -- COP 089 -- Modify the Operations Building HVAC grills by providing T-Bar grill adaptors and remote linkage dampers for balancing. (RFI 0359) Cost increase \$6,347	\$6,347					
		COR 025 -- COP 088 -- Add conduits and outlets in the Operations Bldg. copy room.. (RFI 0339) Cost increase \$7,263	\$7,263					
		RFP 038 -- COP 082 -- Add conduits and junction boxes at all doors to accommodate the security system design and minimize subsequent costs associated with installation of door security system components. (DC 048.1) Cost increase \$80,119	\$80,119					

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 062 -- COP 086 -- Provide additional electrical/control equipment, conduits, and cables to support the site sewer discharge metering flume. (DC 071) Cost increase \$80,553	\$80,553					
		RFP 063 -- COP 087 -- Modify the plant potable water supply backflow prevention system by deleting the two 16-inch centralized backflow prevention devices and adding 10 decentralized backflow prevention devices in dispersed locations to meet the pressure requirements of the Fresno Fire Department. (DC 078.1) Cost increase \$117,627	\$117,627					
		WCD 012 -- COP 083 -- Provide a connection to the distribution system at a 16-inch water line on Olive Avenue east of Armstrong Avenue. This connection from the easterly end of the new 48-inch treated water main will improve service and allow circulation of water in the treated water main. (FO 007) Cost increase	\$18,544					
		WCD 013 -- COP 084 -- Modify the alignment of the new 16-inch distribution water line on Fowler Avenue south of Olive Avenue to accommodate unmarked utilities. (FO 008) Cost increase \$21,256	\$21,256					
		WCD 014 -- COP 085 -- Subsequent to bidding the SESWTF work, AT&T decided to install new underground conduits in the Fowler/Olive intersection. This change required sequencing coordination during the installation of water/sewer/storm drain pipelines and rebuilding of the Fowler Avenue and Olive Avenue intersection with AT&T. (FO 009) Cost increase \$21,211	\$21,211					
CCO 012	Contract Change Order No. 12	RFP 064 -- COP 090 -- Add design configuration, construction, and implementation of a complete Security System for the SESWTF and Kings River Pipeline Diversion Site. The security system conforms to the U.S. Department of Homeland Security 2010 Water Sector Specific Plan for critical infrastructure strategies for drinking water facilities. It is an integrated system including cameras, keyed entry devices, motion detectors, intrusion monitors, and a central control station. (RFP 010) Cost increase of \$990,191	\$990,191					
CCO 013	Contract Change Order No. 13	COR 026 -- COP 092 -- PG&E requested that Contractor provide required compound meter NETA testing to expedite the meter installation and connection of the electrical substation to the PG&E transmission grid. PG&E will credit the City for this cost which was intended to be borne by PG&E. Cost Increase \$2,223	\$2,223					
		COR 027 -- COP 096 -- Install 6"x6"x4" J boxes on the flocculator mixer motor to accommodate 1.5" feeder conduits per design. (RFI 349)	\$7,333					
		COR 028 -- COP 095 -- Install hot standby module and redundant processor at each control valve station. (DC 041)	\$57,124					
		COR 029 -- COP 094 -- Install additional outlets and lighting in Ops Building Attic space to accomodate servicing of HVAC equipment. (RFI 392)	\$21,657					
		COR 030_COP 097_Install SST safety chains at two locations in the Ozone process area. (DC 086)	\$3,481					
		COR 031_COP 098_Increase the size of the feeder breakers and cable for the Cathodic Protection Power Panels. (RFI 384)	\$8,203					
		COR 032--COP 099--Provide and install Floor Drain Trap Seal on floor drains with p-traps in the Chemical Building. (DC 076)	\$1,143					
		COR 033--COP 100--Install remote indicating transmitters at Flowmeters 20.0111 and 20.0121 in the Pretreatment Gallery. (DC 085)	\$10,437					
		COR 034--COP 101 -- Change the specified MOXA Nport 5232 ethernet to 485 converter to a MOXA MGate 3170 per the manufacturer's recommendation.	\$3,285					
		RFP 065 -- COP 093_Add outdoor feature lighting to illuminate the flagpole in front of the Operations Building so the flag does not need to be removed each day.	\$6,814					
		WCD 016 -- COP 067.1 -- Provide soil cement treatment to stabilize saturated subgrade materials in Armstrong Avenue. (FO 006)	\$42,655					
CCO 014	Contract Change Order No. 14	COR 035 -- COP 102 -- This item provides a credit to the City for extra inspection services incurred due to multiple test failures of a cathodic protection ground bed well.	(\$16,428)					
		COR 036 -- COP 104 -- This item modifies the structural soffit design detail for the Maint Bldg covered storage area. Additional metal framing was required to meet architectural intent. (RFI 378)	\$3,718					
		COR 037 -- COP 105 -- This item modifies the HVAC ducting and associated supports to avoid conflict with adjacent wall partitions (fence). (RFI 398))	\$525					

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		COR 038 -- COP 106 -- This item modifies the locking mechanism and hardware on the access gate to the Maintenance Bldg storage area to provide both keyed access and electronic keypad access. (RFI 403)	\$1,197					
		COR 039 -- COP 107 -- This item adds above-ground post indicators to the dedicated fire water line shut-off valves. This change is made at direction of the Fire Department to provide with a visual open/close status of critical valves. (RFI 400)	\$18,513					
		COR 040 -- COP 111 -- This item modifies the routing of the HVAC condensate drain piping in the Chemical Building to avoid potential for condensate liquid to enter any electrical equipment. (RFI 397)	\$1,336					
		COR 041 -- COP 121 -- This item adds a water stopping epoxy application to seal the joints of the Filter Overflow Baffle wall. This joint was installed per Contract Drawings without a waterstop, but subsequent consideration by the Design Engineer indicated a need for a waterstop. (RFI 399)	\$2,358					
		RFP 065 -- COP 103 -- This item replaces the specified (hold on -- release off) laboratory water sample faucet valves, with continuous flow (on -- off) faucet valves per the City request. (DC 099)	\$2,499					
		RFP 067 -- COP 108 -- This item modifies the virtual network and communications software configuration to provide a level of security consistent with City standards for data protection. (DC 090)	\$17,364					
		RFP 068 -- COP 109 -- This item adds a 12-count fiber optic cable from the SESWTF CM Office to the SESWTF Administration/Operations Building. The 12-count fiber optic cable will meet the plant's minimum requirements on an interim basis until the City completes installation of a 144-count fiber optic cable being done under a separate contract. (DC 091)	\$3,213					
		RFP 069 -- COP 110 -- This item adds a turbidity analyzer to monitor water quality on treated water just prior to it being pumped into the distribution system. This data requirement results from recent agreements with state regulators on water quality management. (DC 092)	\$13,402					
		RFP 070 -- COP 112 -- This item adds safety signs above submerged access hatches between pretreatment basins. (DC 095)	\$3,261					
		RFP 071 -- COP 114 -- This item provides retaining wall footing details that are not included in the Contract Drawings. (DC 087)	\$4,074					
		RFP 072 -- COP 116 -- This item adds bollards around the perimeter of the diesel fueled electric generators as directed by the Fire Department inspection. Bollards were not included in the Contract Drawings that were initially approved by the Fire Department. (DC 082)	\$25,649					
		RFP 073 -- COP 117 -- This item adds handrail gates and access ladders into the Pretreatment Basins for safe access during routine maintenance of the plate-settler mechanisms. (DC 101)	\$13,374					
		RFP 074 -- COP 118 -- This item adds screen mesh covers for various concrete channel openings to prohibit birds (barn swallows) from nesting and introducing potential contaminants to the water. (DC 094)	\$114,091					
		RFP 075 -- COP 120 -- This item modifies the filter water level ultrasonic transducers by adding remote displays on the operator deck. This modification provides safe worker access for routine calibration and reading. (RFP 012)	\$14,086					
		RFP 076 -- COP 122 -- This item added an additional eyewash was necessary to be installed to meet eyewash distance requirements to and from chemical tanks. (DC 100)	\$15,782					
		RFP 077 -- COP 123 -- This item modifies vent pipes on all Chemical Storage tanks to provide "goose neck" tops with insect screens in lieu of the straight pipe vents shown on the Contract Drawings. (DC 098)	\$9,254					
		RFP 078 -- COP 124 -- This item modifies the CO2 system piping to eliminate a cross connection between potable (UW1) water and non-potable utility water (UW2). (DC 089)	\$20,849					
		RFP 079 -- COP 125 -- This item adds a hose Bib at the NE corner of Chemical Building as a necessary support to the adjacent eye-wash station. (DC 104)	\$2,237					
		WDC 016 -- COP 105 -- This item relocates a single site light pole near the south entrance to mitigate a potential "climb-point" for unauthorized site access. (FO 016)	\$7,916					
		WCD 017 -- COP 113 -- This item changes the accent wall color in the Administration/Operations Building conference room to more closely match the overall building color scheme. (FO 017)	\$456					

Construction Contract Change Item Descriptions (CID)

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Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
CCO 015	Contract Change Order No. 15	COR 043: This item adds conduit and conductor to supply 120VAC for OIT-Flash-R and Filt-R. (COP 128 -- RFI 421)	\$8,300					
		COP 044: This item adds 120v power supply to the fire alarm bells. The Fire Protection System approved by Fresno Fire Department requires electric bells at each riser. The bells requires 120V supply the bells in Ops, Ozone, Chemical and Maintenance buildings. (COP 131 -- RFI 427)	\$8,880					
		RFP 080: This item adds two (2) 12-foot swing gates across the access road on the West side of the power Substation to preclude traffic under the low-hanging power lines. (COP 126 -- DC 103)	\$11,032					
		RFP 081: This item modifies the CAO chemical feed system to mitigate clogging by increasing size of pump feed pipeline, adding flushing system, and removing some constraining fittings on the feed system skid. (COP 127 -- DC 058.3)	\$11,617					
		RFP 082: This item adds an uninterrupted power supply (UPS) to close the two (2) ozone inlet valve actuators EDR-30.0101 and EDR-30.0102 in response to a total plant power loss as required by the City's Emergency Shutdown Protocol. (COP 130 -- DC 114)	\$76,291					
		RFP 083: This item modifies the control scheme for the polymer feed system (PEA) to allow feeding polymer to filter backwash water, clarifier sludge blowdown water, and to conform with the City's Emergency Shutdown Protocol. (COP 132 -- DC 115)	\$12,351					
		RFP 084: This item modifies the Reservoir Inlet Structure to ensure the Filter Effluent pipeline remains full under low-flow conditions in order the keep sample pumps suction pumps flooded on the inlet side.(COP 133 -- DC 106)	\$2,013					
		RFP 085: This item adds additional bollards around the CO2 and LOX chemical storage tanks as required by the City's Chemical Supplier's safety protocol. (COP 134 -- DC 111)	\$9,338					
		RFP 086: This item adds high-security locking mechanisms to six (6) TW Reservoir access hatches. (COP 135 -- DC 108)	\$1,066					
		RFP 087: This item adds a splash guard and wire screen to the Filter to Waste Overflow Box opening. (COP 136 -- DC 116)	\$9,150					
		RFP 088: This item adds rotometers to the turbidity analyzers on eight (8) filters to allow operators to adjust flows to minimize waste. (COP 138 -- DC 105)	\$4,108					
		RFP 089: This item modifies the relative positions of chemical feed injectors following flash mix to reduce potential fouling of other injectors by the CAO chemical injector. (COP 139 -- DC 113)	\$2,558					
		RFP 090: This item extends the feature wall in front of the Administration Building to mitigate a visual conflict between the wall-mounted architectural plant sign and a site light pole. (COP 140 -- DC 120)	\$11,077					
		WCD 18: This item adds additional erosion control (rip-rap) treatment to the TW Reservoir overflow channel (COP 137 -- FO 13.1)	\$30,038					
CCO 016	Contract Change Order No. 16	RFP 091: This change item adds 38-calendar days to the Contract Substantial Completion Date due to the impact of concurrent Contractor/Owner delays.		38				
CCO 017	Contract Change Order No. 17	RFP 092: This item modified the entrance gate 103 controls and relocated the pedestal to create adequate clearance. (COP 119 DC-88 & 97, RFI-417)	\$25,890					
		RFP 093: This item added a primary disinfection switch on SCADA to enable switching between chlorine and ozone disinfection methods (COP 129, DC-110).	\$2,200					
		RFP 094: This item added a redesigned and rebuilt Calcium Hydroxide feed system where as the original design was not reliable (COP 141, DC-119).	\$92,784					
		WCD 019: This item modified the Constant Head Box and reroute treated water vent to mitigate air entrainment (COP 142, DC-102).	\$36,088					
		RFP 095: This item replaced the 1/2 horsepower sample pump at the treated water reservoir outlet vault with a full 1 horsepower pump to provide sufficient power to the sample sink for lab work (COP 143, DC-117).	\$2,512					
		RFP 096: This item added stairs at the Filter/Sedimentation deck, per owner's request (COP 144, DC-118).	\$9,436					
		RFP 097: This item added ozone leak detection strobes to meet safety requirements (COP 145, RFI 434).	\$2,895					

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		RFP 098: This item added seal water lines to the seven centrifugal pumps to lubricate the bearings and avoid overheating (COP 146, DC-93).	\$49,564					
		RFP 099: This item made modifications to the CO2 local control panels to enable communication with the SCADA system (COP 147, RFI-433).	\$7,618					
		RFP 100: This item added power supplies for the remote security cameras that required an upgrade to fiber optics due to distance (COP 148, RFP-10).	\$88,439					
		WCD 020: Offsite Closeout work including grading modifications, raising the AT&T vault at Olive, additional 240 LF of AC dike on Floradora, curb painting at Temperance and backfill of dike at Olive shoulder, (COP 149, FO-10).	\$25,259					
		RFP 101: This item added modifications to the Ozone fire alarm system to shut off the liquid oxygen (LOX) when the alarm sounds to meet safety requirements (COP 150, DC-121).	\$1,294					
		COR 045: This item adds and modifies the switches & Estops on the Local Control Panels (COP 151, DC-42).	\$7,582					
		RFP 102: This item added a power supply for the surge system dryers (COP 152, RFI-441).	\$9,692					
		RFP 103: This item adds a specialized Lab dishwasher that was not included in the project specifications (COP 153, RFI-442).	\$7,484					
		WCD 021: This item is for removal and replacement of the concrete slope lining at Lagoon 4 (COP 154, FO-14).	\$27,064					
		WCD 022: This item is for modifications to the Ozone Cooling Water supply piping to allow use of utility water and avoid overheating (COP 155, FO-16).	\$9,554					
		WCD 023: This item is for modifications to the Raw Water Injectors, start up and optimization (COP 156, FO-18).	\$10,451					
		WCD 024: This item is for the connection of the Polymer Header between the Anionic and Cationic systems to provide for more flexibility (COP 157, FO-17).	\$1,945					
		WCD 025: This item is for site fencing modifications and bollards to meet compliance requirements of the Fire Department (COP 158).	\$18,331					
		RFP 104: This item is a credit requested by the City for the sewer maintenance agreement in exchange for acceptance of non compliant work in place. (NCN-6)	(\$41,000)					
		RFP 105: This item was established in Change Order 5 to add Supervisory Control and Data Acquisition Integration (SCADA) allowance for this project as well as the Kings River Pipeline project. This change item deletes the unused allowance portion resulting in a credit to the City.	(\$75,000)					
		RFP 106: Supplemental Work Allowance -This item was established in Change Order 1 for completion of authorized extra work in accordance with the Standard Specifications. Substantial Completion for the project has been recorded as 8/7/2018 and project work has been completed. This item is being deleted from the Contract.	(\$1,000,000)					
		RFP 107: Bid Item No. 1A through 1I Allowance Items - A separate allowance was established for each of the following: Mediator, Laboratory Equipment, Maintenance Bldg. Furniture, Maintenance Bldg. Shop Equipment, Process Controls & Instrumentation Tools & Spare Parts, Changes to SCADA Equipment, VOIP Paging System, Operations Bldg. Furniture, and Conference Room AV System. This change item deletes the unused allowance portions and adjusts each bid item resulting in a credit to the City.	(\$142,636)					
		RFP 108: This item is a reimbursement for the electricity usage billed to the City during project start up.	(\$355,125)					
		RFP 109: This item is a reimbursement for the chemical usage billed to the City during project start up.	(\$222,929)					
		RFP110: This item is worth half of the water production savings to assist the Contractor with the chemical and electrical usage costs.	\$360,000					

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 111: This item is a reimbursement for the non-metered water usage billed to the City during construction.	(\$40,000)					
		RFP 112: This item is the final bond adjustment for all change orders (CCO 1 through CCO 17) on this project.	\$65,164					

Construction Contract Change Item Descriptions (CID)

Project Name: **Phase 2 Regional Transmission Main - Segment B&C**
 Project Number: **WC00065**
 Data Date: **11/30/18**

	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$11,490,484	\$11,190,484	500
Approved Contract Change Orders:	\$24,435	\$24,435	56
		0.22%	
Current Contract Value:	\$11,514,919	\$11,214,919	556



APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Total			\$24,435	56	\$192,885	\$0	\$45,660	9
Change Order Requests								
COR 002.1	Revised TCP at Cambridge	VAS' original, approved traffic control plans allowed installation of the RTM from Weldon Ave to Clinton Ave under a single phase of traffic control. In an effort to minimize the RTM construction's footprint, City Traffic requested that VAS break this plan into two separate phases. The traffic control plan would shift to the second phase when VAS reached Cambridge Ave. Transitioning from one traffic control plan to the next delayed VAS' progress, as they can only work under a single, fully set up plan/phase. This impacted four days of RTM construction: on the first two days, VAS needed to work using a process less efficient than their normal production train, to make sure all components of the RTM were complete in the first traffic control phase. They then had to stop all progress to deconstruct the first traffic control phase and implement the second phase. After the second phase had been setup, progress continued, although VAS claims that it took four hours to get their crew back up-to-speed on the fourth impacted day. Costs for this change order request are \$7,830.			\$7,830			2
COR 002.2	Revised TCP at Floradora	This change order request is for the exact same claims as those made in COR 002.1. City Traffic requested that VAS split their approved traffic control plan into two separate phases at Floradora Ave as well.			\$7,830			2
COR 002.3	Revised Traffic Control Plan at Upcoming Intersection	Given that City Traffic has already made the request at two separate intersections to split VAS' traffic control plans into two phases, it is anticipated that this will occur at upcoming intersections. The location for this impact is currently undetermined.					\$7,830	
COR 002.4	Revised Traffic Control Plan at Upcoming Intersection	Given that City Traffic has already made the request at two separate intersections to split VAS' traffic control plans into two phases, it is anticipated that this will occur at upcoming intersections. The location for this impact is currently undetermined.					\$7,830	
COR 006	Potential Utility Conflict from Subsurface Utility Investigation	During the Contractor's subsurface utility investigation, the Contractor reportedly discovered many more utilities than are listed on sheets 6 and 7 of the plans (utility crossing information). Because it is unknown what the magnitude of the conflict will be, if any, extra costs will need to be evaluated on a case-by-case basis.					\$25,000	
COR 008	Reduced Work Hours and Additional Flagmen	The specifications state that no work can be done between 6:00PM and 7:00AM without the City's permission. For work on E. Kings Canyon Rd, the City required that VAS change their work hours to 9:00AM to 4:00PM in order for traffic control plans to be approved. The City also required an additional flagman before allowing VAS to mobilize/set up traffic control. VAS sees this as a change of 1.5 work hours per day, and may seek additional compensation for the flagman.					\$5,000	5
COR 010	Plating Trench on Chestnut Ave, From Clinton Ave to Shields Ave	While installing the RTM on Chestnut Ave, from Clinton Ave to Shields Ave, VAS is working on County of Fresno land. County Traffic has requested that VAS plate their entire trench after each day of work, rather than just erect temporary fencing around the area. VAS will plate their trench for as long as they are within County of Fresno's right of way.			\$30,000			
Requests for Proposal								
RFP 002	Install Tamper Resistent Hex Bolts at CP Test Stations	Furnish and install bolt down frames, lids, and tamper resistant hex bolts at all installed CP test station locations.			\$500			
Work Change Directives								

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
WCD 001	Temporary Construction Fence-RTM Yard	Temporary fencing is needed along north property lines of the RTM construction yard for security. The Contractor is responsible for providing temporary fencing, but the Construction Manager recognizes that mobilization is expected in late May. The Contractor is directed to provide temporary fencing from 3/22/18 to 5/21/18. Once mobilized, the Contractor shall be expected to maintain temporary fencing as part of the mobilization Bid item, in accordance with the Contract Documents.			\$1,725			
WCD 003	Relocating Access Manway at Temperance and E. McKenzie Ave.	Due to conflict in the RTM alignment, it was necessary to relocate the access manway at N. Temperance Ave and E. McKenzie Ave.			\$2,000			
WCD 004	Plan Revisions in Response to SUE Conflicts	During the Contractor's subsurface utility investigation, an unknown fiber optic line was discovered at the intersection of N. Chestnut Avenue and E. Hammond, and an unknown 24" storm drain line was found at the intersection of N. Chestnut and E. Princeton Ave. These two utilities are in conflict with the RTM alignment. This WCD is for the realignment of the RTM pipeline at these two locations.			\$25,000			
WCD 007	Concrete Base Pavement Removal on E. Kings Canyon Rd.	Concrete base pavement was discovered below the top asphalt layer along the RTM alignment on Kings Canyon Rd. Additional work to move the existing concrete pavement is required, as it could not have reasonably been foreseen by the Contractor. Costs include sawcutting the pavement, additional traffic control, and standby time the day it was discovered. The Contractor will also create a detailed proposal crediting the City with the costs that would have been incurred by removing asphalt pavement where the concrete base pavement was discovered.			\$20,000			
WCD 008	Repair of Broken Streetlight Conduit	An unmarked electrical streetlight conduit near the intersection of Chestnut and Olive (Sta. 703+25) was damaged during excavation.			\$3,000			
WCD 009	Relocation of Receiving Pit and Casing at Chestnut Ave and McKinley Ave	Due to concerns that excavation of the receiving pit on Chestnut Ave., north of McKinley Ave. (Sta 728+80), would cause too substantial of a disruption to the flow of traffic, it is necessary that VAS shifts the receiving pit and north end of the casing 2 ft to the east. Costs include additional traffic control and additional shoring, as may be necessary. It will also be necessary for Ameron to rotate the blowoff lateral outlet at this location, costs will be incurred for this work.			\$30,000			
WCD 010	Nightwork Between Floradora and McKinley Ave	The Contractor performed nightwork for the RTM installation between Floradora and McKinley ave., allowing for one southbound lane on Chestnut Ave to remain open during daytime hours. This workchange was authorized in order to minimize disruption to the flow of traffic on Chestnut, and to maintain daytime access to local residences and businesses. Nightwork lasted 4 nights. Costs associated with this work change directed included pay differential from working at night, additional traffic control, additional lighting, and possible costs from nighttime concrete plant opening.			\$6,000			
WCD 011	Relocation of CAV Isolation Valve at Sta. 767+00	Per the contract plans, VAS is to install a combination air release valve (CAV) at the intersection of Princeton Ave and Chestnut Ave. At this location, there is a 2" gas main that is in conflict with the CAV isolation valve. In order to resolve the utility conflict, VAS shall install a 45 degree ductile iron horizontal bend at the RTM outlet flange, and connect a 36 inch long flanged spool to the downstream end of this fitting. VAS shall install the CAV isolation valve to the downstream end of the 36" spool, in order to maintain approximately two feet of clearance between the gas main and isolation valve. Additional costs associated with this work change directive may include additional time to install pipe/fittings, additional excavation, and additional materials.			\$4,000			

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
WCD 012	Blown Sand in Casing, Chestnut-McKinley	Per the contract plans, VAS has installed the RTM inside the casing pipe at the Chestnut-McKinley intersection using trenchless excavation (jack and bore) methods. The annular space between the RTM and casing shall be filled with sand and blown in-place, leaving no voids. This will be done in order to prevent settlement if the casing ever was to corrode in the future. The contract does not require blown sand to be installed and no bid item exists for payment. Costs for this work change directive may include labor to backfill the casing with sand, as well as material costs for the sand. VAS is authorized to proceed with work on a time and materials basis.			\$10,000			
WCD 013	Removal and Replacement of Irrigation Line on Temperance	While potholing Segment B of the RTM alignment, an unknown , active, private irrigation line was discovered on Temperance Ave. As-builts from a previous project show that the line is a 12" nonreinforced concrete pipe. The irrigation line is outside of FID's jurisdiction, but the line's owner is known and has been in contact with the CM team. Because the line conflicts with the RTM alignment, the Contractor shall remove it so the RTM can be built to contract plans. VAS shall subsequently replace the irrigation pipe with a pipe of the same diameter and materials as the existing line. Costs of this work change directive may include materials costs for the replacement pipe, as well as the time and labor costs to remove and replace the irrigation line.			\$20,000			
WCD 014	Additional CAV at Sta. 854+60	An existing 6" electrical duct was found to be in conflict with the RTM at the intersection of Chestnut and Dakota. Due to the conflict, pipe #227 was lowered by 18" to clear the electrical duct. The change in elevation requires an additional CAV be installed at station 854+60.			\$25,000			
Change Orders								
CCO 001	Contract Change Order No. 1	RFP 003- During preconstruction subsurface utility investigation, the Contractor found additional sewers not shown on the Contract Plans. Video inspection was determined to be necessary in order to establish whether conflict existed between the sewers and the RTM. Approximately 1,300ft of the sewer line was inspected.	\$9,135					
		WCD 006- Per the approved traffic control plan, installation of the RTM pipeline on Chestnut Ave required the southbound lanes of Chestnut Ave. to be closed to through traffic between Clinton Ave. and Cambridge Ave. (approximately 750ft). The residences at 2221, 2241, and 2291 Chestnut Ave did not have access to their driveways during this closure. Reserved parking was provided for the impacted residents on Chestnut Ave, between Cambridge Ave. and Weldon Ave. Onsite security for the reserved parking was provided between the hours of 6pm and 6am for the six-day duration of the closure. The onsite security was required by City Traffic Engineering during traffic control plan review for closure of the roadway, it was not required by the Contract Plans or Specifications.	\$2,699					
		WCD 002- Prior to construction, the Contractor potholed to locate possible conflicts with existing utilities and the RTM pipeline. Existing sewer laterals were found to be in conflict with the alignment of the RTM pipeline on Chestnut Ave., between McKinley Ave and Clinton Ave. In order to avoid these conflicts, profile revisions were issued for sheets 17 and 19 of the Contract Plans, requiring the Contractor to install the RTM pipeline 8" deeper for approximately 750ft. The realignment required the Contractor to perform additional excavation and backfill work.	\$12,601					

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		COR 004- In their letter dated March 27th, 2018 (transmittal 003), the Contractor claims that 62 calender days were lost due to events that were beyond their control. These delays consist of SharePoint training (12 days), inclement weather (10 days), and CalTrans permit delays (40 days). In their letter dated March 27th, 2018 (transmittal 025), the Contractor claims they lost fifty-six (56) calender days due to an inability to obtain materials, particularly steel coil, because of government regulations regarding steel imports. The Contractor stated that this delay was beyond their control.		56				

Construction Contract Change Item Descriptions (CID)

Project Name: **RWTM Southwest Quadrant Project SW1B**
 Project Number: **TC00096B**
 Data Date: **12/31/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$9,341,491	\$9,041,491	1000
Approved Contract Change Orders:	\$0	\$0	0
		0.00%	
Current Contract Value:	\$9,341,491	\$9,041,491	1000

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Total			\$0	0	\$274,801	(\$138,945)	\$773,997	7
Change Order Requests								
Claims	Claims						\$2,333,997	TBD
Requests for Proposal								
Credit Disputes	Credit Disputes						(\$1,560,000)	
Work Change Directives								
None								
Change Orders								
Draft CCO 001	Draft Contract Change Order No. 1	COR 001 Potholing for Abandoned Chevron Line - After award of the construction contract, Chevron informed the City of an abandoned crude oil pipeline located within the railroad right-of-way at two of the recycled water pipeline crossings. The Contractor was directed to pot hole and verify the location of the crude oil pipeline crossings in order to confirm no conflict with recycled water pipeline construction. COR 002 Revised Trench Credit Costs - The Contractor proposed changes to contract requirements for pipeline trench size and configuration. Proposed changes were reviewed by the Engineer and found to be acceptable. The changes resulted in reduction of cost to the Contractor and savings to the City. COR 004 Fiber Optic Conduit Crossing at Marks Ave - The Contractor proposed an alternate method of construction for the fiber optic conduit crossing at Marks Avenue, similar to methods used for other similar crossings on this project. Use of the alternate method will simplify construction sequencing, facilitate County permitting, reduce traffic impacts, and minimize delay to execution of the work. COR 007 Debris in Trench at 14-Inch PVC in Belmont/Marks Intersection Garney encountered concrete debris in the trench excavation near the intersection of Marks and Belmont but did not provide a preliminary Notice of Change or any subsequent timely backup. During negotiations Garney presented cost sheets requesting compensation for impacts on December 27th, 28th, and 30th of 2016 and on January 3rd, 5th, 6th, and 21st of 2017. The CM verified with the project Inspector that Garney was potentially impacted by the debris and agreed that Garney was impacted on six (6) days. The resulting compensation is \$24,000 and two (2) days of time extension. COR 009 Blythe Bore Pit Permeation at Houghton Canal - Garney encountered water seepage into the jack and bore pit at approximate Station 132+00. The City's Inspector stopped work until the situation could be evaluated and a remedy implemented. Agreed that Garney was impacted on two days: March 17th and March 18th for 4 hours and 5 hours respectively. The resulting compensation is \$9,273 and one (1) day of time extension. COR 010 Removal of Concrete Structure at Cornelia and Belmont - The Contractor encountered an unmarked, buried concrete structure while excavating the receiving pit for jack & bore at the intersection of Belmont & Cornelia. The City Inspector confirmed that the Time & Material sheets accurately reflect the labor/equipment required to remove the obstruction. Agreed to pay the Contractor's cost request less the mobilization charge for their Subcontractor (Cal Valley) to pave the excavated trench since the installation required them to mobilize. The resulting compensation is \$34,027 and three (3) days of time extension.			\$4,381			
						(\$87,201)		
					\$11,352			
					\$24,000			2
					\$9,273			1
					\$34,027			3

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 001.1 Additional Steel Pipe and Water Service After award of the construction contract, the final tie-in point was moved to accommodate construction phase changes to the end-point of the SW1A recycled water pipeline. The revised tie-in location resulted in an increased depth and length to the SW1B piping approach run. Additionally, a recycled water service connection assembly was added on Belmont Avenue for the City municipal service yard neighboring City Fire House No.19.			\$52,224			
		RFP 002 Additional Water Service Connections Two future users for recycled water service were identified along the Cornelia Avenue alignment after award of the construction contract. Recycled water service connection assemblies were added to the work in order to accommodate the identified future users.			\$33,670			
		RFP 003.1 Fiber Optic Conduit Railroad Crossings Additional railroad agency requirements were identified after award of the construction contract that required changes to the installation alignment for the fiber optic conduit at two railroad crossing locations. In order to mitigate extra cost and further delays to the work, the fiber optic conduit crossings were deleted from the project. The fiber optic conduit crossings are planned for completion under separate future contract.				(\$30,736)		
		RFP 004 Commercial Truck Fill Stations - The project work included five recycled water fire hydrants. After award of the construction contract, State Water Resources Control Board permitting requirements were identified, including requirements for the City to obtain approval of a Title 22 Engineering Report from the Division of Drinking Water. The required Engineering Report to demonstrate firefighting department training and protocols associated with the use of recycled water was not in place so the City directed the Contractor to change the fire hydrant assemblies to commercial truck fill stations in order to avoid permit compliance issues.			\$10,033			
		WCD 001 Unidentified Telecommunication Conduits - Two buried telecommunication conduits were found to be in conflict with the new facilities during construction. The telecommunications lines were not identified on the project plans. The Contractor was directed to add additional pipe fittings and build the recycled water pipeline under the telecommunication obstacle.			\$9,000			1
		COR 011 Utility Conflicts at Bore Station 132 - The Contractor encountered an unmarked 4-inch conduit on March 2, 2017 when excavating the jack & bore jacking pit at approximate Station 132+00. The conduit was determined to be abandoned, but it was directing a significant quantity water into the excavation. The work was stopped due to flooding and the pit was relocated to mitigate the problem. Agreed that March 2 and March 3, 2017 are compensable to cover cost of excavating/filling the abandoned pit. The original Contract Price covers the relocated pit location. The relocation also required the jack & bore to be lengthened by 20-feet. Since the City Standard Specifications Section 1 TERMS, DEFINITIONS, GENERAL PROVISIONS paragraph 3-2.1.2 page 23 states that Unit Prices apply to all changes until the change exceeds 25% of the Contract Bid Quantities, the City will pay the Contractor \$30,000 as compensation for the 20-foot casing extension. The Contractor resubmitted cost sheets (PCO # B15 Rev 4) to support the agreed COR 011 cost of \$50,841.09.			\$50,841			
		COR 013 Bore Extension at Cornelia and Belmont for Gas Line Conflict - The Contractor encountered a 4-inch gas line (not shown on drawings) on March 1, 2017 when excavating the bore pit at approximate Station 64+80. The gas line was marked and discovered during potholing to determine the exact location. The Construction Manager agreed to relocate the pit 20 feet away and extend the bore to mitigate the conflict. Agreed that the additional 20 linear feet of bore casing would be compensated at Contract Unit price of \$1,800 per linear foot. The Contractor resubmitted cost sheets (PCO # B5b) to support the agreed COR 013 cost of \$36,000.			\$36,000			

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 006 - Contract Bid Item Adjustment: Bid Item No. 22 Blow off Assemblies - The plans show a blow-off assembly located at the connection point of SW1B and SW1C. The blow-off at this location was not needed and was not installed. Therefore, this Bid Item is being adjusted to provide the City with a credit for one blow off assembly. Credit \$5,000.				(\$5,000)		
		RFP 007 - Contract Bid Item Adjustment: Bid Item No. 31 Temporary Trench Resurfacing - This change item deletes an unused portion of the temporary trench resurfacing work from the contract. Bid Item No 31 established a contract unit price with associated quantities and total cost. Substantial Completion for the project has been recorded as 1/12/2018, total quantities and payment amounts have been confirmed and necessary project work has been completed. Therefore, this Bid Item is being adjusted to provide credit to the City of \$7,578.				(\$7,578)		
		RFP 008 - Contract Bid Item Adjustment: Bid Item 34 Contractor's Pollution Liability Insurance - This change item deletes an unused portion of the Contractor's pollution liability insurance allowance. Substantial Completion for the project has been recorded as 1/12/2018 and total payment amounts have been determined. The necessary project work has been completed without expending the full allowance amount. Therefore, this Bid Item is being adjusted to provide credit to the City of \$8,430.25.				(\$8,430)		

Construction Contract Change Item Descriptions (CID)

Project Name: **RWTM Southwest Quadrant Project SW1C**
 Project Number: **TC00096C**
 Data Date: **12/31/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$4,198,175	\$4,043,175	1000
Approved Contract Change Orders:	\$269,718	\$269,718	0
		6.67%	
Current Contract Value:	\$4,467,893	\$4,312,893	1000

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Total			\$269,718	0	\$10,293	\$25,083	\$0	287
Change Order Requests								
Claims	Claims	Included in Draft CCO 002						
Requests for Proposal								
Credit Disputes	Credit Disputes						TBD	
Work Change Directives								
None								
Change Orders								
CCO_001	Contract Change Order No 1	RFP 001.1 - After award of the construction contract, high-speed rail development plans within the City were identified that were in conflict with the planned future project route of the recycled water pipeline feed to downtown Fresno. The future downtown design route for the recycled water pipeline was therefore changed, resulting in increased pipe size for a majority of the SW1C piping within Roeding Park. The redesigned SW1C pipeline also included additional recycled water service connection assemblies inside Roeding Park, on Parkway Drive, and along Belmont Avenue to accommodate additional future users identified during the redesign time frame. RFP 002 - Caltrans was identified as a future user for recycled water service at the Highway 99 crossing location after award of the construction contract. A recycled water service connection assembly was added to the work to accommodate planned future Caltrans use. RFP 003 - The project work included two recycled water fire hydrants. After award of the construction contract, State Water Resources Control Board permitting requirements were identified, including requirements for the City to obtain approval of a Title 22 Engineering Report from the Division of Drinking Water. The required Engineering Report to demonstrate firefighting department training and protocols associated with the use of recycled water was not in place so the City directed the Contractor to change the fire hydrant assemblies to commercial truck fill stations in order to avoid permit compliance issues.	\$246,512					
			\$19,193					
			\$4,013					
Draft CCO 002	Draft Contract Change Order No 2	COR 001 Petro Mat Removal - It was revealed during construction, that existing asphalt sections of Belmont Ave. had consisted of a previous overlay of a Petro Mat underlayer. Some areas of Petro Mat deterioration was shedding the remaining layer of asphalt. The City directed Contractor to remove and/or torch any loose delaminated material and continue with overlay asphalt application as originally specified. RFP 005 Additional Recycled Water Service Stub - Beth Israel Cemetary on Belmont Avenue was identified as a future user for recycled water after award of the construction contract. A buried recycled water pipe connection stub was added to the work to accommodate future piping into the cemetary. RFP 006 - Contract Bid Item Adjustment: Bid Item No. 25 Insulating Joint Test Station - The plans show an insulating joint test station located at the connection point of SW1B and SW1C. The test station at this location was not needed and not installed. Therefore, this Bid Item is being adjusted to provide the City with a credit for one insulating joint test station. Credit \$1440.			\$2,798			
					\$7,495			3
						(\$1,440)		

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		RFP 007 - Contract Bid Item Adjustment: Bid Item No. 28 Temporary Trench Resurfacing - This change item deletes an unused portion of the temporary trench resurfacing work from the contract. Bid Item No 28 established a contract unit price with associated quantities and total cost. Substantial Completion for the project has been recorded as 9/19/2017, total quantities and payment amounts have been confirmed and necessary project work has been completed. Therefore, this Bid Item is being adjusted to provide credit to the City of \$60,530.				(\$60,530)		
		RFP 008 - Contract Bid Item Adjustment: Bid Item No. 31 Contractor's Pollution Liability Insurance - This change item deletes an unused portion of the Contractor's pollution liability insurance allowance. Substantial Completion for the project has been recorded as 9/19/2017 and total payment amounts have been determined. The necessary project work has been completed without expending the full allowance amount. Therefore, this Bid Item is being adjusted to provide credit to the City of \$9,294.40.				(\$9,294)		
		RFP 009 Bid Item No. 2 Mediator - Credit for unused Mediator allowance. Credit \$23,652.50.				(\$23,653)		
		RFP 010 Bid Item No. 32 Supplemental Work - This item was established for completion of authorized work in accordance with Section 3, "Changes in Work", of the Standard Specifications. Substantial Completion for the project has been recorded as 9/19/2017. Total quantities have been installed, payment amounts have been confirmed, and necessary project work has been completed. Therefore, this Bid Item is being deleted from the Contract. Credit \$155,000.				(\$155,000)		
		Compensation for claims filed by Contractor as detailed in the attached Mediator's proposal.				\$275,000		284

Construction Contract Change Item Descriptions (CID)

Project Name: **RWTM Southwest Quadrant Project SW1C2**
 Project Number: **TC00096**
 Data Date: **12/31/18**



	Actual	Exclude Supp Bud	Duration (Days)
Original Contract Value:	\$7,682,290	\$7,382,290	1000
Approved Contract Change Orders:	\$37,781	\$37,781	0
		0.51%	
Current Contract Value:	\$7,720,071	\$7,420,071	1000

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
Total			\$37,781	\$0	\$154,605	\$0	\$0	0
Change Order Requests								
None								
Requests for Proposal								
None								
Work Change Directives								
None								
Change Orders								
CCO 001	Contract Change Order No. 1	WCD 001 - In order to manage groundwater encountered at lower excavation depths in the trench on Nielsen east of Hughes, the Contractor was directed to install crushed rock in the bottom of the trench as needed, followed by placement of CLSM in the pipe bedding zone. Water was pumped out of the trench as necessary until the RWTM was back on grade where groundwater was no longer present. WCD 002.1 - An AT&T duct located at B Street and Amador was found to be in conflict with the 8" RWTM alignment. The Contractor shall perform additional excavation and utilize fittings to divert the 8" RWTM under the duct bank then immediately come back up to line elevation. WCD 003 - During excavation, the existing 42" sewer main in Fruit Ave. was found to encroach upon the 12" RWTM trench zone. Alignment of the 12" RWTM was shifted to the east for approximately 150 feet to avoid conflict with the 42" sewer main while maintaining adequate clearance from the adjacent 3" gas line. This WCD shall cover the costs for additional potholing performed to identify the limits of the conflict in determining the solution, as well as any minor additional efforts associated with the proximity of the sewer main with the RWTM trench zone.	\$14,151					
			\$13,761					
			\$9,870					
DRAFT CCO 002	Draft Contract Change Order No. 2	COR 001 - On January 17, 2018, the City was notified by the Federal Aviation Administration (FAA) to immediately cease any work along Whitesbridge Ave. located near the Chandler Executive Airport due to a lack of an approved permit. The City immediately began the process of applying for the required permits per the FAA's request. On March 20, the FAA approved and issued the necessary permits for the Contractor to resume work along Whitesbridge Ave. During the two month permit application process, the Contractor was not allowed to enter the restricted work zone and could not remove the previously installed traffic control. COR 002 - A concrete base pavement was discovered below the top asphalt layer along the RWTM alignment on Whitesbridge Ave. near Thorne. There was no evidence of the existing concrete base pavement in the bid documents and the concrete could not have reasonably been foreseen by the Contractor. Additional work to remove the concrete pavement was required, including saw cutting and hauling of the existing concrete. COR 005 - Furnish and install eleven advanced detector loops at Whitesbridge and Roeding. COR 006 - During excavation for the RWTM at the intersection of Whitesbridge and West Ave., the Contractor encountered a previously installed AT&T duct at Sta. 376+58. The AT&T duct was neither marked nor shown on the plans. In order to preserve the duct and provide the required one foot of separation between the duct and the 18" RWTM, two additional 45 degree bends were installed. Additional excavation was required in order to install the bends. COR 007 - During excavation for the RWTM at Hughes Ave. and Dan Ronquillo Drive, the Contractor struck and damaged a street light conduit at Sta. 272+68. The conduit was unmarked and not shown on the plans.			\$44,404			
					\$37,762			
					\$7,030			
					\$5,859			
					\$3,448			

Construction Contract Change Item Descriptions (CID)

APPROVED AND PENDING CHANGES								
Change Item #	Change Item Title	Change Item Description	Approved Contract Change Orders (COs)	Approved Additional Time (Days)	Approved Changes Against Current Supplemental Task Budget	Pending Changes	Potential Changes	Potential or Pending Additional Time (Days)
		WCD 005.2 - Potholing data along Hughes Avenue revealed several utilities in conflict with the 24" RWTM alignment. Revisions for sheets 5, 7, and 8 were issued as a result of the utility conflicts. Due to vertical alignment changes, the Contractor performed additional excavation and backfill.			\$23,434			
		WCD 005.3 - Potholing data along Whitesbridge Avenue revealed several utilities in conflict with the 24" RWTM alignment. Revisions for sheets 10,11, 12, and 13 were issued as a result of the utility conflicts. Due to vertical alignment changes, the Contractor performed additional excavation and backfill.			\$22,783			
		WCD 006 - Plan revisions for sheet 10 were issued on 02/12/2018 for WCD 5.3. Due to changes in the vertical alignment of the RWTM, an additional blow-off was required at Sta. 350+50.			\$9,500			
		WCD 007 - The existing road section on the west side of the trench resoration zone on Hughes, south of HWY 180 (Sta. 279+00 through 283+00) was of insufficient thickness to build the overlay top course for trench restoration. The Contractor performed extra work removing and replacing the existing overlay with 4" of new AC.			\$9,008			
		RFP 003 - Per the Contract, the Contractor was responsible for providing a construction trailer for the duration of the project. The trailer was provided, however, was not complete. Items missing from the trailer include utilities, HVAC, internet access, and parking area. The Contractor is providing a credit back to the City for the items not provided.			(\$8,623)			